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# **Subarea 29 Specific Plan Amendment**

## **AIR QUALITY IMPACT ANALYSIS**

### **CITY OF ONTARIO**

PREPARED BY:

Haseeb Qureshi  
hqureshi@urbanxroads.com

Michael Tirohn  
mtirohn@urbanxroads.com

Ali Dadabhoy  
adadabhoy@urbanxroads.com

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## LIST OF ABBREVIATED TERMS

%	Percent
°F	Degrees Fahrenheit
(1)	Reference
µg/m <sup>3</sup>	Microgram per Cubic Meter
<i>1992 CO Plan</i>	<i>1992 Federal Attainment Plan for Carbon Monoxide</i>
<i>1993 CEQA Handbook</i>	<i>SCAQMD's CEQA Air Quality Handbook (1993)</i>
<i>2016-2040 RTP/SCS</i>	<i>2016-2040 Regional Transportation Plan/Sustainable Communities Strategy</i>
AB 2595	California Clean Air Act
ADT	Average Daily Trips
AQIA	Air Quality Impact Analysis
AQMP	Air Quality Management Plan
Ave.	Avenue
BACT	Best Available Control Technology
BC	Black Carbon
Blvd.	Boulevard
<i>Brief</i>	<i>Brief of Amicus Curiae by the SCAQMD in the Friant Ranch Case</i>
C <sub>2</sub> Cl <sub>4</sub>	Perchloroethylene
C <sub>4</sub> H <sub>6</sub>	1,3-butadiene
C <sub>6</sub> H <sub>6</sub>	Benzene
C <sub>2</sub> H <sub>3</sub> Cl	Vinyl Chloride
C <sub>2</sub> H <sub>4</sub> O	Acetaldehyde
CAA	Federal Clean Air Act
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emissions Estimator Model
CalEPA	California Environmental Protection Agency
CALGreen	California Green Building Standards Code
CAP	Climate Action Plan
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CCR	California Code of Regulations
CEC	California Energy Commission
CEQA	California Environmental Quality Act
<i>CEQA Guidelines</i>	<i>2019 CEQA Statute and Guidelines</i>
CH <sub>2</sub> O	Formaldehyde

City	City of Ontario
CO	Carbon Monoxide
COH	Coefficient of Haze
COHb	Carboxyhemoglobin
Cr(VI)	Chromium
CTP	Clean Truck Program
DPM	Diesel Particulate Matter
DRRP	Diesel Risk Reduction Plan
EC	Elemental Carbon
EIR	Environmental Impact Report
EMFAC	EMissions FACtor Model
EPA	Environmental Protection Agency
ETW	Equivalent Test Weight
FAR	Floor Area Ratio
GHG	Greenhouse Gas
GVWR	Gross Vehicle Weight Rating
H <sub>2</sub> S	Hydrogen Sulfide
HDT	Heavy Duty Trucks
HHDT	Heavy-Heavy-Duty Trucks
HI	Hazard Index
hp	Horsepower
Hwy.	Highway
ITE	Institute of Transportation Engineers
lbs	Pounds
lbs/day	Pounds Per Day
LDA	Light Duty Auto
LDT1/LDT2	Light-Duty Trucks
LHDT1/LHDT2	Light-Heavy-Duty Trucks
LST	Localized Significance Threshold
<i>LST Methodology</i>	<i>Final Localized Significance Threshold Methodology</i>
MATES	Multiple Air Toxics Exposure Study
MCY	Motorcycles
MDV	Medium-Duty Vehicles
MHDT	Medium-Heavy-Duty Trucks
MICR	Maximum Individual Cancer Risk
MM	Mitigation Measures
mph	Miles Per Hour
MWEL0	California Department of Water Resources' Model Water

	Efficient
N <sub>2</sub>	Nitrogen
N <sub>2</sub> O	Nitrous Oxide
NAAQS	National Ambient Air Quality Standards
NO	Nitric Oxide
NO <sub>2</sub>	Nitrogen Dioxide
NO <sub>x</sub>	Nitrogen Oxides
O <sub>2</sub>	Oxygen
O <sub>3</sub>	Ozone
O <sub>2</sub> Deficiency	Chronic Hypoxemia
OBD-II	On-Board Diagnostic
ODC	Ozone Depleting Compounds
Pb	Lead
PCE	Passenger Car Equivalent
Pkwy.	Parkway
PM <sub>10</sub>	Particulate Matter 10 microns in diameter or less
PM <sub>2.5</sub>	Particulate Matter 2.5 microns in diameter or less
POLA	Port of Los Angeles
POLB	Port of Long Beach
ppm	Parts Per Million
Project	Subarea 29 Specific Plan Amendment
RECLAIM	Regional Clean Air Incentives Market
RFG-2	Reformulated Gasoline Regulation
ROG	Reactive Organic Gases
RSPA	Renaissance Specific Plan Area
SCAB	South Coast Air Basin
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
sf	Square Feet
SIPs	State Implementation Plans
SO <sub>2</sub>	Sulfur Dioxide
SO <sub>4</sub>	Sulfates
SO <sub>x</sub>	Sulfur Oxides
SoCalGas	The Southern California Gas Company
SRA	Source Receptor Area
St.	Street
TAC	Toxic Air Contaminant
Title 24	California Building Code



TITLE I	Non-Attainment Provisions
TITLE II	Mobile Sources Provisions
TSF	Thousand Square Feet
UFP	Ultrafine Particles
URBEMIS	URBan EMISsions
VMT	Vehicle Miles Traveled
VOC	Volatile Organic Compounds
vph	Vehicles Per Hour

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## EXECUTIVE SUMMARY

### ES.1 PROPOSED PROJECT

The Subarea 29 Specific Plan area is located in the City of Ontario, in San Bernardino County. The proposed expansion area, consisting of Planning Areas (PAs) 32 through 34, is bound by Eucalyptus Avenue to the north, Haven Avenue to the west, Mill Creek Avenue to the east, and Bellegrave Avenue to the south. PAs 30 and 31 are bound by Eucalyptus Avenue to the north, Haven Avenue to the east, Parkview Street to the south, and existing development in the Subarea 29 Specific Plan area to the west.

The proposed Project would expand the Subarea 29 Specific Plan area with three new PAs (32, 33 and 34) east of the existing Specific Area to be developed with residential and school uses and would increase the residential development capacity in existing PAs 30 and 31 and would collectively allow for the development of up to 1,470 single-family detached and attached residential dwelling units as well as a middle school. The Subarea 29 Specific Plan Amendment Area includes PA 30 through PA 34 and is referred to as the Amendment Area or Project site.

### ES.2 SUMMARY OF FINDINGS

The results of this *Subarea 29 Specific Plan Amendment Air Quality Impact Analysis (AQIA)* are summarized below based on the significance criteria in Section 3 of this report consistent with Appendix G of the *California Environmental Quality Act (CEQA) Guidelines (CEQA Guidelines)* (1). Table ES-1 shows the findings of significance for each potential air quality impact under CEQA before and after any required mitigation measures (MM) described below.

**TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS**

Analysis	Report Section	Significance Findings	
		Unmitigated	Mitigated
Regional Construction Emissions	3.4	<i>Potentially Significant</i>	<i>Less Than Significant</i>
Localized Construction Emissions	3.7	<i>Less Than Significant</i>	<i>n/a</i>
Regional Operational Emissions	3.5	<i>Potentially Significant</i>	<i>Significant and Unavoidable</i>
Localized Operational Emissions	3.6	<i>Less Than Significant</i>	<i>n/a</i>
CO "Hot Spot" Analysis	3.7	<i>Less Than Significant</i>	<i>n/a</i>
Air Quality Management Plan	3.8	<i>Potentially Significant</i>	<i>Significant and Unavoidable</i>

Analysis	Report Section	Significance Findings	
		Unmitigated	Mitigated
Sensitive Receptors	3.10	<i>Less Than Significant</i>	<i>n/a</i>
Odors	3.11	<i>Less Than Significant</i>	<i>n/a</i>
Cumulative Impacts	3.12	<i>Potentially Significant</i>	<i>Significant and Unavoidable</i>

### ES.3 REGULATORY REQUIREMENTS

There are numerous requirements that development projects must comply with by law, and that were put in place by federal, State, and local regulatory agencies for the improvement of air quality.

Any operation or activity that might cause the emission of any smoke, fly ash, dust, fumes, vapors, gases, or other forms of air pollution, which can cause damage to human health, vegetation, or other forms of property, or can cause excessive soiling on any other parcel shall conform to the requirements of the South Coast Air Quality Management District (SCAQMD).

#### SCAQMD RULES

SCAQMD Rules that are currently applicable during construction activity for this Project are described below.

#### SCAQMD RULE 401

A person shall not discharge into the atmosphere from any single source of emission whatsoever any air contaminant for a period or periods aggregating more than three minutes in any 1 hour that is as dark or darker in shade as that designated No. 1 on the Ringelmann Chart, as published by the U.S. Bureau of Mines. This measure is not quantified in the modeling and has the potential to further reduce emissions beyond what is disclosed in the analysis.

#### SCAQMD RULE 402

A person shall not discharge from any source whatsoever such quantities of air contaminants or other material that cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or that endanger the comfort, repose, health, or safety of any such persons or the public, or that cause, or have a natural tendency to cause, injury or damage to business or property. The provisions of this rule do not apply to odors emanating from agricultural operations necessary for the growing of crops or the raising of fowl or animals. This measure is not quantified in the modeling and has the potential to further reduce emissions beyond what is disclosed in the analysis.

### **SCAQMD RULE 403**

This rule is intended to reduce the amount of particulate matter entrained in the ambient air as a result of anthropogenic (human-made) fugitive dust sources by requiring actions to prevent and reduce fugitive dust emissions. Rule 403 applies to any activity or human-made condition capable of generating fugitive dust and requires best available control measures to be applied to earth moving and grading activities. Credit for this measure is quantified in the modeling.

### **SCAQMD RULE 445**

The purpose of this rule is to reduce the amount of particulate matter from wood-burning devices, including stoves and fireplaces. In accordance with Rule 445, no wood-burning devices will be installed in any dwelling units. Credit for this measure is quantified in the modeling.

### **SCAQMD RULE 1113**

This rule serves to limit the Volatile Organic Compound (VOC) content of architectural coatings used on projects in the SCAQMD. Any person who supplies, sells, offers for sale, or manufactures any architectural coating for use on projects. Credit for this measure is quantified in the modeling.

### **SCAQMD RULE 1301**

This rule is intended to provide that pre-construction review requirements to ensure that new or relocated facilities do not interfere with progress in attainment of the National Ambient Air Quality Standards (NAAQS), while future economic growth within the SCAQMD is not unnecessarily restricted. The specific air quality goal is to achieve no net increases from new or modified permitted sources of nonattainment air contaminants or their precursors. Rule 1301 also limits emission increases of ammonia, and Ozone Depleting Compounds (ODCs) from new, modified or relocated facilities by requiring the use of Best Available Control Technology (BACT). This measure is not quantified in the modeling and has the potential to further reduce emissions beyond what is disclosed in the analysis.

## **ES.4 MITIGATION MEASURES**

### **ES.4.1 CONSTRUCTION-SOURCE MMs**

#### **THE ONTARIO PLAN MMs**

Pursuant to MM 3-1 as summarized in the Ontario Plan 2050 SEIR, if construction-related criteria air pollutants are determined to have the potential to exceed the South Coast AQMD-adopted thresholds of significance, the City of Ontario Building Department shall require feasible mitigation measures to reduce air quality emissions. As such, the following applicable mitigation measures from the Ontario Plan 2050 SEIR are required to reduce potentially significant emissions from construction associated with VOCs and NO<sub>x</sub>, and are restated as MM-1:

- Using construction equipment rated by the United States Environmental Protection Agency as having Tier 4 interim or higher exhaust emission limits.
- Ensuring construction equipment is properly serviced and maintained to manufacturer's standards.

- Limiting nonessential idling of construction equipment to no more than five consecutive minutes.
- Using Super-Compliant VOC paints for coating of architectural surfaces whenever possible. A list of Super-Compliant architectural coating manufacturers can be found on the South Coast Air Quality Management District's website.

#### **SUBAREA 29 EIR MMs**

The following measures are consistent with those recommended in the Subarea 29 Specific Plan EIR:

##### **MM 2**

During construction, mobile construction equipment will be properly maintained at an offsite location, which includes proper tuning and timing of engines. Equipment maintenance records and equipment design specification data sheets shall be kept on-site during construction.

##### **MM 3**

During construction, all contractors shall be advised not to idle construction equipment on site for more than ten minutes.

##### **MM 4**

Construction parking will be configured in order to minimize traffic interference.

#### **ES.4.2 OPERATION-SOURCE MMs**

#### **SUBAREA 29 EIR MMs**

##### **MM 5**

Local transit agencies shall be contacted to determine bus routing in the project area that can accommodate bus stops at the project access points and the project shall provide bus passenger benches and shelters at these project access points.

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# 1 INTRODUCTION

This report presents the results of the AQIA prepared by Urban Crossroads, Inc., for the proposed Subarea 29 Specific Plan Amendment (Project). The purpose of this AQIA is to evaluate the potential impacts to air quality associated with construction and operation of the Project and recommend measures to mitigate impacts considered potentially significant in comparison to thresholds established by the SCAQMD.

## 1.1 SITE LOCATION

The Subarea 29 Specific Plan Amendment area is located in the City of Ontario, in San Bernardino County. The proposed expansion area, consisting of Planning Areas (PAs) 32 through 34, is bound by Eucalyptus Avenue to the north, Haven Avenue to the west, Mill Creek Avenue to the east, and Bellegrave Avenue to the south. PAs 30 and 31 are bound by Eucalyptus Avenue to the north, Haven Avenue to the east, Parkview Street to the south, and existing development in the Subarea 29 Specific Plan area to the west. The location of the Subarea 29 Specific Plan Amendment area is shown on Exhibit 1-A.

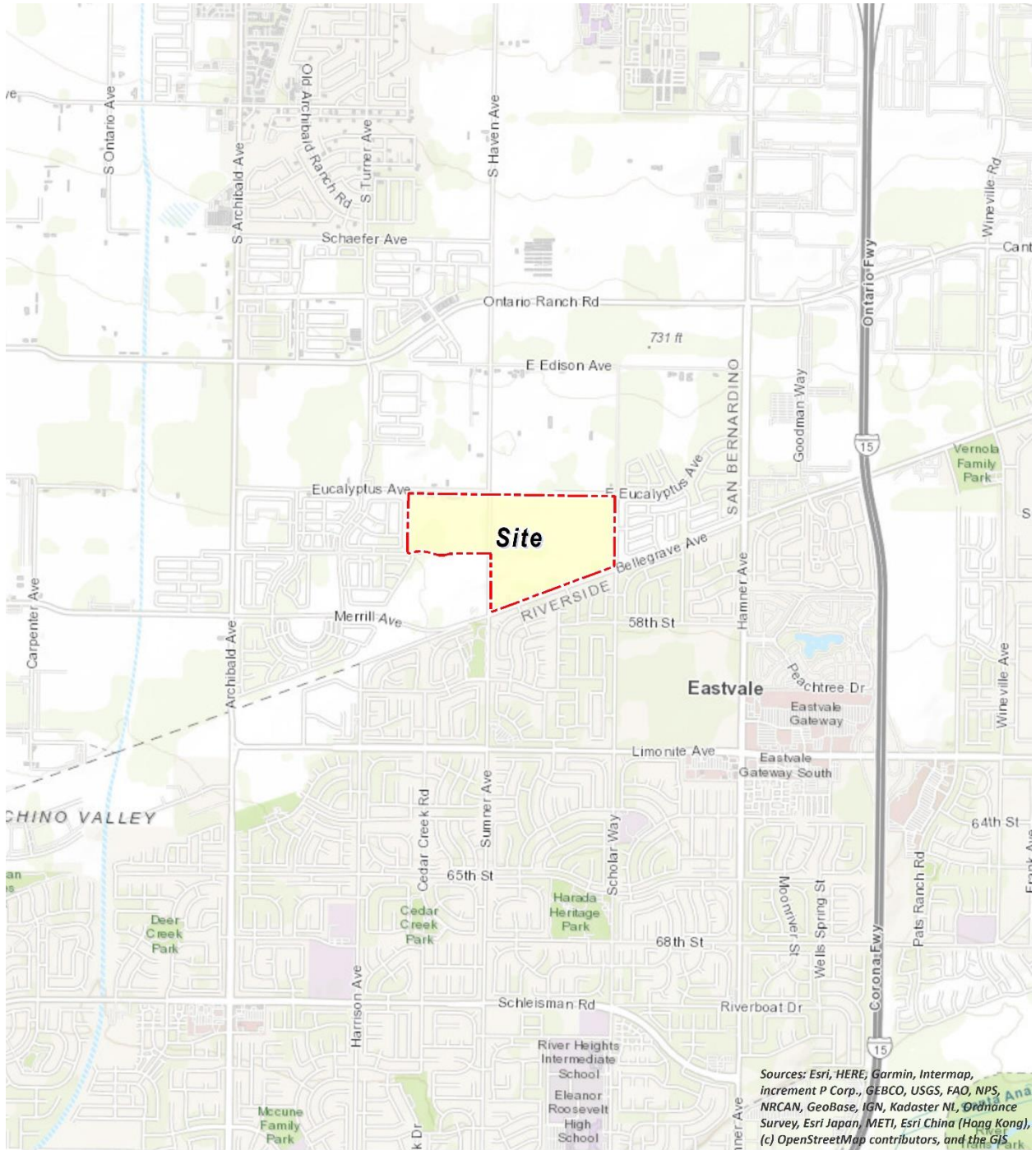
## 1.2 PROJECT DESCRIPTION

The proposed Project would expand the Subarea 29 Specific Plan area with three new PAs (32, 33 and 34) east of the existing Specific Area to be developed with residential and school uses and would increase the residential development capacity in existing PAs 30 and 31. Collectively, the proposed Project would allow for the development of up to 1,470 additional single-family detached and attached residential dwelling units in PAs 30 through 33, and a middle school in PA 34, as shown on Exhibit 1-B. For purposes of this air quality analysis, it is anticipated that Project Buildout would occur in 2025.

Additionally, the proposed Project would include offsite improvements to surrounding roadways, including street and underground improvements to Haven Avenue, Bellegrave Avenue, Eucalyptus Avenue, and Mill Creek Avenue.



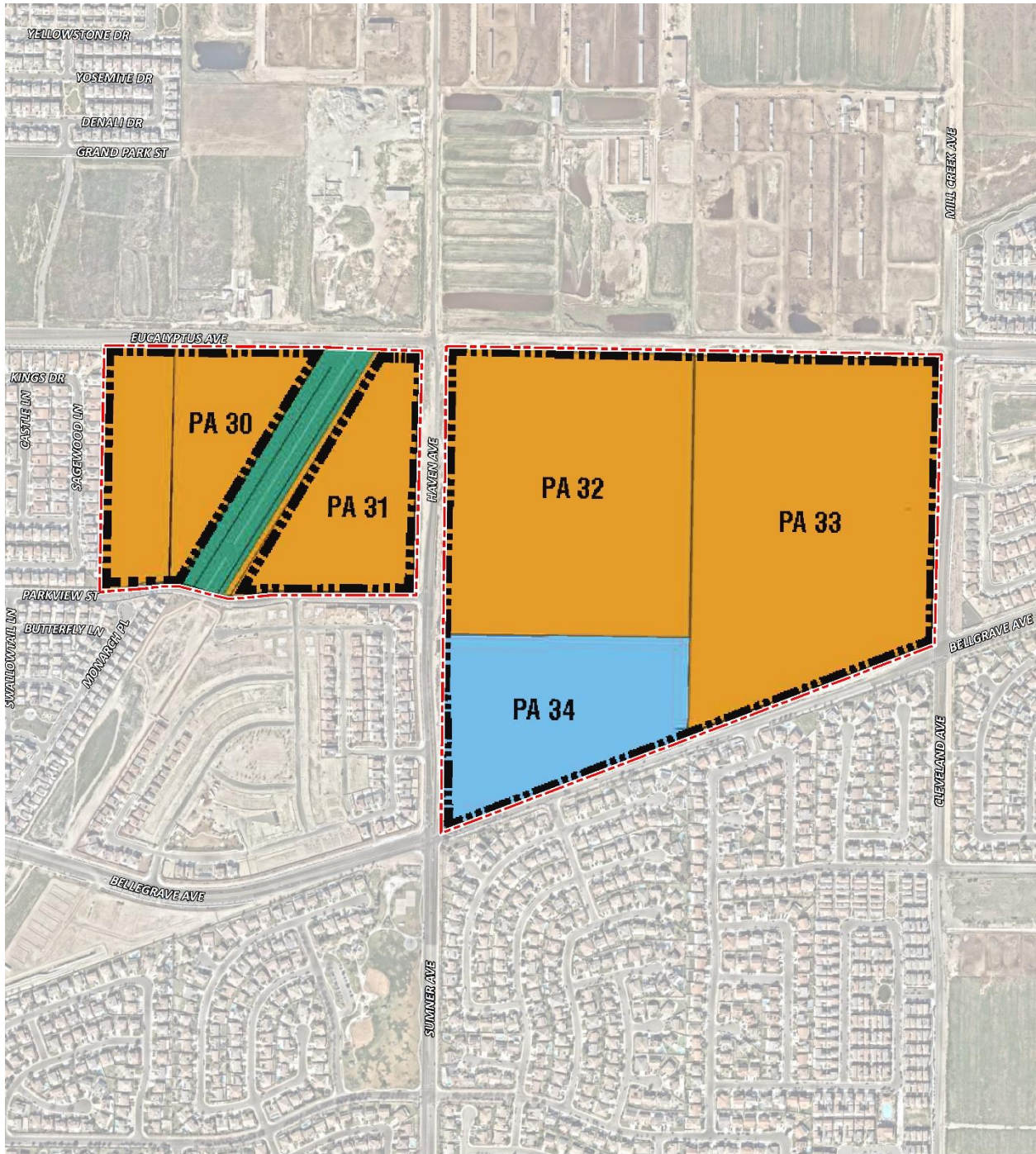
EXHIBIT 1-A: LOCATION MAP



**LEGEND:**  
N  
[Red dashed box] Site Boundary

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS

EXHIBIT 1-B: LAND USE PLAN



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## 2 AIR QUALITY SETTING

This section provides an overview of the existing air quality conditions in the Project area and region.

### 2.1 SOUTH COAST AIR BASIN (SCAB)

The Project site is located in the SCAB within the jurisdiction of SCAQMD (2). The SCAQMD was created by the 1977 Lewis-Presley Air Quality Management Act, which merged four county air pollution control bodies into one regional district. Under the Act, the SCAQMD is responsible for bringing air quality in areas under its jurisdiction into conformity with federal and state air quality standards. As previously stated, the Project site is located within the SCAB, a 6,745-square mile subregion of the SCAQMD, which includes portions of Los Angeles, Riverside, and San Bernardino Counties, and all of Orange County.

The SCAB is bounded by the Pacific Ocean to the west and the San Gabriel, San Bernardino, and San Jacinto Mountains to the north and east and includes all of Orange County as well as the non-desert portions of San Bernardino, Los Angeles, and Riverside Counties.

### 2.2 REGIONAL CLIMATE

The regional climate has a substantial influence on air quality in the SCAB. In addition, the temperature, wind, humidity, precipitation, and amount of sunshine influence the air quality.

The annual average temperatures throughout the SCAB vary from the low to middle 60s degrees Fahrenheit (°F). Due to a decreased marine influence, the eastern portion of the SCAB shows greater variability in average annual minimum and maximum temperatures. January is the coldest month throughout the SCAB, with average minimum temperatures of 47°F in downtown Los Angeles and 36°F in San Bernardino. All portions of the SCAB have recorded maximum temperatures above 100°F.

Although the climate of the SCAB can be characterized as semi-arid, the air near the land surface is quite moist on most days because of the presence of a marine layer. This shallow layer of sea air is an important modifier of SCAB climate. Humidity restricts visibility in the SCAB, and the conversion of sulfur dioxide (SO<sub>2</sub>) to sulfates (SO<sub>4</sub>) is heightened in air with high relative humidity. The marine layer provides an environment for that conversion process, especially during the spring and summer months. The annual average relative humidity within the SCAB is 71% along the coast and 59% inland. Since the ocean effect is dominant, periods of heavy early morning fog are frequent and low stratus clouds are a characteristic feature. These effects decrease with distance from the coast.

More than 90% of the SCAB's rainfall occurs from November through April. The annual average rainfall varies from approximately nine inches in Riverside to fourteen inches in downtown Los Angeles. Monthly and yearly rainfall totals are extremely variable. Summer rainfall usually consists of widely scattered thunderstorms near the coast and slightly heavier shower activity in the eastern portion of the SCAB with frequency being higher near the coast.

Due to its generally clear weather, about three-quarters of available sunshine is received in the SCAB. The remaining one-quarter is absorbed by clouds. The ultraviolet portion of this abundant radiation is a key factor in photochemical reactions. On the shortest day of the year there are approximately 10 hours of possible sunshine, and on the longest day of the year there are approximately 14½ hours of possible sunshine.

The importance of wind to air pollution is considerable. The direction and speed of the wind determines the horizontal dispersion and transport of the air pollutants. During the late autumn to early spring rainy season, the SCAB is subjected to wind flows associated with the traveling storms moving through the region from the northwest. This period also brings five to ten periods of strong, dry offshore winds, locally termed “Santa Anas” each year. During the dry season, which coincides with the months of maximum photochemical smog concentrations, the wind flow is bimodal, typified by a daytime onshore sea breeze and a nighttime offshore drainage wind. Summer wind flows are created by the pressure differences between the relatively cold ocean and the unevenly heated and cooled land surfaces that modify the general northwesterly wind circulation over southern California. Nighttime drainage begins with the radiational cooling of the mountain slopes. Heavy, cool air descends the slopes and flows through the mountain passes and canyons as it follows the lowering terrain toward the ocean. Another characteristic wind regime in the SCAB is the “Catalina Eddy,” a low level cyclonic (counterclockwise) flow centered over Santa Catalina Island which results in an offshore flow to the southwest. On most spring and summer days, some indication of an eddy is apparent in coastal sections.

In the SCAB, there are two distinct temperature inversion structures that control vertical mixing of air pollution. During the summer, warm high-pressure descending (subsiding) air is undercut by a shallow layer of cool marine air. The boundary between these two layers of air is a persistent marine subsidence/inversion. This boundary prevents vertical mixing which effectively acts as an impervious lid to pollutants over the entire SCAB. The mixing height for the inversion structure is normally situated 1,000 to 1,500 feet above mean sea level.

A second inversion-type forms in conjunction with the drainage of cool air off the surrounding mountains at night followed by the seaward drift of this pool of cool air. The top of this layer forms a sharp boundary with the warmer air aloft and creates nocturnal radiation inversions. These inversions occur primarily in the winter when nights are longer and onshore flow is weakest. They are typically only a few hundred feet above mean sea level. These inversions effectively trap pollutants, such as NO<sub>x</sub> and CO from vehicles, as the pool of cool air drifts seaward. Winter is therefore a period of high levels of primary pollutants along the coastline.

### **2.3 WIND PATTERNS AND PROJECT LOCATION**

The distinctive climate of the Project area and the SCAB is determined by its terrain and geographical location. The SCAB is located in a coastal plain with connecting broad valleys and low hills, bounded by the Pacific Ocean in the southwest quadrant with high mountains forming the remainder of the perimeter.

Wind patterns across the south coastal region are characterized by westerly and southwesterly onshore winds during the day and easterly or northeasterly breezes at night. Winds are

characteristically light although the speed is somewhat greater during the dry summer months than during the rainy winter season.

## 2.4 CRITERIA POLLUTANTS

Criteria pollutants are pollutants that are regulated through the development of human health based and/or environmentally based criteria for setting permissible levels. Criteria pollutants, their typical sources, and health effects are identified below (3):

**TABLE 2-1: CRITERIA POLLUTANTS**

Criteria Pollutant	Description	Sources	Health Effects
CO	CO is a colorless, odorless gas produced by the incomplete combustion of carbon-containing fuels, such as gasoline or wood. CO concentrations tend to be the highest during the winter morning, when little to no wind and surface-based inversions trap the pollutant at ground levels. Because CO is emitted directly from internal combustion engines, unlike ozone (O <sub>3</sub> ), motor vehicles operating at slow speeds are the primary source of CO in the SCAB. The highest ambient CO concentrations are generally found near congested transportation corridors and intersections.	Any source that burns fuel such as automobiles, trucks, heavy construction equipment, farming equipment and residential heating.	Individuals with a deficient blood supply to the heart are the most susceptible to the adverse effects of CO exposure. The effects observed include earlier onset of chest pain with exercise, and electrocardiograph changes indicative of decreased oxygen (O <sub>2</sub> ) supply to the heart. Inhaled CO has no direct toxic effect on the lungs but exerts its effect on tissues by interfering with O <sub>2</sub> transport and competing with O <sub>2</sub> to combine with hemoglobin present in the blood to form carboxyhemoglobin (COHb). Hence, conditions with an increased demand for O <sub>2</sub> supply can be adversely affected by exposure to CO. Individuals most at risk include fetuses, patients with diseases involving heart and blood vessels, and patients with chronic hypoxemia (O <sub>2</sub> deficiency) as seen at high altitudes.
SO <sub>2</sub>	SO <sub>2</sub> is a colorless, extremely irritating gas or liquid. It enters the atmosphere as a pollutant mainly as a result of burning high sulfur-content fuel oils and coal and from chemical processes	Coal or oil burning power plants and industries, refineries, diesel engines	A few minutes of exposure to low levels of SO <sub>2</sub> can result in airway constriction in some asthmatics, all of whom are sensitive to its effects. In asthmatics, increase in

Criteria Pollutant	Description	Sources	Health Effects
	<p>occurring at chemical plants and refineries. When SO<sub>2</sub> oxidizes in the atmosphere, it forms SO<sub>4</sub>. Collectively, these pollutants are referred to as sulfur oxides (SO<sub>x</sub>).</p>		<p>resistance to air flow, as well as reduction in breathing capacity leading to severe breathing difficulties, are observed after acute exposure to SO<sub>2</sub>. In contrast, healthy individuals do not exhibit similar acute responses even after exposure to higher concentrations of SO<sub>2</sub>.</p> <p>Animal studies suggest that despite SO<sub>2</sub> being a respiratory irritant, it does not cause substantial lung injury at ambient concentrations. However, very high levels of exposure can cause lung edema (fluid accumulation), lung tissue damage, and sloughing off of cells lining the respiratory tract.</p> <p>Some population-based studies indicate that the mortality and morbidity effects associated with fine particles show a similar association with ambient SO<sub>2</sub> levels. In these studies, efforts to separate the effects of SO<sub>2</sub> from those of fine particles have not been successful. It is not clear whether the two pollutants act synergistically, or one pollutant alone is the predominant factor.</p>
NO <sub>x</sub>	<p>NO<sub>x</sub> consist of nitric oxide (NO), nitrogen dioxide (NO<sub>2</sub>) and nitrous oxide (N<sub>2</sub>O) and are formed when nitrogen (N<sub>2</sub>) combines with O<sub>2</sub>. Their lifespan in the atmosphere ranges from one to seven days for nitric oxide and nitrogen dioxide, to 170 years for nitrous oxide. NO<sub>x</sub> is typically created during</p>	<p>Any source that burns fuel such as automobiles, trucks, heavy construction equipment, farming equipment and residential heating.</p>	<p>Population-based studies suggest that an increase in acute respiratory illness, including infections and respiratory symptoms in children (not infants), is associated with long-term exposure to NO<sub>2</sub> at levels found in homes with gas stoves, which are higher than</p>

Criteria Pollutant	Description	Sources	Health Effects
	<p>combustion processes and are major contributors to smog formation and acid deposition. NO<sub>2</sub> is a criteria air pollutant and may result in numerous adverse health effects; it absorbs blue light, resulting in a brownish-red cast to the atmosphere and reduced visibility. Of the seven types of NO<sub>x</sub> compounds, NO<sub>2</sub> is the most abundant in the atmosphere. As ambient concentrations of NO<sub>2</sub> are related to traffic density, commuters in heavy traffic may be exposed to higher concentrations of NO<sub>2</sub> than those indicated by regional monitoring station.</p>		<p>ambient levels found in Southern California. Increase in resistance to air flow and airway contraction is observed after short-term exposure to NO<sub>2</sub> in healthy subjects. Larger decreases in lung functions are observed in individuals with asthma or chronic obstructive pulmonary disease (e.g., chronic bronchitis, emphysema) than in healthy individuals, indicating a greater susceptibility of these sub-groups.</p> <p>In animals, exposure to levels of NO<sub>2</sub> considerably higher than ambient concentrations result in increased susceptibility to infections, possibly due to the observed changes in cells involved in maintaining immune functions. The severity of lung tissue damage associated with high levels of O<sub>3</sub> exposure increases when animals are exposed to a combination of O<sub>3</sub> and NO<sub>2</sub>.</p>
O <sub>3</sub>	<p>O<sub>3</sub> is a highly reactive and unstable gas that is formed when VOCs and NO<sub>x</sub>, both byproducts of internal combustion engine exhaust, undergo slow photochemical reactions in the presence of sunlight. O<sub>3</sub> concentrations are generally highest during the summer months when direct sunlight, light wind, and warm temperature conditions are favorable to the formation of this pollutant.</p>	<p>Formed when reactive organic gases (ROG) and NO<sub>x</sub> react in the presence of sunlight. ROG sources include any source that burns fuels, (e.g., gasoline, natural gas, wood, oil) solvents, petroleum processing and storage and pesticides.</p>	<p>Individuals exercising outdoors, children, and people with preexisting lung disease, such as asthma and chronic pulmonary lung disease, are considered to be the most susceptible sub-groups for O<sub>3</sub> effects. Short-term exposure (lasting for a few hours) to O<sub>3</sub> at levels typically observed in Southern California can result in breathing pattern changes, reduction of breathing capacity, increased susceptibility to infections, inflammation of the lung tissue, and some immunological changes.</p>



Criteria Pollutant	Description	Sources	Health Effects
			<p>Elevated O<sub>3</sub> levels are associated with increased school absences. In recent years, a correlation between elevated ambient O<sub>3</sub> levels and increases in daily hospital admission rates, as well as mortality, has also been reported. An increased risk for asthma has been found in children who participate in multiple outdoor sports and reside in communities with high O<sub>3</sub> levels.</p> <p>O<sub>3</sub> exposure under exercising conditions is known to increase the severity of the responses described above. Animal studies suggest that exposure to a combination of pollutants that includes O<sub>3</sub> may be more toxic than exposure to O<sub>3</sub> alone. Although lung volume and resistance changes observed after a single exposure diminish with repeated exposures, biochemical and cellular changes appear to persist, which can lead to subsequent lung structural changes.</p>
Particulate Matter	<p>PM<sub>10</sub>: A major air pollutant consisting of tiny solid or liquid particles of soot, dust, smoke, fumes, and aerosols. Particulate matter pollution is a major cause of reduce visibility (haze) which is caused by the scattering of light and consequently the significant reduction air clarity. The size of the particles (10 microns or smaller, about 0.0004 inches or less) allows them to easily enter the lungs where they may be deposited, resulting in adverse health effects. Additionally, it should be noted that PM<sub>10</sub> is</p>	<p>Sources of PM<sub>10</sub> include road dust, windblown dust and construction. Also formed from other pollutants (acid rain, NO<sub>x</sub>, SO<sub>x</sub>, organics). Incomplete combustion of any fuel.</p> <p>PM<sub>2.5</sub> comes from fuel combustion in motor vehicles, equipment, and industrial sources,</p>	<p>A consistent correlation between elevated ambient fine particulate matter (PM<sub>10</sub> and PM<sub>2.5</sub>) levels and an increase in mortality rates, respiratory infections, number and severity of asthma attacks and the number of hospital admissions has been observed in different parts of the United States and various areas around the world. In recent years, some studies have reported an association between long-term exposure to air pollution dominated by</p>

Criteria Pollutant	Description	Sources	Health Effects
	<p>considered a criteria air pollutant.</p> <p>PM<sub>2.5</sub>: A similar air pollutant to PM<sub>10</sub> consisting of tiny solid or liquid particles which are 2.5 microns or smaller (which is often referred to as fine particles). These particles are formed in the atmosphere from primary gaseous emissions that include SO<sub>4</sub> formed from SO<sub>2</sub> release from power plants and industrial facilities and nitrates that are formed from NO<sub>x</sub> release from power plants, automobiles, and other types of combustion sources. The chemical composition of fine particles highly depends on location, time of year, and weather conditions. PM<sub>2.5</sub> is a criteria air pollutant.</p>	<p>residential and agricultural burning. Also formed from reaction of other pollutants (acid rain, NO<sub>x</sub>, SO<sub>x</sub>, organics).</p>	<p>fine particles and increased mortality, reduction in lifespan, and an increased mortality from lung cancer.</p> <p>Daily fluctuations in PM<sub>2.5</sub> concentration levels have also been related to hospital admissions for acute respiratory conditions in children, to school and kindergarten absences, to a decrease in respiratory lung volumes in normal children, and to increased medication use in children and adults with asthma. Recent studies show lung function growth in children is reduced with long term exposure to particulate matter.</p> <p>The elderly, people with pre-existing respiratory or cardiovascular disease, and children appear to be more susceptible to the effects of high levels of PM<sub>10</sub> and PM<sub>2.5</sub>.</p>
VOC	<p>VOCs are hydrocarbon compounds (any compound containing various combinations of hydrogen and carbon atoms) that exist in the ambient air. VOCs contribute to the formation of smog through atmospheric photochemical reactions and/or may be toxic. Compounds of carbon (also known as organic compounds) have different levels of reactivity; that is, they do not react at the same speed or do not form O<sub>3</sub> to the same extent when exposed to photochemical processes. VOCs often have an odor, and some examples include gasoline, alcohol, and the solvents used in paints. Exceptions to the VOC designation include CO, carbon dioxide, carbonic acid, metallic carbides or carbonates, and</p>	<p>Organic chemicals are widely used as ingredients in household products. Paints, varnishes, and wax all contain organic solvents, as do many cleaning, disinfecting, cosmetic, degreasing and hobby products. Fuels are made up of organic chemicals. All of these products can release organic compounds while you are using them, and, to some</p>	<p>Breathing VOCs can irritate the eyes, nose, and throat, can cause difficulty breathing and nausea, and can damage the central nervous system as well as other organs. Some VOCs can cause cancer. Not all VOCs have all these health effects, though many have several.</p>

Criteria Pollutant	Description	Sources	Health Effects
	ammonium carbonate. VOCs are a criteria pollutant since they are a precursor to O <sub>3</sub> , which is a criteria pollutant. The terms VOC and ROG (see below) are used interchangeably.	degree, when they are stored.	
ROG	Similar to VOC, ROGs are also precursors in forming O <sub>3</sub> and consist of compounds containing methane, ethane, propane, butane, and longer chain hydrocarbons, which are typically the result of some type of combustion/decomposition process. Smog is formed when ROG and NO <sub>x</sub> react in the presence of sunlight. ROGs are a criteria pollutant since they are a precursor to O <sub>3</sub> , which is a criteria pollutant. The terms ROG and VOC (see previous) are used interchangeably.	Sources similar to VOCs.	Health effects similar to VOCs.
Lead (Pb)	Pb is a heavy metal that is highly persistent in the environment and is considered a criteria pollutant. In the past, the primary source of Pb in the air was emissions from vehicles burning leaded gasoline. The major sources of Pb emissions are ore and metals processing, particularly Pb smelters, and piston-engine aircraft operating on leaded aviation gasoline. Other stationary sources include waste incinerators, utilities, and lead-acid battery manufacturers. It should be noted that the Project does not include operational activities such as metal processing or Pb acid battery manufacturing. As such, the Project is not anticipated to generate a quantifiable amount of Pb emissions.	Metal smelters, resource recovery, leaded gasoline, deterioration of Pb paint.	<p>Fetuses, infants, and children are more sensitive than others to the adverse effects of Pb exposure. Exposure to low levels of Pb can adversely affect the development and function of the central nervous system, leading to learning disorders, distractibility, inability to follow simple commands, and lower intelligence quotient. In adults, increased Pb levels are associated with increased blood pressure.</p> <p>Pb poisoning can cause anemia, lethargy, seizures, and death; although it appears that there are no direct effects of Pb on the respiratory system. Pb can be stored in the bone from early age environmental exposure, and elevated blood Pb levels can occur due to breakdown of bone tissue during</p>

Criteria Pollutant	Description	Sources	Health Effects
			<p>pregnancy, hyperthyroidism (increased secretion of hormones from the thyroid gland) and osteoporosis (breakdown of bony tissue). Fetuses and breast-fed babies can be exposed to higher levels of Pb because of previous environmental Pb exposure of their mothers.</p>
Odor	<p>Odor means the perception experienced by a person when one or more chemical substances in the air come into contact with the human olfactory nerves (4).</p>	<p>Odors can come from many sources including animals, human activities, industry, natures, and vehicles.</p>	<p>Offensive odors can potentially affect human health in several ways. First, odorant compounds can irritate the eye, nose, and throat, which can reduce respiratory volume. Second, studies have shown that the VOCs that cause odors can stimulate sensory nerves to cause neurochemical changes that might influence health, for instance, by compromising the immune system. Finally, unpleasant odors can trigger memories or attitudes linked to unpleasant odors, causing cognitive and emotional effects such as stress.</p>

## 2.5 EXISTING AIR QUALITY

Existing air quality is measured at established SCAQMD air quality monitoring stations. Monitored air quality is evaluated in the context of ambient air quality standards. These standards are the levels of air quality that are considered safe, with an adequate margin of safety, to protect the public health and welfare. NAAQS and California Ambient Air Quality Standards (CAAQS) currently in effect are shown in Table 2-2 (5).

The determination of whether a region's air quality is healthful or unhealthful is determined by comparing contaminant levels in ambient air samples to the state and federal standards. At the time of this AQIA, the most recent state and federal standards were updated by CARB on May 4, 2016, as presented in Table 2-2. The air quality in a region is considered to be in attainment by the state if the measured ambient air pollutant levels for O<sub>3</sub>, CO (except 8-hour Lake Tahoe), SO<sub>2</sub> (1 and 24 hour), NO<sub>2</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> do not exceed standards. All others are not to be equaled or exceeded. Attainment status for a pollutant means that the SCAQMD meets the standards set by the EPA or the California EPA (CalEPA). Conversely, nonattainment means that an area has monitored air quality that does not meet the NAAQS or CAAQS standards. In order to improve air quality in nonattainment areas, CARB has implemented a State Implementation Plan (SIP). The SIP outlines the measures that the state will take to improve air quality. Once nonattainment areas meet the standards and additional redesignation requirements, the EPA will designate the area as a maintenance area (6).

**TABLE 2-2: AMBIENT AIR QUALITY STANDARDS (1 OF 2)**

Ambient Air Quality Standards						
Pollutant	Averaging Time	California Standards <sup>1</sup>		National Standards <sup>2</sup>		
		Concentration <sup>3</sup>	Method <sup>4</sup>	Primary <sup>3,5</sup>	Secondary <sup>3,8</sup>	Method <sup>7</sup>
Ozone (O <sub>3</sub> ) <sup>8</sup>	1 Hour	0.09 ppm (180 µg/m <sup>3</sup> )	Ultraviolet Photometry	—	Same as Primary Standard	Ultraviolet Photometry
	8 Hour	0.070 ppm (137 µg/m <sup>3</sup> )		0.070 ppm (137 µg/m <sup>3</sup> )		
Respirable Particulate Matter (PM10) <sup>9</sup>	24 Hour	50 µg/m <sup>3</sup>	Gravimetric or Beta Attenuation	150 µg/m <sup>3</sup>	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m <sup>3</sup>		—		
Fine Particulate Matter (PM2.5) <sup>9</sup>	24 Hour	—	—	35 µg/m <sup>3</sup>	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	12 µg/m <sup>3</sup>	Gravimetric or Beta Attenuation	12.0 µg/m <sup>3</sup>		
Carbon Monoxide (CO)	1 Hour	20 ppm (23 mg/m <sup>3</sup> )	Non-Dispersive Infrared Photometry (NDIR)	35 ppm (40 mg/m <sup>3</sup> )	—	Non-Dispersive Infrared Photometry (NDIR)
	8 Hour	9.0 ppm (10 mg/m <sup>3</sup> )		9 ppm (10 mg/m <sup>3</sup> )	—	
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m <sup>3</sup> )		—	—	
Nitrogen Dioxide (NO <sub>2</sub> ) <sup>10</sup>	1 Hour	0.18 ppm (339 µg/m <sup>3</sup> )	Gas Phase Chemiluminescence	100 ppb (188 µg/m <sup>3</sup> )	—	Gas Phase Chemiluminescence
	Annual Arithmetic Mean	0.030 ppm (57 µg/m <sup>3</sup> )		0.053 ppm (100 µg/m <sup>3</sup> )	Same as Primary Standard	
Sulfur Dioxide (SO <sub>2</sub> ) <sup>11</sup>	1 Hour	0.25 ppm (655 µg/m <sup>3</sup> )	Ultraviolet Fluorescence	75 ppb (196 µg/m <sup>3</sup> )	—	Ultraviolet Fluorescence; Spectrophotometry (Pararosaniline Method)
	3 Hour	—		—	0.5 ppm (1300 µg/m <sup>3</sup> )	
	24 Hour	0.04 ppm (105 µg/m <sup>3</sup> )		0.14 ppm (for certain areas) <sup>11</sup>	—	
	Annual Arithmetic Mean	—		0.030 ppm (for certain areas) <sup>11</sup>	—	
Lead <sup>12,13</sup>	30 Day Average	1.5 µg/m <sup>3</sup>	Atomic Absorption	—	—	High Volume Sampler and Atomic Absorption
	Calendar Quarter	—		1.5 µg/m <sup>3</sup> (for certain areas) <sup>12</sup>	Same as Primary Standard	
	Rolling 3-Month Average	—		0.15 µg/m <sup>3</sup>		
Visibility Reducing Particles <sup>14</sup>	8 Hour	See footnote 14	Beta Attenuation and Transmittance through Filter Tape	<b>No National Standards</b>		
Sulfates	24 Hour	25 µg/m <sup>3</sup>	Ion Chromatography			
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m <sup>3</sup> )	Ultraviolet Fluorescence			
Vinyl Chloride <sup>12</sup>	24 Hour	0.01 ppm (26 µg/m <sup>3</sup> )	Gas Chromatography			

See footnotes on next page ...

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**TABLE 2-2: AMBIENT AIR QUALITY STANDARDS (2 OF 2)**

1. California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1 and 24 hour), nitrogen dioxide, and particulate matter (PM10, PM2.5, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.
2. National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM10, the 24 hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above  $150 \mu\text{g}/\text{m}^3$  is equal to or less than one. For PM2.5, the 24 hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Contact the U.S. EPA for further clarification and current national policies.
3. Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of  $25^\circ\text{C}$  and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of  $25^\circ\text{C}$  and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.
4. Any equivalent measurement method which can be shown to the satisfaction of the ARB to give equivalent results at or near the level of the air quality standard may be used.
5. National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.
6. National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.
7. Reference method as described by the U.S. EPA. An "equivalent method" of measurement may be used but must have a "consistent relationship to the reference method" and must be approved by the U.S. EPA.
8. On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.
9. On December 14, 2012, the national annual PM2.5 primary standard was lowered from  $15 \mu\text{g}/\text{m}^3$  to  $12.0 \mu\text{g}/\text{m}^3$ . The existing national 24-hour PM2.5 standards (primary and secondary) were retained at  $35 \mu\text{g}/\text{m}^3$ , as was the annual secondary standard of  $15 \mu\text{g}/\text{m}^3$ . The existing 24-hour PM10 standards (primary and secondary) of  $150 \mu\text{g}/\text{m}^3$  also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.
10. To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.
11. On June 2, 2010, a new 1-hour  $\text{SO}_2$  standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971  $\text{SO}_2$  national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.  
Note that the 1-hour national standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the 1-hour national standard to the California standard the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.
12. The ARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.
13. The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard ( $1.5 \mu\text{g}/\text{m}^3$  as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.
14. In 1989, the ARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

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## 2.6 REGIONAL AIR QUALITY

Air pollution contributes to a wide variety of adverse health effects. The EPA has established NAAQS for six of the most common air pollutants: CO, Pb, O<sub>3</sub>, particulate matter (PM<sub>10</sub> and PM<sub>2.5</sub>), NO<sub>2</sub>, and SO<sub>2</sub> which are known as criteria pollutants. The SCAQMD monitors levels of various criteria pollutants at 37 permanent monitoring stations and 5 single-pollutant source Pb air monitoring sites throughout the air district (7). On February 21, 2019, CARB posted the 2018 amendments to the state and national area designations. See Table 2-3 for attainment designations for the SCAB (8). Appendix 2.1 provides geographic representation of the state and federal attainment status for applicable criteria pollutants within the SCAB.

**TABLE 2-3: ATTAINMENT STATUS OF CRITERIA POLLUTANTS IN THE SCAB**

Criteria Pollutant	State Designation	Federal Designation
O <sub>3</sub> – 1-hour standard	Nonattainment	--
O <sub>3</sub> – 8-hour standard	Nonattainment	Nonattainment
PM <sub>10</sub>	Nonattainment	Attainment
PM <sub>2.5</sub>	Nonattainment	Nonattainment
CO	Attainment	Unclassifiable/Attainment
NO <sub>2</sub>	Attainment	Unclassifiable/Attainment
SO <sub>2</sub>	Unclassifiable/Attainment	Unclassifiable/Attainment
Pb <sup>1</sup>	Attainment	Unclassifiable/Attainment

Note: See Appendix 2.1 for a detailed map of State/National Area Designations within the SCAB  
 "--" = The national 1-hour O<sub>3</sub> standard was revoked effective June 15, 2005.

## 2.7 LOCAL AIR QUALITY

The SCAQMD has designated general forecast areas and air monitoring areas (referred to as Source Receptor Areas [SRA]) throughout the district in order to provide Southern California residents with information about the air quality conditions. The Project site is located within the Southwest San Bernardino Valley area (SRA 33). The CA-60 Near Road monitoring station is located approximately 3.9 miles northwest of the Project site and is the nearest long-term air quality monitoring site for NO<sub>2</sub> and PM<sub>2.5</sub>. The SCAQMD I-10 Near Road monitoring station is located approximately 6.2 miles northeast of the Project site and is the next nearest monitoring site within SRA 33. The I-10 Near Road monitoring station provides data for CO. Relative to the Project site, the nearest long-term air quality monitoring site for O<sub>3</sub> and PM<sub>10</sub> is the SCAQMD Northwest San Bernardino Valley (SRA 32) monitoring station located approximately 8.5 miles northwest of the Project site. It should be noted that the Northwest San Bernardino Valley monitoring station was utilized in lieu of the CA-60 Near Road and I-10 Near Road monitoring stations only in instances where data was not available.

<sup>1</sup> The Federal nonattainment designation for lead is only applicable towards the Los Angeles County portion of the SCAB.



The most recent three (3) years of data available is shown on Table 2-4 and identifies the number of days ambient air quality standards were exceeded for the study area, which is considered to be representative of the local air quality at the Development Site. It should be noted that the three-year period is presented for informational purposes and is not the basis for how the State assigns attainment status. Data for O<sub>3</sub>, CO, NO<sub>2</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> for 2018 through 2020 was obtained from the SCAQMD Air Quality Data Tables (9). Additionally, data for SO<sub>2</sub> has been omitted as attainment is regularly met in the SCAB and few monitoring stations measure SO<sub>2</sub> concentrations.

**TABLE 2-4: PROJECT AREA AIR QUALITY MONITORING SUMMARY 2018-2020**

Pollutant	Standard	Year		
		2018	2019	2020
O <sub>3</sub>				
Maximum Federal 1-Hour Concentration (ppm)		0.133	0.131	0.158
Maximum Federal 8-Hour Concentration (ppm)		0.111	0.107	0.123
Number of Days Exceeding State 1-Hour Standard	> 0.09 ppm	25	31	82
Number of Days Exceeding State/Federal 8-Hour Standard	> 0.070 ppm	52	52	114
CO				
Maximum Federal 1-Hour Concentration	> 35 ppm	1.6	1.5	1.5
Maximum Federal 8-Hour Concentration	> 20 ppm	1.3	1.1	1.2
NO <sub>2</sub>				
Maximum Federal 1-Hour Concentration	> 0.100 ppm	0.079	0.087	0.101
Annual Federal Standard Design Value		0.030	0.029	0.029
PM <sub>10</sub>				
Maximum Federal 24-Hour Concentration (µg/m <sup>3</sup> )	> 150 µg/m <sup>3</sup>	73	125	63
Annual Federal Arithmetic Mean (µg/m <sup>3</sup> )		32.3	28.1	30.5
Number of Days Exceeding Federal 24-Hour Standard	> 150 µg/m <sup>3</sup>	0	0	0
Number of Days Exceeding State 24-Hour Standard	> 50 µg/m <sup>3</sup>	14	7	12
PM <sub>2.5</sub>				
Maximum Federal 24-Hour Concentration (µg/m <sup>3</sup> )	> 35 µg/m <sup>3</sup>	47.90	41.30	53.10
Annual Federal Arithmetic Mean (µg/m <sup>3</sup> )	> 12 µg/m <sup>3</sup>	14.31	12.70	14.36
Number of Days Exceeding Federal 24-Hour Standard	> 35 µg/m <sup>3</sup>	5	5	4

ppm = Parts Per Million

µg/m<sup>3</sup> = Microgram per Cubic MeterSource: Data for O<sub>3</sub>, CO, NO<sub>2</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> was obtained from SCAQMD Air Quality Data Tables.

## 2.8 REGULATORY BACKGROUND

### 2.8.1 FEDERAL REGULATIONS

The EPA is responsible for setting and enforcing the NAAQS for O<sub>3</sub>, CO, NO<sub>x</sub>, SO<sub>2</sub>, PM<sub>10</sub>, and Pb (10). The EPA has jurisdiction over emissions sources that are under the authority of the federal

government including aircraft, locomotives, and emissions sources outside state waters (Outer Continental Shelf). The EPA also establishes emission standards for vehicles sold in states other than California. Automobiles sold in California must meet the stricter emission requirements of CARB.

The Federal Clean Air Act (CAA) was first enacted in 1955 and has been amended numerous times in subsequent years (1963, 1965, 1967, 1970, 1977, and 1990). The CAA establishes the federal air quality standards, the NAAQS, and specifies future dates for achieving compliance (11). The CAA also mandates that states submit and implement SIPs for local areas not meeting these standards. These plans must include pollution control measures that demonstrate how the standards would be met.

The 1990 amendments to the CAA that identify specific emission reduction goals for areas not meeting the NAAQS require a demonstration of reasonable further progress toward attainment and incorporate additional sanctions for failure to attain or to meet interim milestones. The sections of the CAA most directly applicable to the development of the Project site include Title I (Non-Attainment Provisions) and Title II (Mobile Source Provisions) (12) (13). Title I provisions were established with the goal of attaining the NAAQS for the following criteria pollutants  $O_3$ ,  $NO_2$ ,  $SO_2$ ,  $PM_{10}$ ,  $CO$ ,  $PM_{2.5}$ , and  $Pb$ . The NAAQS were amended in July 1997 to include an additional standard for  $O_3$  and to adopt a NAAQS for  $PM_{2.5}$ . Table 2-3 (previously presented) provides the NAAQS within the SCAB.

Mobile source emissions are regulated in accordance with Title II provisions. These provisions require the use of cleaner burning gasoline and other cleaner burning fuels such as methanol and natural gas. Automobile manufacturers are also required to reduce tailpipe emissions of hydrocarbons and  $NO_x$ .  $NO_x$  is a collective term that includes all forms of  $NO_x$  which are emitted as byproducts of the combustion process.

## **2.8.2 CALIFORNIA REGULATIONS**

### **CARB**

CARB, which became part of the CalEPA in 1991, is responsible for ensuring implementation of the California Clean Air Act (AB 2595), responding to the federal CAA, and for regulating emissions from consumer products and motor vehicles. AB 2595 mandates achievement of the maximum degree of emissions reductions possible from vehicular and other mobile sources in order to attain the state ambient air quality standards by the earliest practical date. CARB established the CAAQS for all pollutants for which the federal government has NAAQS and, in addition, establishes standards for  $SO_4$ , visibility, hydrogen sulfide ( $H_2S$ ), and vinyl chloride ( $C_2H_3Cl$ ). However, at this time,  $H_2S$  and  $C_2H_3Cl$  are not measured at any monitoring stations in the SCAB because they are not considered to be a regional air quality problem. Generally, the CAAQS are more stringent than the NAAQS (14) (10).

Local air quality management districts, such as the SCAQMD, regulate air emissions from stationary sources such as commercial and industrial facilities. All air pollution control districts have been formally designated as attainment or non-attainment for each CAAQS.

Serious non-attainment areas are required to prepare Air Quality Management Plans (AQMP) that include specified emission reduction strategies in an effort to meet clean air goals. These plans are required to include:

- Application of Best Available Retrofit Control Technology to existing sources;
- Developing control programs for area sources (e.g., architectural coatings and solvents) and indirect sources (e.g., motor vehicle use generated by residential and commercial development);
- A District permitting system designed to allow no net increase in emissions from any new or modified permitted sources of emissions;
- Implementing reasonably available transportation control measures and assuring a substantial reduction in growth rate of vehicle trips and miles traveled;
- Significant use of low emissions vehicles by fleet operators;
- Sufficient control strategies to achieve a 5% or more annual reduction in emissions or 15% or more in a period of three years for ROG<sub>s</sub>, NO<sub>x</sub>, CO and PM<sub>10</sub>. However, air basins may use alternative emission reduction strategy that achieves a reduction of less than 5% per year under certain circumstances.

#### **TITLE 24 ENERGY EFFICIENCY STANDARDS AND CALIFORNIA GREEN BUILDING STANDARDS**

California Code of Regulations (CCR) Title 24 Part 6: The California Energy Code was first adopted in 1978 in response to a legislative mandate to reduce California's energy consumption.

The standards are updated periodically to allow consideration and possible incorporation of new energy efficient technologies and methods. CCR, Title 24, Part 11: California Green Building Standards Code (CALGreen) is a comprehensive and uniform regulatory code for all residential, commercial, and school buildings that went in effect on January 1, 2009, and is administered by the California Building Standards Commission.

CALGreen is updated on a regular basis, with the most recent approved update consisting of the 2022 California Green Building Code Standards that will be effective on January 1, 2023.

Local jurisdictions are permitted to adopt more stringent requirements, as state law provides methods for local enhancements. CALGreen recognizes that many jurisdictions have developed existing construction waste and demolition ordinances and defers to them as the ruling guidance provided they establish a minimum 65% diversion requirement.

The code also provides exemptions for areas not served by construction waste and demolition recycling infrastructure. The State Building Code provides the minimum standard that buildings must meet in order to be certified for occupancy, which is generally enforced by the local building official.

Energy efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel consumption and decreases greenhouse gas (GHG) emissions. The 2022 version of Title 24 was adopted by the CEC and will be effective on January 1, 2023.

The 2022 Title 24 standards would result in less energy use, thereby reducing air pollutant emissions associated with energy consumption in the SCAB and across the State of California. For

example, the 2022 Title 24 standards require solar photovoltaic systems for new homes, encourage the use of heat pumps for space and water heating, and require homes to be electric-ready to ease the adoption of cleaner electric heating, cooking, and EV charging. The CEC anticipates that the 2022 energy code will provide \$1.5 billion in consumer benefits and reduce GHG emissions by 10 million metric tons (15). The Project would be required to comply with the applicable standards in place at the time building permit document submittals are made. These require, among other items (16):

- EV Charging (new one- and two-family dwellings and townhouses with attached private garages). For each dwelling unit, install a listed raceway to accommodate a dedicated 208/240-volt branch circuit. The raceway shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall originate at the main service or subpanel and shall terminate into a listed cabinet, box or other enclosure in close proximity to the proposed location of an EV charger. Raceways are required to be continuous at enclosed, inaccessible or concealed areas and spaces. The service panel and/or subpanel shall provide capacity to install a 40-ampere minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overcurrent protective device (4.106.4.1).
- Short-term bicycle parking. If the new project or an additional alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack (5.106.4.1.1).
- Long-term bicycle parking. For new buildings with tenant spaces that have ten or more tenant-occupants, provide secure bicycle parking for 5% of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility (5.106.4.1.2).
- Designated parking. In new projects or additions to alterations that add ten or more vehicular parking spaces, provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as shown in Table 5.106.5.2 (5.106.5.2).
- Construction waste management. Recycle and/or salvage for reuse a minimum of 65% of the nonhazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.405.1.2, or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent (5.408.1).
- Excavated soil and land clearing debris. 100% of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed (5.408.3).
- Recycling by Occupants. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive (5.410.1).
- Water conserving plumbing fixtures and fittings. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:
  - Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush (5.303.3.1).

- Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush (5.303.3.2.1). The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush (5.303.3.2.2).
- Showerheads. Single showerheads shall have a minimum flow rate of not more than 1.8 gallons per minute and 80 psi (5.303.3.3.1). When a shower is served by more than one showerhead, the combine flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi (5.303.3.3.2).
- Faucets and fountains. Nonresidential lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi (5.303.3.4.1). Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 psi (5.303.3.4.2). Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute (5.303.3.4.3). Metering faucets shall not deliver more than 0.20 gallons per cycle (5.303.3.4.4). Metering faucets for wash fountains shall have a maximum flow rate not more than 0.20 gallons per cycle (5.303.3.4.5).

Residential lavatory faucets shall have a maximum flow rate of not more than 1.2 gallons per minute at 60 psi (4.303.1.4.1). Lavatory faucets in common or public use areas shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi (4.303.1.4.2). Metering faucets shall not deliver more than 0.25 gallons per cycle (4.303.1.4.3). Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 psi (4.303.1.4.4).

- Outdoor potable water use in landscaped areas. Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent (5.304.1).
- Water meters. Separate submeters or metering devices shall be installed for new buildings or additions in excess of 50,000 sf or for excess consumption where any tenant within a new building or within an addition that is projected to consume more than 1,000 gal/day (5.303.1.1 and 5.303.1.2).
- Outdoor water use in rehabilitated landscape projects equal or greater than 2,500 sf. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 2,500 sf requiring a building or landscape permit (5.304.3).
- Commissioning. For new buildings 10,000 sf and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements (5.410.2).

Additionally, under California's 2022 Title 24, Part 6 Building Energy Efficiency Standards, solar photovoltaic systems are required for newly constructed low-rise residential buildings and shall be sized sufficient to offset the electricity use of the proposed building as if it was a mixed-fuel building.

## 2.9 REGIONAL AIR QUALITY IMPROVEMENT

The Project is within the jurisdiction of the SCAQMD. In 1976, California adopted the Lewis Air Quality Management Act which created SCAQMD from a voluntary association of air pollution control districts in Los Angeles, Orange, Riverside, and San Bernardino counties. The geographic

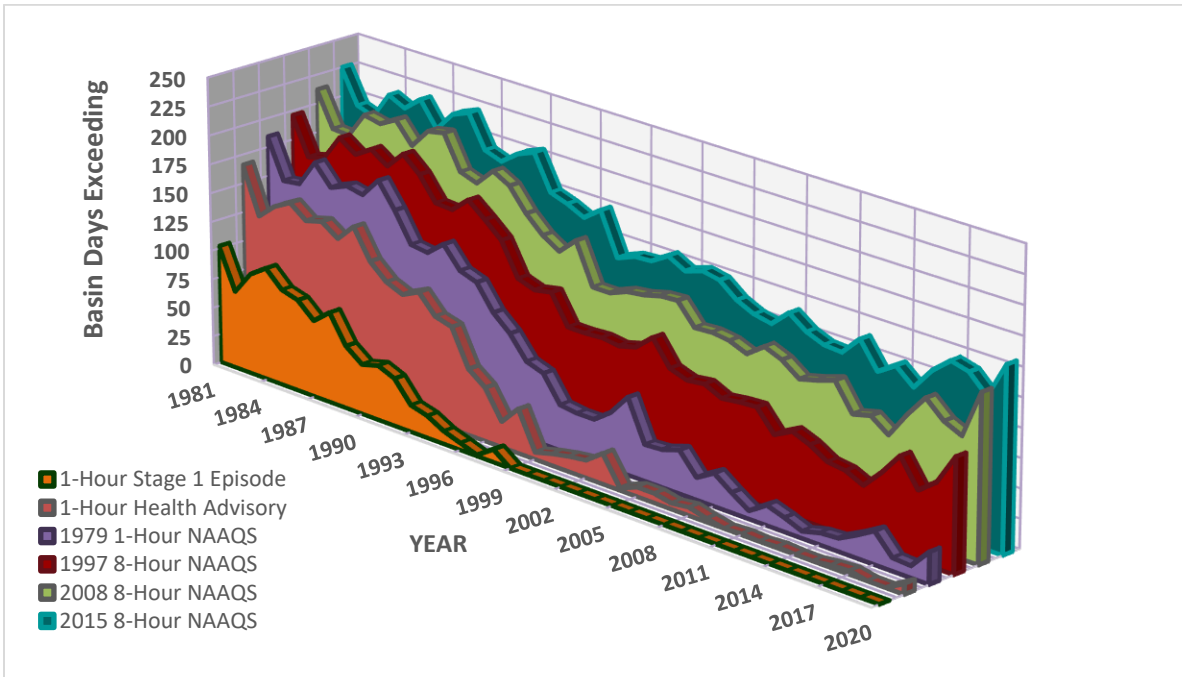
area of which SCAQMD consists of is known as the SCAB. SCAQMD develops comprehensive plans and regulatory programs for the region to attain federal standards by dates specified in federal law. The agency is also responsible for meeting state standards by the earliest date achievable, using reasonably available control measures.

SCAQMD rule development through the 1970s and 1980s resulted in dramatic improvement in SCAB air quality. Nearly all control programs developed through the early 1990s relied on (i) the development and application of cleaner technology; (ii) add-on emission controls, and (iii) uniform CEQA review throughout the SCAB. Industrial emission sources have been significantly reduced by this approach and vehicular emissions have been reduced by technologies implemented at the state level by CARB.

As discussed above, the SCAQMD is the lead agency charged with regulating air quality emission reductions for the entire SCAB. SCAQMD created AQMPs which represent a regional blueprint for achieving healthful air on behalf of the 16 million residents of the SCAB. AQMPs are updated regularly to ensure an effective reduction in emissions, accommodate growth, and to minimize any negative fiscal impacts of air pollution control on the economy.

Emissions of O<sub>3</sub>, NO<sub>x</sub>, VOC, and CO have been decreasing in the SCAB since 1975 (17). These decreases result primarily from motor vehicle controls and reductions in evaporative emissions. Although vehicle miles traveled (VMT) in the SCAB continue to increase, NO<sub>x</sub> and VOC levels are decreasing because of the mandated controls on motor vehicles and the replacement of older polluting vehicles with lower-emitting vehicles. NO<sub>x</sub> emissions from electric utilities have also decreased due to use of cleaner fuels and renewable energy. O<sub>3</sub> contour maps show that the number of days exceeding the 8-hour NAAQS has generally decreased between 1980 and 2020. For 2020, there was an overall decrease in exceedance days compared with the 1980 period. However, as shown on Table 2-5, O<sub>3</sub> levels have increased in the past three years due to higher temperatures and stagnant weather conditions. Notwithstanding, O<sub>3</sub> levels in the SCAB have decreased substantially over the last 30 years with the current maximum measured concentrations being approximately one-third of concentrations within the late 70's (18).

**TABLE 2-5: SCAB O<sub>3</sub> TREND**

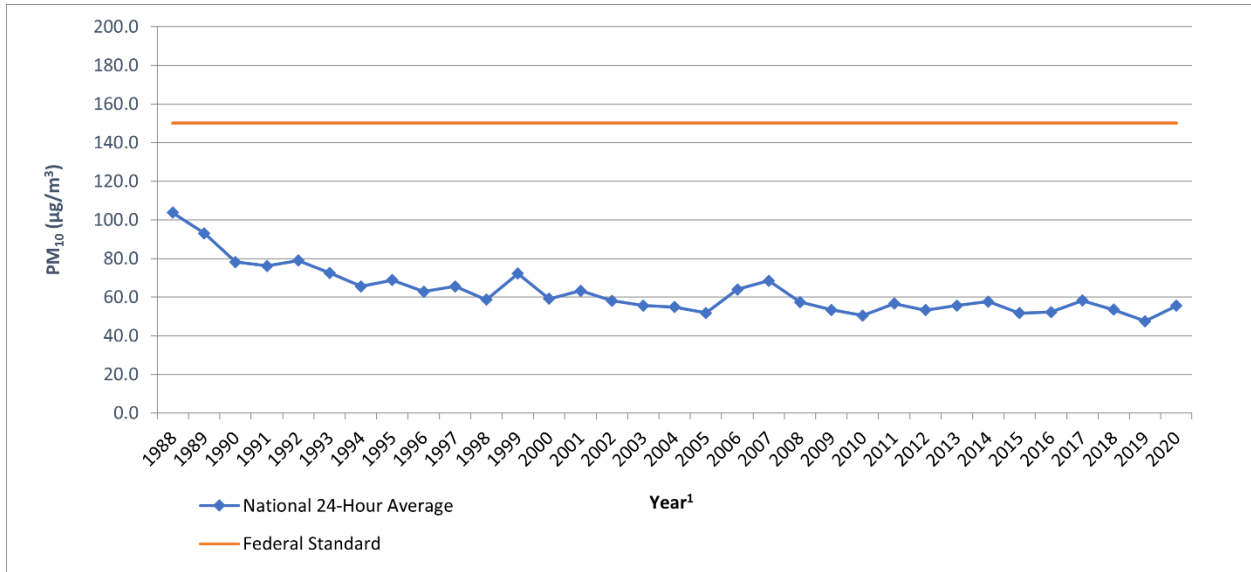


Source: 2020 SCAQMD, Historical O<sub>3</sub> Air Quality Trends (1976-2020)

The overall trends of PM<sub>10</sub> and PM<sub>2.5</sub> levels in the air (not emissions) show an overall improvement since 1975. Direct emissions of PM<sub>10</sub> have remained somewhat constant in the SCAB and direct emissions of PM<sub>2.5</sub> have decreased slightly since 1975. Area wide sources (fugitive dust from roads, dust from construction, and other sources) contribute the greatest amount of direct particulate matter emissions.

As with other pollutants, the most recent PM<sub>10</sub> statistics show an overall improvement as illustrated in Tables 2-6 and 2-7. During the period for which data are available, the 24-hour national annual average concentration for PM<sub>10</sub> decreased by approximately 46%, from 103.7 microgram per cubic meter (µg/m<sup>3</sup>) in 1988 to 55.5 µg/m<sup>3</sup> in 2020 (19). Although the values are below the federal standard, it should be noted that there are days within the year where the concentrations would exceed the threshold. The 24-hour state annual average for emissions for PM<sub>10</sub>, have decreased by approximately 64%, from 93.9 µg/m<sup>3</sup> in 1989 to 33.9 µg/m<sup>3</sup> in 2020 (19). Although data in the late 1990's show some variability, this is probably due to the advances in meteorological science rather than a change in emissions. Similar to the ambient concentrations, the calculated number of days above the 24-hour PM<sub>10</sub> standards has also shown an overall drop.

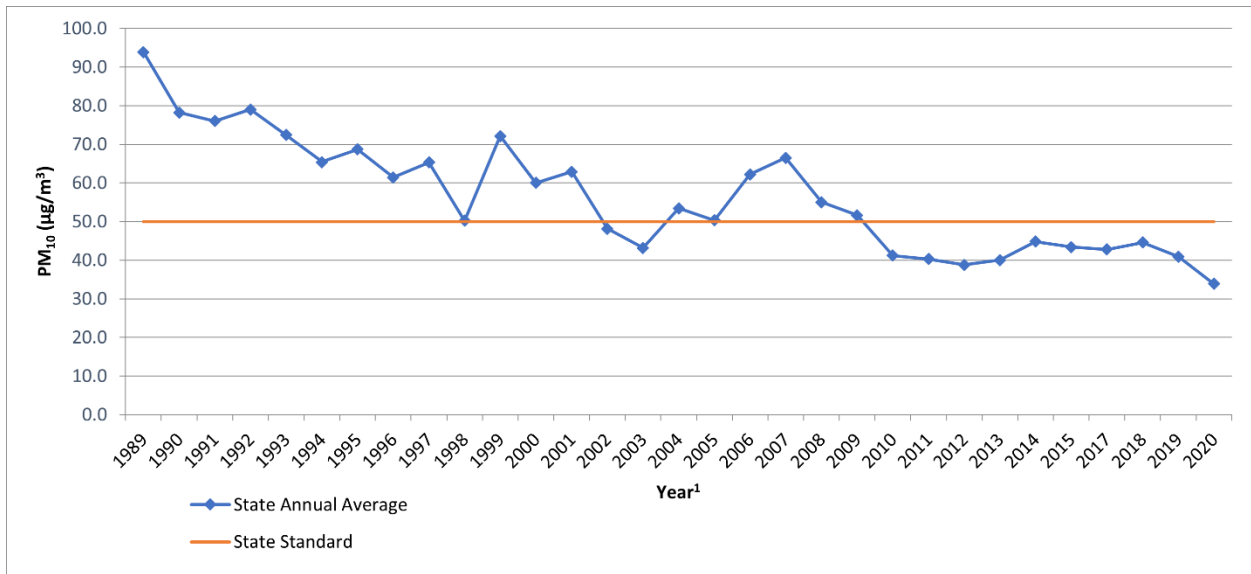
**TABLE 2-6: SCAB AVERAGE 24-HOUR CONCENTRATION PM<sub>10</sub> TREND (BASED ON FEDERAL STANDARD)<sup>1</sup>**



Source: 2020 CARB, iADAM: Top Four Summary: PM<sub>10</sub> 24-Hour Averages (1988-2020)

<sup>1</sup> Some years have been omitted from the table as insufficient data (or no) data has been reported. Years with reported value of "0" have also been omitted.

**TABLE 2-7: SCAB ANNUAL AVERAGE CONCENTRATION PM<sub>10</sub> TREND (BASED ON STATE STANDARD)<sup>1</sup>**



Source: 2020 CARB, iADAM: Top Four Summary: PM<sub>10</sub> 24-Hour Averages (1988-2020)

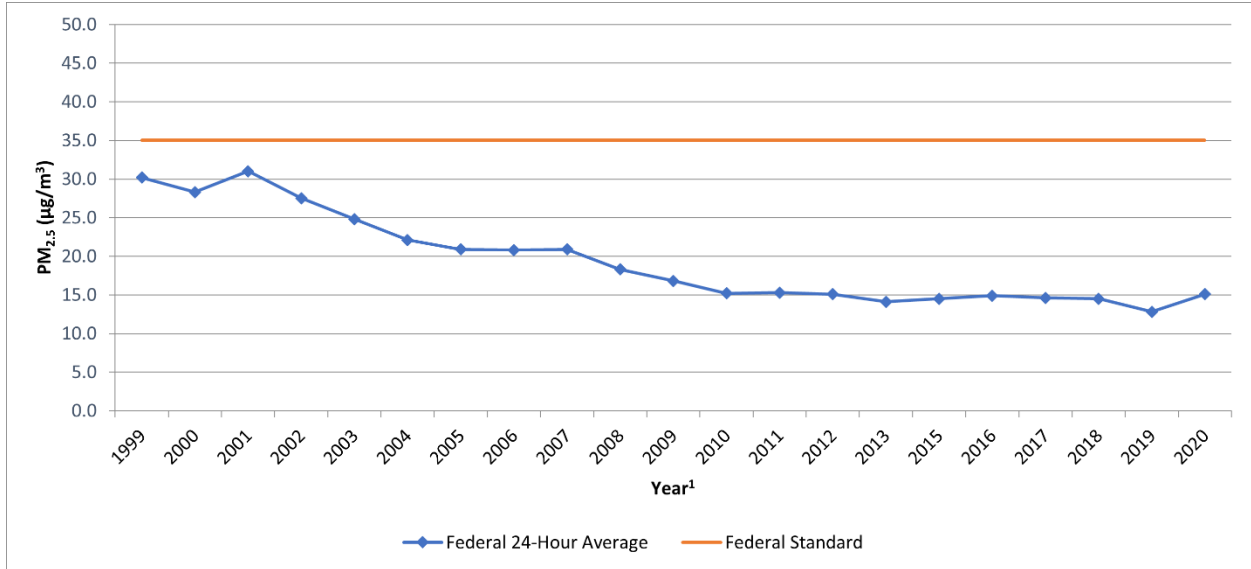
<sup>1</sup> Some years have been omitted from the table as insufficient data (or no) data has been reported. Years with reported value of "0" have also been omitted.

Tables 2-8 and 2-9 shows the most recent 24-hour average PM<sub>2.5</sub> concentrations in the SCAB from 1999 through 2020. Overall, the national and state annual average concentrations have



decreased by almost 50% and 31% respectively (19). It should be noted that the SCAB is currently designated as nonattainment for the state and federal PM<sub>2.5</sub> standards.

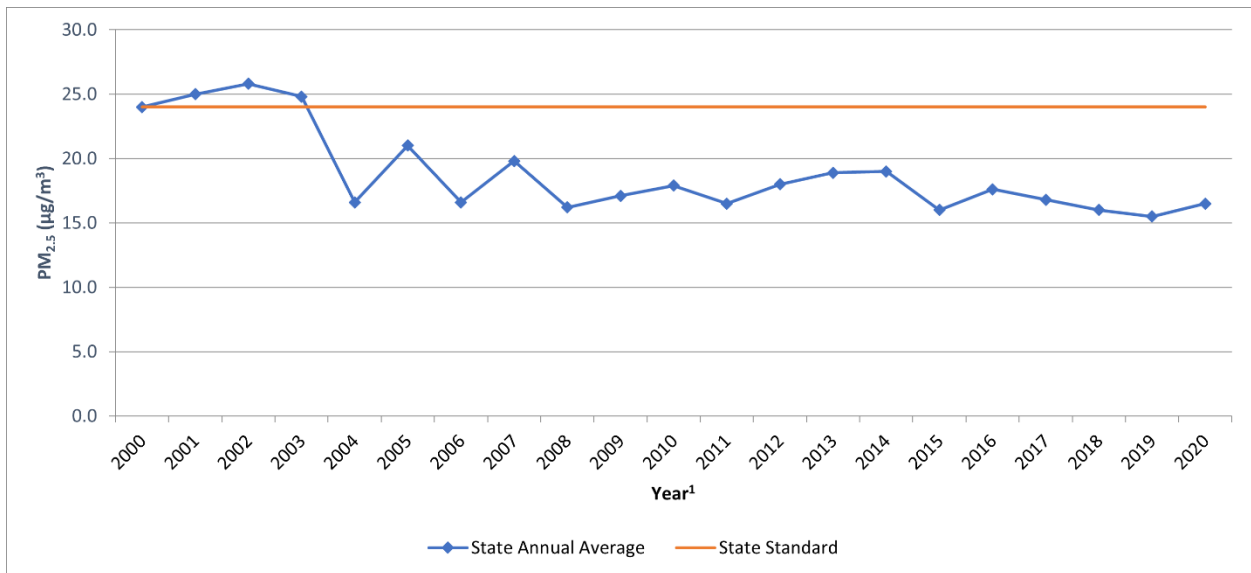
**TABLE 2-8: SCAB 24-HOUR AVERAGE CONCENTRATION PM<sub>2.5</sub> TREND (BASED ON FEDERAL STANDARD)<sup>1</sup>**



Source: 2020 CARB, iADAM: Top Four Summary: PM<sub>2.5</sub> 24-Hour Averages (1999-2020)

<sup>1</sup> Some years have been omitted from the table as insufficient data (or no) data has been reported. Years with reported value of "0" have also been omitted.

**TABLE 2-9: SCAB ANNUAL AVERAGE CONCENTRATION PM<sub>2.5</sub> TREND (BASED ON STATE STANDARD)<sup>1</sup>**



Source: 2020 CARB, iADAM: Top Four Summary: PM<sub>2.5</sub> 24-Hour Averages (1999-2020)

<sup>1</sup> Some years have been omitted from the table as insufficient data (or no) data has been reported. Years with reported value of "0" have also been omitted.

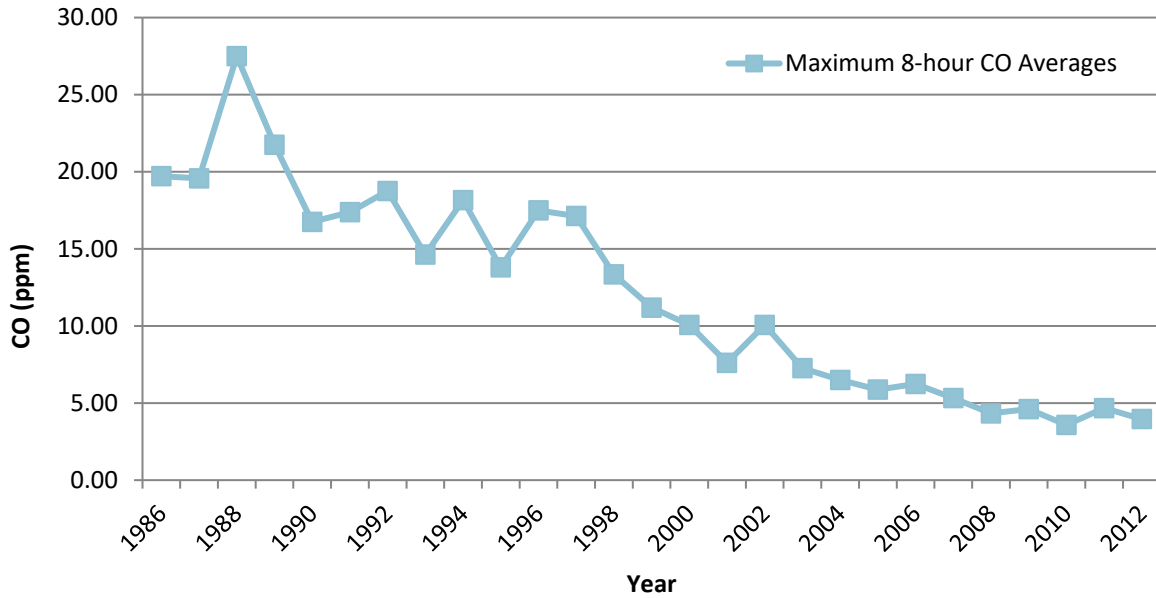
While the 2012 AQMP PM<sub>10</sub> attainment demonstration and the 2015 associated supplemental SIP submission indicated that attainment of the 24-hour standard was predicted to occur by the end of 2015, it could not anticipate the effect of the ongoing drought on the measured PM<sub>2.5</sub>.

The 2006 to 2010 base period used for the 2012 attainment demonstration had near-normal rainfall. While the trend of PM<sub>2.5</sub>-equivalent emission reductions continued through 2015, the severe drought conditions contributed to the PM<sub>2.5</sub> increases observed after 2012. As a result of the disrupted progress toward attainment of the federal 24-hour PM<sub>2.5</sub> standard, SCAQMD submitted a request and the EPA approved, in January 2016, a “bump up” to the nonattainment classification from “moderate” to “serious,” with a new attainment deadline as soon as practicable, but not beyond December 31, 2019. As of March 14, 2019, the EPA approved portions of a SIP revision submitted by California to address CAA requirements for the 2006 24-hour PM<sub>2.5</sub> NAAQS in the Los Angeles-SCAB Serious PM<sub>2.5</sub> nonattainment area. The EPA also approved 2017 and 2019 motor vehicle emissions budgets for transportation conformity purposes and inter-pollutant trading ratios for use in transportation conformity analyses (20).

In December 2022, the SCAQMD released the Final 2022 AQMP. The 2022 AQMP continues to evaluate current integrated strategies and control measures to meet the NAAQS, as well as explore new and innovative methods to reach its goals. Some of these approaches include utilizing incentive programs, recognizing existing co-benefit programs from other sectors, and developing a strategy with fair-share reductions at the federal, state, and local levels (21). Similar to the 2016 AQMP, the 2022 AQMP incorporates scientific and technological information and planning assumptions, including the 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy (2020-2045 RTP/SCS) and updated emission inventory methodologies for various source categories (22).

The most recent CO concentrations in the SCAB are shown in Table 2-10 (19). CO concentrations in the SCAB have decreased markedly — a total decrease of more about 80% in the peak 8-hour concentration from 1986 to 2012. It should be noted 2012 is the most recent year where 8-hour CO averages and related statistics are available in the SCAB. The number of exceedance days has also declined. The entire SCAB is now designated as attainment for both the state and national CO standards. Ongoing reductions from motor vehicle control programs should continue the downward trend in ambient CO concentrations.

**TABLE 2-10: SCAB 8-HOUR AVERAGE CONCENTRATION CO TREND<sup>1</sup>**



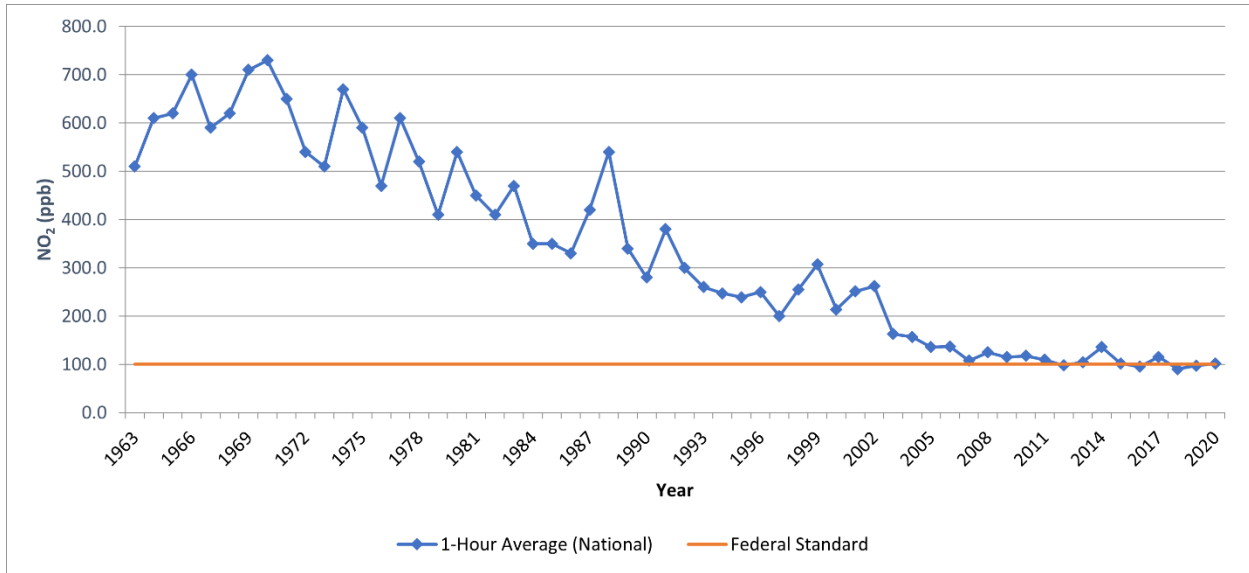
Source: 2020 CARB, iADAM: Top Four Summary: CO 8-Hour Averages (1986-2012)

<sup>1</sup> The most recent year where 8-hour concentration data is available is 2012.

Part of the control process of the SCAQMD’s duty to greatly improve the air quality in the SCAB is the uniform CEQA review procedures required by SCAQMD’s *CEQA Air Quality Handbook (1993) (1993 CEQA Handbook) (23)*. The single threshold of significance used to assess Project direct and cumulative impacts has in fact “worked” as evidenced by the track record of the air quality in the SCAB dramatically improving over the course of the past decades. As stated by the SCAQMD, the District’s thresholds of significance are based on factual and scientific data and are therefore appropriate thresholds of significance to use for this Project.

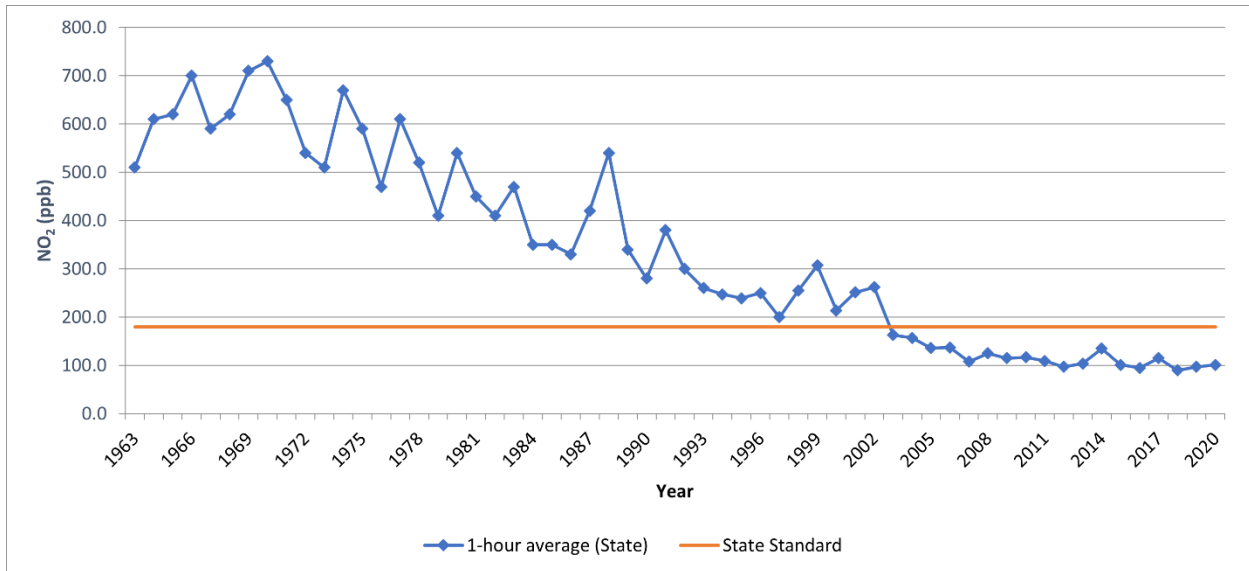
The most recent NO<sub>2</sub> data for the SCAB is shown in Tables 2-11 and 2-12 (19). Over the last 50 years, NO<sub>2</sub> values have decreased significantly; the peak 1-hour national and state averages for 2020 is approximately 80% lower than what it was during 1963. The SCAB attained the State 1-hour NO<sub>2</sub> standard in 1994, bringing the entire state into attainment. A new state annual average standard of 0.030 ppm was adopted by CARB in February 2007 (24). This standard is just barely exceeded in the SCAQMD. NO<sub>2</sub> is formed from NO<sub>x</sub> emissions, which also contribute to O<sub>3</sub>. As a result, the majority of the future emission control measures would be implemented as part of the overall O<sub>3</sub> control strategy. Many of these control measures would target mobile sources, which account for more than three-quarters of California’s NO<sub>x</sub> emissions. These measures are expected to bring the SCAQMD into attainment of the state annual average standard.

**TABLE 2-11: SCAB 1-HOUR AVERAGE CONCENTRATION NO<sub>2</sub> TREND (BASED ON FEDERAL STANDARD)**



Source: 2020 CARB, iADAM: Top Four Summary: CO 1-Hour Averages (1963-2020)

**TABLE 2-12: SCAB 1-HOUR AVERAGE CONCENTRATION NO<sub>2</sub> TREND (BASED ON STATE STANDARD)**



Source: 2020 CARB, iADAM: Top Four Summary: CO 1-Hour Averages (1963-2020)

### 2.9.1 TOXIC AIR CONTAMINANTS (TAC) TRENDS

In 1984, as a result of public concern for exposure to airborne carcinogens, CARB adopted regulations to reduce the amount of TAC emissions resulting from mobile and area sources, such as cars, trucks, stationary sources, and consumer products. According to the *Ambient and Emission Trends of Toxic Air Contaminants in California* journal article (25) which was prepared for CARB, results show that between 1990-2012, ambient concentration and emission trends for

the seven TACs responsible for most of the known cancer risk associated with airborne exposure in California have declined significantly (between 1990 and 2012). The seven TACs studied include those that are derived from mobile sources: diesel particulate matter (DPM), benzene (C<sub>6</sub>H<sub>6</sub>), and 1,3-butadiene (C<sub>4</sub>H<sub>6</sub>); those that are derived from stationary sources: perchloroethylene (C<sub>2</sub>Cl<sub>4</sub>) and hexavalent chromium (Cr(VI)); and those derived from photochemical reactions of emitted VOCs: formaldehyde (CH<sub>2</sub>O) and acetaldehyde (C<sub>2</sub>H<sub>4</sub>O)<sup>2</sup>. The decline in ambient concentration and emission trends of these TACs are a result of various regulations CARB has implemented to address cancer risk.

### **MOBILE SOURCE TACS**

CARB introduced two programs that aimed at reducing mobile emissions for light and medium duty vehicles through vehicle emissions controls and cleaner fuel. In California, light-duty vehicles sold after 1996 are equipped with California's second-generation On-Board Diagnostic (OBD-II) system. The OBD-II system monitors virtually every component that can affect the emission performance of the vehicle to ensure that the vehicle remains as clean as possible over its entire life and assists repair technicians in diagnosing and fixing problems with the computerized engine controls. If a problem is detected, the OBD-II system illuminates a warning lamp on the vehicle instrument panel to alert the driver. This warning lamp typically contains the phrase "Check Engine" or "Service Engine Soon." The system would also store important information about the detected malfunction so that a repair technician can accurately find and fix the problem. CARB has recently developed similar OBD requirements for heavy-duty vehicles over 14,000 pounds (lbs). CARB's phase II Reformulated Gasoline Regulation (RFG-2), adopted in 1996, also led to a reduction of mobile source emissions. Through such regulations, benzene levels declined 88% from 1990-2012. 1,3-Butadiene concentrations also declined 85% from 1990-2012 as a result of the use of reformulated gasoline and motor vehicle regulations (25).

In 2000, CARB's Diesel Risk Reduction Plan (DRRP) recommended the replacement and retrofit of diesel-fueled engines and the use of ultra-low-sulfur (<15 ppm) diesel fuel. As a result of these measures, DPM concentrations have declined 68% since 2000, even though the state's population increased 31% and the amount of diesel vehicles miles traveled increased 81%, as shown on Exhibit 2-B. With the implementation of these diesel-related control regulations, CARB expects a DPM decline of 71% for 2000-2020.

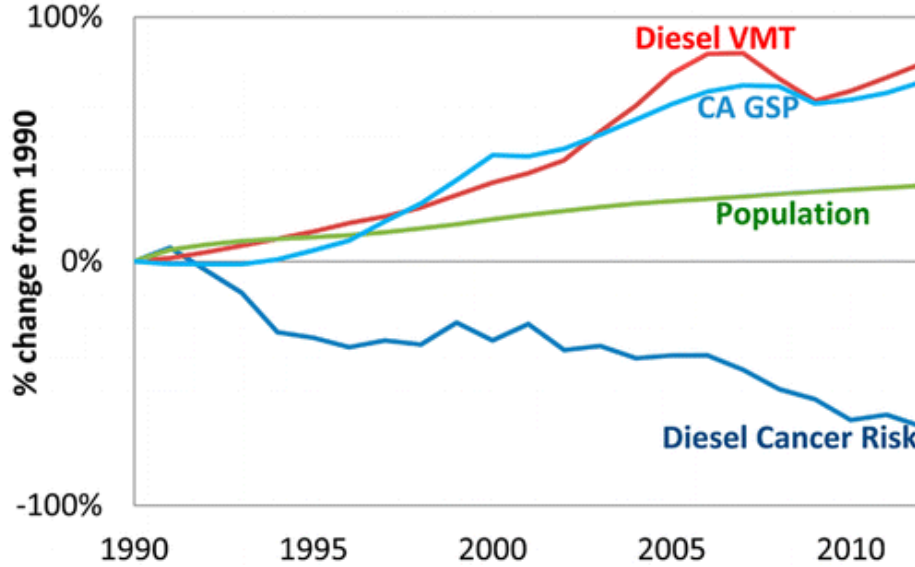
SCAQMD's Multiple Air Toxics Exposure Study (MATES) study, discussed later illustrates the cancer risk trends, which show an approximate 80% reduction in risk from 2000 to 2020, which correlates to the reductions in DPM anticipated by CARB.

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<sup>2</sup> It should be noted that ambient DPM concentrations are not measured directly. Rather, a surrogate method using the coefficient of haze (COH) and elemental carbon (EC) is used to estimate DPM concentrations.

**EXHIBIT 2-A: DPM AND DIESEL VEHICLE MILES TREND**

**California Population, Gross State Product (GSP), Diesel Cancer Risk, Diesel Vehicle-Miles-Traveled (VMT)**



Source: 2020 CARB

**DIESEL REGULATIONS**

CARB and the Ports of Los Angeles and Long Beach (POLA and POLB) have adopted several iterations of regulations for diesel trucks that are aimed at reducing DPM. More specifically, CARB Drayage Truck Regulation (26), CARB statewide On-road Truck and Bus Regulation (27), and the Ports of Los Angeles and Long Beach Clean Truck Program (CTP) require accelerated implementation of “clean trucks” into the statewide truck fleet (28). In other words, older more polluting trucks would be replaced with newer, cleaner trucks as a function of these regulatory requirements.

Moreover, the average statewide DPM emissions for Heavy Duty Trucks (HDT), in terms of grams of DPM generated per mile traveled, would dramatically be reduced due to the aforementioned regulatory requirements.

**CANCER RISK TRENDS**

Based on information available from CARB, overall cancer risk throughout the SCAB has had a declining trend since 1990. In 1998, following an exhaustive 10-year scientific assessment process, CARB identified particulate matter from diesel-fueled engines as a toxic air contaminant. The SCAQMD initiated a comprehensive urban toxic air pollution study called the MATES. DPM accounts for more than 70% of the cancer risk.

In January 2018, as part of the overall effort to reduce air toxics exposure in the SCAB, SCAQMD began conducting the MATES V Program. MATES V field measurements were conducted at ten fixed sites (the same sites selected for MATES III and IV) to assess trends in air toxics levels.

MATES V also included measurements of ultrafine particles (UFP) and black carbon (BC) concentrations, which can be compared to the UFP levels measured in MATES IV (29). The final report for the MATES V study was published in August 2021. In addition to new measurements and updated modeling results, several key updates were implemented in MATES V. First, MATES V estimates cancer risks by taking into account multiple exposure pathways, which includes inhalation and non-inhalation pathways. This approach is consistent with how cancer risks are estimated in South Coast AQMD's programs such as permitting, Air Toxics Hot Spots (AB2588), and CEQA. Previous MATES studies quantified the cancer risks based on the inhalation pathway only. Second, along with cancer risk estimates, MATES V includes information on the chronic non-cancer risks from inhalation and non-inhalation pathways for the first time. Cancer risks and chronic non-cancer risks from MATES II through IV measurements have been re-examined using current Office of Environmental Health Hazard Assessment (OEHHA) and CalEPA risk assessment methodologies and modern statistical methods to examine the trends over time (30).

MATES-V calculated cancer risks based on monitoring data collected at ten fixed sites within the SCAB. None of the fixed monitoring sites are within the local area of the Project site. However, MATES-V has extrapolated the excess cancer risk levels throughout the SCAB by modeling the specific grids. The Project is located within a quadrant of the geographic grid of the MATES-V model which predicted a cancer risk of 600 per million for the area containing the Project site. DPM is included in this cancer risk along with all other TAC sources. As in previous MATES iterations, DPM is the largest contributor to overall air toxics cancer risk. However, the average levels of DPM in MATES V are 53% lower at the 10 monitoring sites compared to MATES IV. Cumulative Project generated TACs are limited to DPM.

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### 3 PROJECT AIR QUALITY ANALYSIS

#### 3.1 INTRODUCTION

This study quantifies air quality emissions generated by construction and operation of the Project and addresses whether the Project conflicts with implementation of the SCAQMD's AQMP and Lead Agency planning regulations. The analysis of Project-generated air emissions determines whether the Project would result in a cumulatively considerable net increase of any criteria pollutant for which the SCAB is in non-attainment under an applicable NAAQS and CAAQS. Additionally, the Project has been evaluated to determine whether the Project would expose sensitive receptors to substantial pollutant concentrations and the impacts of odors. The significance of these potential impacts is described in the following sections.

#### 3.2 STANDARDS OF SIGNIFICANCE

The criteria used to determine the significance of potential Project-related air quality impacts are taken from the *CEQA Guidelines* (14 CCR §§15000, et seq.). Based on these thresholds, a project would result in a significant impact related to air quality if it would (1):

- Conflict with or obstruct implementation of the applicable air quality plan.
- Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in non-attainment under an applicable federal or state ambient air quality standard.
- Expose sensitive receptors to substantial pollutant concentrations.
- Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

The SCAQMD has also developed regional significance thresholds for other regulated pollutants, as summarized at Table 3-1 (31). The SCAQMD's *CEQA Air Quality Significance Thresholds* (April 2019) indicate that any projects in the SCAB with daily emissions that exceed any of the indicated thresholds should be considered as having an individually and cumulatively significant air quality impact.

**TABLE 3-1: MAXIMUM DAILY REGIONAL EMISSIONS THRESHOLDS**

Pollutant	Regional Construction Threshold	Regional Operational Thresholds
NO <sub>x</sub>	100 lbs/day	55 lbs/day
VOC	75 lbs/day	55 lbs/day
PM <sub>10</sub>	150 lbs/day	150 lbs/day
PM <sub>2.5</sub>	55 lbs/day	55 lbs/day
SO <sub>x</sub>	150 lbs/day	150 lbs/day
CO	550 lbs/day	550 lbs/day
Pb	3 lbs/day	3 lbs/day

lbs/day = Pounds Per Day

### 3.3 MODELS EMPLOYED TO ANALYZE AIR QUALITY

#### 3.3.1 CALFEEMOD

Land uses such as the Project affect air quality through construction-source and operational-source emissions.

In May 2022 the California Air Pollution Control Officers Association (CAPCOA) in conjunction with other California air districts, including the SCAQMD, released the latest version of CalFEEMod version 2022.1. The purpose of this model is to calculate construction-source and operational-source criteria pollutant (VOCs, NO<sub>x</sub>, SO<sub>x</sub>, CO, PM<sub>10</sub>, and PM<sub>2.5</sub>) and GHG emissions from direct and indirect sources; and quantify applicable air quality and GHG reductions achieved from mitigation measures (32). Accordingly, the latest version of CalFEEMod has been used for this Project to determine construction and operational air quality emissions. Output from the model runs for both construction and operational activity are provided in Appendices 3.1 through 3.2.

### 3.4 CONSTRUCTION EMISSIONS

Construction activities associated with the Project will result in emissions of VOCs, NO<sub>x</sub>, SO<sub>x</sub>, CO, PM<sub>10</sub>, and PM<sub>2.5</sub>. Construction related emissions are expected from the following construction activities:

- Demolition
- Site Preparation
- Grading
- Building Construction
- Paving
- Architectural Coating

#### DEMOLITION ACTIVITIES

Based on information provided by the Project Applicant, it is anticipated that a 2,300 square foot structure would be removed from PAs 30 and 31 during the demolition phase of construction.

#### GRADING ACTIVITIES

Dust is typically a major concern during grading activities. Because such emissions are not amenable to collection and discharge through a controlled source, they are called “fugitive emissions”. Fugitive dust emissions rates vary as a function of many parameters (soil silt, soil moisture, wind speed, area disturbed, number of vehicles, depth of disturbance or excavation, etc.). CalFEEMod was utilized to calculate fugitive dust emissions resulting from this phase of activity. The Project is expected to be a balanced site.

#### ON-ROAD TRIPS

Construction generates on-road vehicle emissions from vehicle usage for workers, hauling, and vendors commuting to and from the site. The number of workers, hauling, and vendor trips are

presented below in Table 3-2. It should be noted that for Vendor Trips, specifically, CalEEMod only assigns Vendor Trips to the Building Construction phase. Vendor trips would likely occur during all phases of construction. As such, the CalEEMod defaults for Vendor Trips have been adjusted based on a ratio of the total vendor trips to the number of days of each subphase of activity. It should be noted that because the paving and architectural coating phases overlap with building construction, vendor trips were not assigned for these phases.

**TABLE 3-2: CONSTRUCTION TRIP ASSUMPTIONS**

Phase Name	Worker Trips / Day	Vendor Trips / Day	Hauling Trips / Day	Worker Trip Length	Vendor Trip Length	Hauling Trip Length
<b>PA 30/31</b>						
Demolition	8	1	1	18.5	10.2	20
Site Preparation	10	1	0	18.5	10.2	20
Grading	20	3	0	18.5	10.2	20
Building Construction	56	12	0	18.5	10.2	20
Paving	10	0	0	18.5	10.2	20
Architectural Coating	11	0	0	18.5	10.2	20
<b>PA 32</b>						
Site Preparation	10	3	0	18.5	10.2	20
Grading	20	9	0	18.5	10.2	20
Building Construction	242	61	0	18.5	10.2	20
Paving	10	0	0	18.5	10.2	20
Architectural Coating	48	0	0	18.5	10.2	20
<b>PA 33</b>						
Site Preparation	10	2	0	18.5	10.2	20
Grading	20	8	0	18.5	10.2	20
Building Construction	232	31	0	18.5	10.2	20
Paving	10	0	0	18.5	10.2	20
Architectural Coating	46	0	0	18.5	10.2	20
<b>PA 34</b>						
Site Preparation	10	1	0	18.5	10.2	20
Grading	20	1	0	18.5	10.2	20
Building Construction	59	15	0	18.5	10.2	20
Paving	10	0	0	18.5	10.2	20
Architectural Coating	12	0	0	18.5	10.2	20

### 3.4.1 CONSTRUCTION DURATION

Construction is anticipated to begin in January 2023 and will last through December 2025. The construction schedule utilized in the analysis, shown in Table 3-3, represents a “worst-case” analysis scenario. That is, should construction occur subsequent to the assumed Table 3-3 timeframes, emission factors for construction equipment would diminish as emission regulations

become more stringent over time<sup>3</sup>. The duration of construction activity and associated equipment represents a reasonable approximation of the expected construction fleet as required per *CEQA Guidelines* (1).

**TABLE 3-3: CONSTRUCTION DURATION**

Planning Area	Phase Name	Start Date	End Date	Days
PA 30, 31	Demolition	1/1/2023	1/31/2023	22
	Site Preparation	2/1/2023	2/28/2023	20
	Grading	3/1/2023	5/1/2023	44
	Building Construction	6/1/2023	2/1/2024	176
	Paving	6/1/2023	8/1/2024	306
	Architectural Coating	8/1/2023	2/1/2024	133
PA 32	Site Preparation	2/1/2023	3/1/2023	21
	Grading	6/1/2023	9/1/2023	67
	Building Construction	10/1/2023	7/15/2025	467
	Paving	4/20/2023	10/15/2023	127
	Architectural Coating	1/20/2024	7/15/2025	387
PA 33	Site Preparation	6/1/2024	6/30/2024	20
	Grading	7/1/2024	10/1/2024	67
	Building Construction	1/1/2025	12/15/2025	249
	Paving	11/1/2024	12/31/2024	43
	Architectural Coating	7/20/2025	12/15/2025	106
PA 34	Site Preparation	4/1/2023	4/30/2023	20
	Grading	9/1/2023	10/1/2023	21
	Building Construction	7/29/2024	12/15/2025	361
	Paving	8/1/2025	12/15/2025	97
	Architectural Coating	8/1/2025	12/15/2025	97

### 3.4.2 CONSTRUCTION EQUIPMENT

Consistent with industry standards and typical construction practices, each piece of equipment listed in Tables 3-4 through 3-6 will operate up to a total of eight (8) hours per day, or more than two-thirds of the period during which construction activities are allowed pursuant to the code.

<sup>3</sup> As shown in the CalEEMod User's Guide Version 2020.4.0, Section 4.3 "Off-Road Equipment" as the analysis year increases, emission factors for the same equipment pieces decrease due to the natural turnover of older equipment being replaced by newer less polluting equipment and new regulatory requirements.

**TABLE 3-4: CONSTRUCTION EQUIPMENT ASSUMPTIONS PA 30-31 (1 OF 3)**

Construction Activity	Equipment <sup>1</sup>	Amount	Hours Per Day
Demolition	Concrete/Industrial Saws	1	8
	Excavators	1	8
	Rubber Tired Dozers	1	8
Site Preparation	Crawler Tractors	2	8
	Rubber Tired Dozers	2	8
Grading	Crawler Tractors	2	8
	Excavators	2	8
	Graders	1	8
	Rubber Tired Dozers	1	8
	Scrapers	2	8
Building Construction	Cranes	1	8
	Forklifts	3	8
	Generator Sets	2	8
	Tractors/Loaders/Backhoes	2	8
	Welders	2	8
Paving	Pavers	1	8
	Paving Equipment	2	8
	Rollers	1	8
Architectural Coating	Air Compressors	1	8

<sup>1</sup> In order to account for fugitive dust emissions, Crawler Tractors were used in lieu of Tractors/Loaders/Backhoes during the site preparation and grading phases of construction.

**TABLE 3-5: CONSTRUCTION EQUIPMENT ASSUMPTIONS PA 32-33 (2 OF 3)**

Construction Activity	Equipment <sup>1</sup>	Amount	Hours Per Day
Site Preparation	Crawler Tractors	2	8
	Rubber Tired Dozers	2	8
Grading	Crawler Tractors	2	8
	Excavators	2	8
	Graders	1	8
	Rubber Tired Dozers	1	8
	Scrapers	2	8
Building Construction	Cranes	1	8
	Forklifts	3	8

Construction Activity	Equipment <sup>1</sup>	Amount	Hours Per Day
	Generator Sets	2	8
	Tractors/Loaders/Backhoes	3	8
	Welders	2	8
Paving	Pavers	1	8
	Paving Equipment	2	8
	Rollers	1	8
Architectural Coating	Air Compressors	1	8

<sup>1</sup> In order to account for fugitive dust emissions, Crawler Tractors were used in lieu of Tractors/Loaders/Backhoes during the site preparation and grading phases of construction.

**TABLE 3-6: CONSTRUCTION EQUIPMENT ASSUMPTIONS PA 34 (3 OF 3)**

Construction Activity	Equipment <sup>1</sup>	Amount	Hours Per Day
Site Preparation	Crawler Tractors	2	8
	Rubber Tired Dozers	2	8
Grading	Crawler Tractors	2	8
	Excavators	2	8
	Graders	1	8
	Rubber Tired Dozers	1	8
	Scrapers	2	8
Building Construction	Cranes	1	8
	Forklifts	3	8
	Generator Sets	2	8
	Tractors/Loaders/Backhoes	3	8
	Welders	2	8
Paving	Pavers	1	8
	Paving Equipment	2	8
	Rollers	1	8
Architectural Coating	Air Compressors	1	8

<sup>1</sup> In order to account for fugitive dust emissions, Crawler Tractors were used in lieu of Tractors/Loaders/Backhoes during the site preparation and grading phases of construction.

### 3.4.3 CONSTRUCTION EMISSIONS SUMMARY

#### IMPACTS WITHOUT MITIGATION

CalEEMod calculates maximum daily emissions for summer and winter periods. The estimated maximum daily construction emissions without mitigation are summarized on Table 3-7. Detailed

construction model outputs are presented in Appendix 3.1. Under the assumed scenarios, emissions resulting from the Project construction would exceed criteria pollutant thresholds established by the SCAQMD for emissions of VOC and NO<sub>x</sub>.

#### IMPACTS WITH MITIGATION

The estimated maximum daily construction emissions with mitigation are summarized on Table 3-8. MM-1 through MM-4 are recommended to reduce the severity of the impacts. Detailed construction model outputs are presented in Appendix 3.1. After implementation of MM-1 through MM-4, Project construction-source emissions will not exceed criteria pollutant thresholds established by the SCAQMD for emissions of any criteria pollutant.

**TABLE 3-7: OVERALL CONSTRUCTION EMISSIONS SUMMARY – WITHOUT MITIGATION**

Year	Area	Emissions (lbs/day)					
		VOC	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
2023	Summer						
	PA 30/31	17.10	41.20	34.60	0.06	4.91	2.85
	PA 32	4.95	46.90	42.60	0.07	5.38	3.15
	PA 33	0.00	0.00	0.00	0.00	0.00	0.00
	PA 34	4.31	41.10	34.50	0.06	5.35	3.22
	Winter						
	PA 30/31	17.10	41.20	34.10	0.06	5.35	3.22
	PA 32	3.59	29.50	42.20	0.05	5.37	3.22
	PA 33	0.00	0.00	0.00	0.00	0.00	0.00
	PA 34	4.30	41.10	34.10	0.06	4.90	2.84
	<b>Maximum Daily Emissions (2023)</b>	<b>26.36</b>	<b>129.20</b>	<b>111.70</b>	<b>0.19</b>	<b>15.64</b>	<b>9.28</b>
	SCAQMD Regional Threshold	75	100	550	150	150	55
	<b>Threshold Exceeded?</b>	<b>NO</b>	<b>YES</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>
2024	Summer						
	PA 30/31	0.61	5.32	7.81	0.01	0.39	0.27
	PA 32	24.50	19.20	43.60	0.05	5.00	1.67
	PA 33	4.05	38.00	33.20	0.06	5.19	3.07
	PA 34	1.91	15.20	21.70	0.03	1.53	0.79
	Winter						
	PA 30/31	16.90	21.70	30.10	0.04	2.03	1.11
	PA 32	24.40	19.50	37.70	0.05	5.00	1.67
	PA 33	4.05	38.00	32.80	0.06	4.78	2.70
	PA 34	1.90	15.30	20.50	0.03	1.53	0.79
	<b>Maximum Daily Emissions (2024)</b>	<b>47.25</b>	<b>94.50</b>	<b>121.10</b>	<b>0.18</b>	<b>13.34</b>	<b>6.27</b>
	SCAQMD Regional Threshold	75	100	550	150	150	55
	<b>Threshold Exceeded?</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

Year	Area	Emissions (lbs/day)					
		VOC	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
2025	Summer						
	PA 30/31	0.00	0.00	0.00	0.00	0.00	0.00
	PA 32	24.20	18.00	41.50	0.05	4.91	1.59
	PA 33	77.10	16.90	40.10	0.04	4.49	1.47
	PA 34	16.10	20.50	31.40	0.05	2.00	1.03
	Winter						
	PA 30/31	0.00	0.00	0.00	0.00	0.00	0.00
	PA 32	24.10	18.20	36.00	0.05	4.91	1.59
	PA 33	77.00	17.10	34.80	0.04	4.49	1.47
	PA 34	16.00	20.50	29.80	0.05	2.00	1.03
	<b>Maximum Daily Emissions (2025)</b>	<b>117.40</b>	<b>55.80</b>	<b>113.00</b>	<b>0.14</b>	<b>11.40</b>	<b>4.09</b>
	SCAQMD Regional Threshold	75	100	550	150	150	55
	<b>Threshold Exceeded?</b>	<b>YES</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

Source: CalEEMod construction-source (unmitigated) emissions are presented in Appendix 3.1

**TABLE 3-8: OVERALL CONSTRUCTION EMISSIONS SUMMARY – WITH MITIGATION**

Year	Area	Emissions (lbs/day)					
		VOC	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
2023	Summer						
	PA 30/31	4.10	30.40	38.10	0.06	4.03	2.01
	PA 32	1.46	35.50	46.50	0.07	4.26	2.10
	PA 33	0.00	0.00	0.00	0.00	0.00	0.00
	PA 34	1.23	30.30	38.00	0.06	4.30	2.24
	Winter						
	PA 30/31	4.08	30.40	37.60	0.06	4.30	2.24
	PA 32	2.14	23.40	44.40	0.05	4.32	2.25
	PA 33	0.00	0.00	0.00	0.00	0.00	0.00
	PA 34	1.23	30.30	37.60	0.06	4.01	2.00
	<b>Maximum Daily Emissions (2023)</b>	<b>7.45</b>	<b>96.20</b>	<b>122.60</b>	<b>0.19</b>	<b>12.63</b>	<b>6.49</b>
	SCAQMD Regional Threshold	75	100	550	150	150	55
	<b>Threshold Exceeded?</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>
2024	Summer						
	PA 30/31	0.21	4.87	8.24	0.01	0.18	0.08
	PA 32	6.47	19.70	45.20	0.05	4.73	1.42
	PA 33	1.23	30.50	38.00	0.06	4.31	2.24
	PA 34	0.96	15.50	23.50	0.03	1.26	0.55



Year	Area	Emissions (lbs/day)					
		VOC	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
2025	Winter						
	PA 30/31	4.06	21.80	32.10	0.04	1.56	0.68
	PA 32	6.37	20.00	39.20	0.05	4.73	1.42
	PA 33	1.23	30.60	37.60	0.06	4.07	2.02
	PA 34	0.94	15.60	22.30	0.03	1.26	0.55
	<b>Maximum Daily Emissions (2024)</b>	<b>12.60</b>	<b>88.00</b>	<b>131.20</b>	<b>0.18</b>	<b>11.62</b>	<b>4.67</b>
	SCAQMD Regional Threshold	75	100	550	150	150	55
	<b>Threshold Exceeded?</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>
	Summer						
	PA 30/31	0.00	0.00	0.00	0.00	0.00	0.00
	PA 32	6.28	19.50	43.20	0.05	4.73	1.42
	PA 33	16.80	18.40	41.70	0.04	4.31	1.30
	PA 34	2.56	21.80	33.50	0.05	1.64	0.70
	Winter						
PA 30/31	0.00	0.00	0.00	0.00	0.00	0.00	
PA 32	6.19	19.70	37.70	0.05	4.73	1.42	
PA 33	16.70	18.60	36.40	0.04	4.31	1.30	
PA 34	2.53	21.80	31.90	0.05	1.64	0.70	
<b>Maximum Daily Emissions (2025)</b>	<b>25.64</b>	<b>60.10</b>	<b>118.40</b>	<b>0.14</b>	<b>1.17</b>	<b>0.58</b>	
SCAQMD Regional Threshold	75	100	550	150	150	55	
<b>Threshold Exceeded?</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	

Source: CalEEMod construction-source (mitigated) emissions are presented in Appendix 3.1

### 3.5 OPERATIONAL EMISSIONS

Operational activities associated with the Project will result in emissions of VOCs, NO<sub>x</sub>, SO<sub>x</sub>, CO, PM<sub>10</sub>, and PM<sub>2.5</sub>. Operational emissions are expected from the following primary sources:

- Area Source Emissions
- Energy Source Emissions
- Mobile Source Emissions

#### 3.5.1 AREA SOURCE EMISSIONS

##### ARCHITECTURAL COATINGS

Over a period of time the buildings that are part of this Project will require maintenance and will therefore produce emissions resulting from the evaporation of solvents contained in paints, varnishes, primers, and other surface coatings. The emissions associated with architectural coatings were calculated using CalEEMod.

## **CONSUMER PRODUCTS**

Consumer products include, but are not limited to detergents, cleaning compounds, polishes, personal care products, and lawn and garden products. Many of these products contain organic compounds which when released in the atmosphere can react to form ozone and other photochemically reactive pollutants. The emissions associated with use of consumer products were calculated based on defaults provided within CalEEMod.

## **LANDSCAPE MAINTENANCE EQUIPMENT**

Landscape maintenance equipment would generate emissions from fuel combustion and evaporation of unburned fuel. Equipment in this category would include lawnmowers, shredders/grinders, blowers, trimmers, chain saws, and hedge trimmers used to maintain the landscaping of the Project. It should be noted that as October 9, 2021, Governor Gavin Newsom signed AB 1346. The bill aims to ban the sale of new gasoline-powered equipment under 25 gross horsepower (known as small off-road engines [SOREs]) by 2024. For purposes of analysis, the emissions associated with landscape maintenance equipment were calculated based on assumptions provided in CalEEMod.

### **3.5.2 ENERGY SOURCE EMISSIONS**

#### **COMBUSTION EMISSIONS ASSOCIATED WITH NATURAL GAS AND ELECTRICITY**

Electricity and natural gas are used by almost every project. Criteria pollutant emissions are emitted through the generation of electricity and consumption of natural gas. However, because electrical generating facilities for the Project area are located either outside the region (state) or offset through the use of pollution credits (RECLAIM) for generation within the SCAB, criteria pollutant emissions from offsite generation of electricity are generally excluded from the evaluation of significance and only natural gas use is considered. The emissions associated with natural gas use were calculated using CalEEMod.

### **3.5.3 MOBILE SOURCE EMISSIONS**

The Project related operational air quality emissions derive primarily from vehicle trips generated by the Project, including employee trips to and from the site and truck trips associated with the proposed uses. Trip characteristics available from the *Subarea 29 Specific Plan Amendment Specific Plan Amendment Traffic Study Scoping Assessment* were utilized in this analysis (33).

#### **APPROACH FOR ANALYSIS OF THE PROJECT**

In order to determine emissions from passenger car vehicles and trucks, the CalEEMod defaults were utilized for trip length and trip purpose for the proposed residential land uses. CalEEMod defaults were used for passenger car and truck Fleet mixes.

#### **FUGITIVE DUST RELATED TO VEHICULAR TRAVEL**

Vehicles traveling on paved roads would be a source of fugitive emissions due to the generation of road dust inclusive of break and tire wear particulates. The emissions estimate for travel on paved roads were calculated using CalEEMod.

### 3.5.5 OPERATIONAL EMISSIONS SUMMARY

As previously stated, CalEEMod utilizes summer and winter EMFAC2021 emission factors in order to derive vehicle emissions associated with Project operational activities, which vary by season. The estimated operational-source emissions for buildout of the uses anticipated by the Project (1,470 additional dwelling units and a middle school) are summarized on Table 3-9. Detailed operation model outputs for the Project are presented in Appendix 3.2. As shown on Table 3-9, the Project's daily regional emissions from on-going operations will exceed the regional significance thresholds for emissions of VOCs, NO<sub>x</sub>, and CO. It is important to note that a majority of the VOC emissions are derived from consumer products. CARB is primarily responsible for controlling pollution from consumer products. As such, the Project applicant cannot meaningfully control the use of consumer products by future residents and building users via mitigation, thus, VOC emissions are considered significant and unavoidable as no feasible mitigation measure exists that would reduce the impact to less than significant levels. Additionally, a majority of the operational-source NO<sub>x</sub> and CO emissions would be generated by Project mobile sources (traffic). Neither the Project applicant nor the Lead Agency can substantively or materially affect reductions in Project mobile-source emissions beyond the recommended mitigation measures. Therefore, Project operational-source VOCs, NO<sub>x</sub>, and CO emission exceedances of applicable SCAQMD regional thresholds would be considered significant and unavoidable. Because any emission reductions resulting from implementation of mitigation measures cannot be quantified, the emissions presented below in Table 3-9 are without mitigation.

**TABLE 3-9: SUMMARY OF PEAK OPERATIONAL EMISSIONS – WITHOUT MITIGATION**

Source	Emissions (lbs/day)					
	VOC	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
Summer						
Area Source	79.40	22.80	98.70	0.14	1.81	1.83
Energy Source	0.73	12.50	5.71	8.00E-02	1.01	1.01
Mobile Source	64.80	72.30	698.00	1.73	59.60	11.50
<b>Total Maximum Daily Emissions</b>	<b>144.93</b>	<b>107.60</b>	<b>802.41</b>	<b>1.95</b>	<b>62.42</b>	<b>14.34</b>
SCAQMD Regional Threshold	55	55	550	150	150	55
<b>Threshold Exceeded?</b>	<b>YES</b>	<b>YES</b>	<b>YES</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>
Winter						
Area Source	70.90	21.90	9.34	0.14	1.77	1.77
Energy Source	0.73	12.50	5.71	8.00E-02	1.01	1.01
Mobile Source	60.30	77.80	572.00	1.62	59.60	11.50
<b>Total Maximum Daily Emissions</b>	<b>131.93</b>	<b>112.20</b>	<b>587.05</b>	<b>1.84</b>	<b>62.38</b>	<b>14.28</b>
SCAQMD Regional Threshold	55	55	550	150	150	55
<b>Threshold Exceeded?</b>	<b>YES</b>	<b>YES</b>	<b>YES</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

Source: CalEEMod operational-source emissions are presented in Appendix 3.2.

### 3.6 LOCALIZED SIGNIFICANCE

#### BACKGROUND ON LOCALIZED SIGNIFICANCE THRESHOLD (LST) DEVELOPMENT

The analysis makes use of methodology included in the SCAQMD *Final Localized Significance Threshold Methodology* (LST Methodology). The SCAQMD has established that impacts to air quality are significant if there is a potential to contribute or cause localized exceedances of the federal and/or state ambient air quality standards (NAAQS/CAAQS). Collectively, these are referred to as Localized Significance Thresholds (LSTs).

The SCAQMD established LSTs in response to the SCAQMD Governing Board's Environmental Justice Initiative I-4<sup>4</sup>. LSTs represent the maximum emissions from a project that would not cause or contribute to an exceedance of the most stringent applicable federal or state ambient air quality standard at the nearest residence or sensitive receptor. The SCAQMD states that lead agencies can use the LSTs as another indicator of significance in its air quality impact analyses.

LSTs were developed in response to environmental justice and health concerns raised by the public regarding exposure of individuals to criteria pollutants in local communities. To address the issue of localized significance, the SCAQMD adopted LSTs that show whether a project would cause or contribute to localized air quality impacts and thereby cause or contribute to potential localized adverse health effects. The analysis makes use of methodology included in the *LST Methodology* (34). Based on SCAQMD's guidance, LSTs only apply to concentrations of CO, NO<sub>2</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub>.

#### APPLICABILITY OF LSTs FOR THE PROJECT

For this Project, the appropriate SRA for the LST analysis is the SCAQMD Southwest San Bernardino Valley area (SRA 33). Based on SCAQMD's guidance, LSTs apply to CO, NO<sub>2</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub>. In order to determine the appropriate methodology for determining localized impacts that could occur as a result of Project-related construction, the following process is undertaken:

- Identify the maximum daily on-site emissions that will occur during construction activity:
  - The maximum daily on-site emissions could be based on information provided by the Project Applicant; or
  - The SCAQMD's *Fact Sheet for Applying CalEEMod to Localized Significance Thresholds* and *CalEEMod User's Guide Appendix A: Calculation Details for CalEEMod* can be used to determine the maximum site acreage that is actively disturbed based on the construction equipment fleet and equipment hours as estimated in CalEEMod (35) (36).
- If the total acreage disturbed is less than or equal to 5 acres per day, then the SCAQMD's screening look-up tables are utilized to determine if a Project has the potential to result in a significant impact. The look-up tables establish a maximum daily emissions threshold in lbs/day that can be compared to CalEEMod outputs.

<sup>4</sup> The purpose of SCAQMD's Environmental Justice program is to ensure that everyone has the right to equal protection from air pollution and fair access to the decision-making process that works to improve the quality of air within their communities. Further, the SCAQMD defines Environmental Justice as "...equitable environmental policymaking and enforcement to protect the health of all residents, regardless of age, culture, ethnicity, gender, race, socioeconomic status, or geographic location, from the health effects of air pollution."

- Since total acreage disturbed for the Project is likely greater than 5 acres per day throughout the construction process, then the SCAQMD recommends dispersion modeling to be conducted to determine the actual pollutant concentrations for applicable LSTs in the air. In other words, the maximum daily on-site emissions as calculated in CalEEMod are modeled via air dispersion modeling to calculate the actual concentration in the air (e.g., parts per million or micrograms per cubic meter) in order to determine if any applicable thresholds are exceeded.

### EMISSIONS CONSIDERED

Based on SCAQMD's *LST Methodology*, emissions for concern during construction activities are on-site NO<sub>x</sub>, CO, PM<sub>2.5</sub>, and PM<sub>10</sub>. The *LST Methodology* clearly states (*page 1-4*) that "off-site mobile emissions from the Project should not be included in the emissions compared to LSTs (37)." As such, for purposes of the construction LST analysis, only emissions included in the CalEEMod "on-site" emissions outputs were considered.

### MAXIMUM DAILY DISTURBED-ACREAGE

It is assumed that 5 acres will be disturbed per day can be actively disturbed during construction of the site. In CalEEMod, the Total Acres Graded (TAG) field represents the cumulative distance traversed on the property by the grading equipment. In order to properly grade a piece of land, multiple passes with grading equipment may be required. So even though the lot size is a fixed number of acres, the TAG could be an order of magnitude higher than the footprint of the lot (36). Total Acres Graded (TAG) is a function of the maximum acreage disturbed per day times the number of days of the subphase of construction. As such, the TAG field in CalEEMod has been revised to the following<sup>5</sup>:

- PA 30/31: 100 acres (5 acres per day x 20 days) for site preparation and 220 acres (5 acres per day x 44 days) for grading;
- PA 32: 105 acres (5 acres per day x 21 days) for site preparation and 335 acres (5 acres per day x 67 days) for grading;
- PA 33: 100 acres (5 acres per day x 20 days) for site preparation and 335 acres (5 acres per day x 67 days) for grading; and
- PA 34: 100 acres (5 acres per day x 20 days) for site preparation and 105 acres (5 acres per day x 21 days) for grading.

### DISPERSION MODELING

In order to estimate localized pollutant concentrations resulting from Project construction, the SCAQMD-approved AERMOD dispersion model was utilized. The modeling approach utilized is discussed as follows:

### SOURCES

It should be noted that in order to model worst-case conditions, the highest daily peak on-site emissions resulting from overlapping construction activity were modeled.

<sup>5</sup> CalEEMod does not provide a "Total Acres Graded" field for Demolition, Building Construction, Paving, or Architectural Coating activities.

A ground level release height and a 1 meter (~3.28 feet) initial vertical dimension (sigma z) were utilized for emissions of PM<sub>10</sub> and PM<sub>2.5</sub> consistent with SCAQMD's LST guidance.

In order to account for equipment exhaust emissions from NO<sub>2</sub>, and CO a release height of 5.0 meters was utilized consistent with SCAQMD's LST guidance.

#### **METEOROLOGICAL DATA AND MODEL OPTIONS**

In order to account for meteorological conditions at the Project site, meteorological data from the SCAQMD's Chino Airport (KCNO) monitoring station was utilized, as this is the nearest station to the Project site for which meteorological data is available. Additionally, a receptor height of 2 meters and regulatory default options were utilized consistent with SCAQMD's LST guidance.

#### **RECEPTORS**

As previously stated, LSTs represent the maximum emissions from a project that would not cause or contribute to an exceedance of the most stringent applicable NAAQS and CAAQS at the nearest residence or sensitive receptor. Receptor locations are off-site locations where individuals may be exposed to emissions from Project activities.

Some people are especially sensitive to air pollution and are given special consideration when evaluating air quality impacts from projects. These groups of people include children, the elderly, and individuals with pre-existing respiratory or cardiovascular illness. Structures that house these persons or places where they gather are defined as "sensitive receptors. These structures typically include uses such as residences, hotels, and hospitals where an individual can remain for 24 hours. Consistent with the LST Methodology, the nearest land use where an individual could remain for 24 hours to the Project site will be used to determine construction and operational air quality impacts for emissions of PM<sub>10</sub> and PM<sub>2.5</sub>, since PM<sub>10</sub> and PM<sub>2.5</sub> thresholds are based on a 24-hour averaging time.

LSTs apply, even for non-sensitive land uses, consistent with *LST Methodology* and SCAQMD guidance. Per the *LST Methodology*, commercial and industrial facilities are not included in the definition of sensitive receptor because employees and patrons do not typically remain onsite for a full 24 hours but are typically onsite for 8 hours or less. However, *LST Methodology* explicitly states that "*LSTs based on shorter averaging periods, such as the NO<sub>2</sub> and CO LSTs, could also be applied to receptors such as industrial or commercial facilities since it is reasonable to assume that a worker at these sites could be present for periods of one to eight hours (37).*" Therefore, any adjacent land use where an individual could remain for 1 or 8-hours, which is located at a closer distance to the Project site than the receptor used for PM<sub>10</sub> and PM<sub>2.5</sub> analysis, must be considered to determine construction and operational LST air impacts for emissions of NO<sub>2</sub> and CO since these pollutants have shorter averaging times of 1 or 8-hours. LST significance thresholds are based on state ambient air quality standards for NO<sub>2</sub> and CO and SCAQMD LST guidance and Rule 403 for PM<sub>10</sub> and PM<sub>2.5</sub>. Per the *LST Methodology*, background concentrations of CO and NO<sub>2</sub> are added to the Project contribution in order to calculate the total concentration. Because the entire district is nonattainment for PM<sub>10</sub> and PM<sub>2.5</sub>, background concentrations are not required to be added to the Project contribution.

**PROJECT-RELATED RECEPTORS RELATIVE TO CONSTRUCTION AND OPERATIONAL ACTIVITIES**

Receptors in the Project study area relative to construction and operational activities, including a receptor in the City of Eastvale (R2), are described below and shown on Exhibit 3-A. Localized air quality impacts were evaluated at receptor land uses nearest the Project site. All distances are measured from the Project site boundary to the outdoor living areas (e.g., backyards) or at the building façade, whichever is closer to the Project site.

- R1: Location R1 represents the existing residence at the southwest corner of S. Tesoro Privado and E. Amanecer Privado, approximately 73 feet east of the Project site. Receptor R1 is placed at the private outdoor living areas (backyards) facing the Project site.
- R2: Location R2 represents the existing residence at 5733 Red Haven Street in the City of Eastvale, approximately 38 feet south of the Project site. Receptor R2 is placed at the private outdoor living areas (backyards) facing the Project site.
- R3: Location R3 represents the existing residence at 4807 S. Monarch Place, approximately 99 feet south of the Project site. Receptor R3 is placed at the private outdoor living areas (backyards) facing the Project site.
- R4: Location R4 represents the existing residence at 4677 Sagewood Lane, approximately 22 feet west of the Project site. Receptor R4 is placed at the private outdoor living areas (backyards) facing the Project site.
- R5: Location R5 represents the existing residence at 3902 E. Fincastle Street, approximately 85 feet northeast of the Project site. Receptor R5 is placed at the private outdoor living areas (backyards) facing the Project site.

**CONSTRUCTION-SOURCE LOCALIZED EMISSIONS**

**IMPACTS WITH MITIGATION**

With implementation of mitigation measures MM-1 through MM-4, emissions during the peak construction activity will not exceed the SCAQMD’s localized significance thresholds as illustrated on Table 3-10. As such, the Project’s localized impacts during construction activity would be less than significant. Outputs from the model runs for construction LSTs are provided in Appendix 3.4.

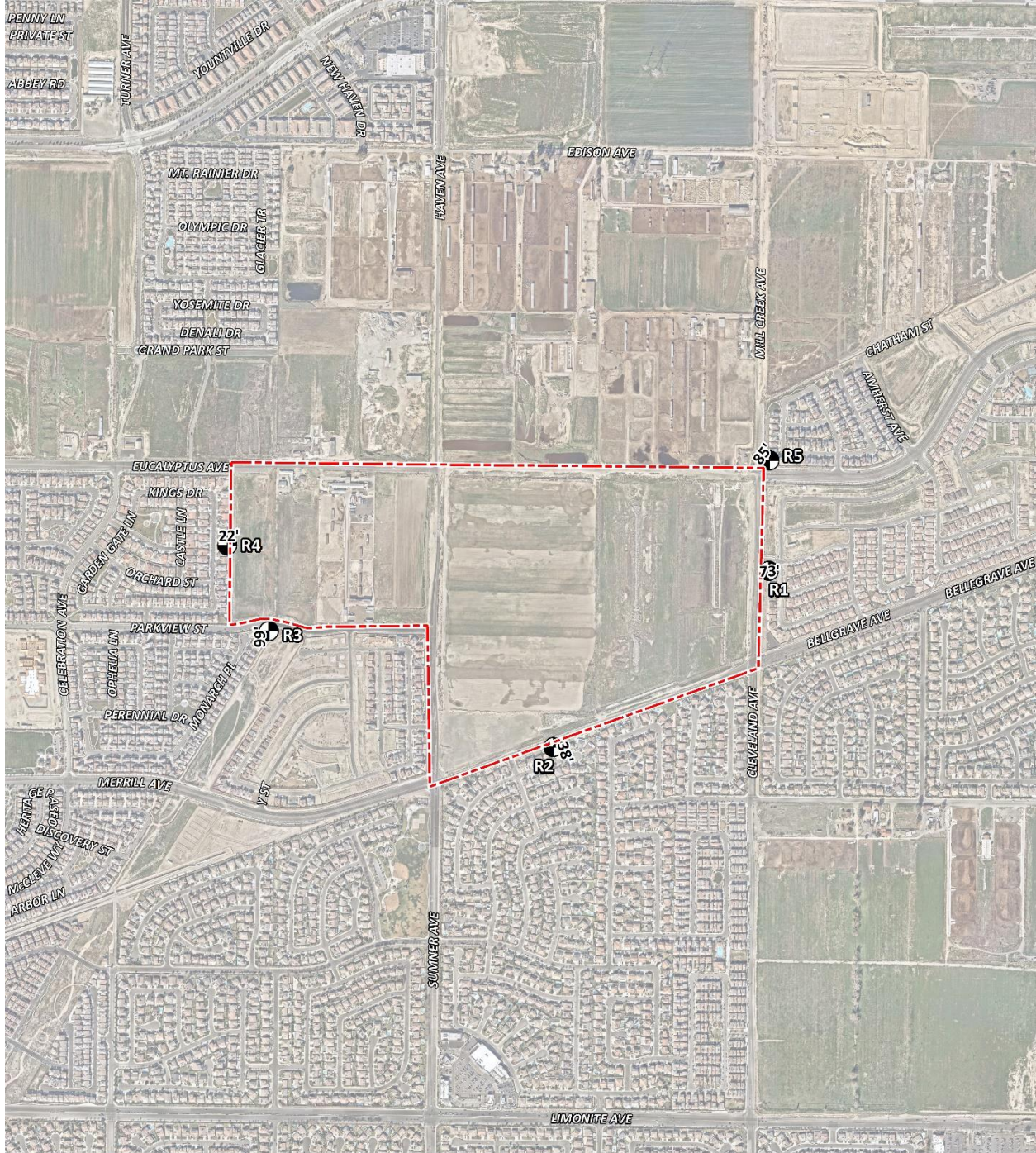
**TABLE 3-10: LOCALIZED SIGNIFICANCE SUMMARY PEAK CONSTRUCTION (WITH MITIGATION)**

Peak Construction	CO		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
	Averaging Time				
	1-Hour	8-Hour	1-Hour	24-Hours	24-Hours
Peak Day Localized Emissions	0.03	0.01	1.85E-02	0.83	0.41
Background Concentration <sup>A</sup>	1.6	1.3	0.10		
<b>Total Concentration</b>	<b>1.63</b>	<b>1.31</b>	<b>0.12</b>	<b>0.83</b>	<b>0.41</b>
SCAQMD Localized Significance Threshold	20	9	0.18	10.4	10.4
<b>Threshold Exceeded?</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

<sup>A</sup> Highest concentration from the last three years of available data.

Note: PM<sub>10</sub> and PM<sub>2.5</sub> concentrations are expressed in µg/m<sup>3</sup>. All others are expressed in ppm

**EXHIBIT 3-A: RECEPTOR LOCATIONS**



**LEGEND:**

- N
- Site Boundary
- Receptor Locations
- Distance from receptor to Project site boundary (in feet)



### OPERATIONAL-SOURCE LOCALIZED EMISSIONS

The LST analysis generally includes on-site sources (area, energy, mobile, and on-site cargo handling equipment – are previously discussed in Section 3.5 of this report). However, it should be noted that the CalEEMod outputs do not separate on-site and off-site emissions from mobile sources. It should be noted that the longest on-site distance is approximately 2.0 miles. As such, a separate CalEEMod run for operational LSTs has been prepared which accounts for the 2.0-mile on-site travel distance. Outputs from the model run for operational LSTs are provided in Appendix 3.2.

### IMPACTS WITHOUT MITIGATION

Without mitigation, emissions during the peak operational activity will not exceed the SCAQMD’s localized significance thresholds as illustrated on Table 3-11. Because any emission reductions resulting from implementation of mitigation measures cannot be quantified, the values presented below in Table 3-11 are without mitigation. As such, the Project’s localized impacts during operational activity would be less than significant. Outputs from the model runs for operational LSTs are provided in Appendix 3.4.

**TABLE 3-11: LOCALIZED SIGNIFICANCE SUMMARY OPERATION (WITHOUT MITIGATION)**

Peak Operation	CO		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
	Averaging Time				
	1-Hour	8-Hour	1-Hour	24-Hours	24-Hours
Peak Day Localized Emissions	4.06E-02	3.08E-02	5.11E-03	1.01	0.41
Background Concentration <sup>A</sup>	1.6	1.3	0.10		
<b>Total Concentration</b>	<b>1.64</b>	<b>1.33</b>	<b>0.11</b>	<b>1.01</b>	<b>0.41</b>
SCAQMD Localized Significance Threshold	20	9	0.18	2.5	2.5
<b>Threshold Exceeded?</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

<sup>A</sup> Highest concentration from the last three years of available data.

Note: PM<sub>10</sub> and PM<sub>2.5</sub> concentrations are expressed in µg/m<sup>3</sup>. All others are expressed in ppm

### 3.7 CO “HOT SPOT” ANALYSIS

As discussed below, the Project would not result in potentially adverse CO concentrations or “hot spots.” Further, detailed modeling of Project-specific CO “hot spots” is not needed to reach this conclusion. An adverse CO concentration, known as a “hot spot”, would occur if an exceedance of the state one-hour standard of 20 ppm or the eight-hour standard of 9 ppm were to occur.

It has long been recognized that CO hotspots are caused by vehicular emissions, primarily when idling at congested intersections. In response, vehicle emissions standards have become increasingly stringent in the last twenty years. Currently, the allowable CO emissions standard in California is a maximum of 3.4 grams/mile for passenger cars (there are requirements for certain vehicles that are more stringent). With the turnover of older vehicles, introduction of cleaner

fuels, and implementation of increasingly sophisticated and efficient emissions control technologies, CO concentration in the SCAB is now designated as attainment.

To establish a more accurate record of baseline CO concentrations affecting the SCAB, a CO “hot spot” analysis was conducted in 2003 for four busy intersections in Los Angeles at the peak morning and afternoon time periods. This “hot spot” analysis did not predict any violation of CO standards, as shown on Table 3-10.

**TABLE 3-12: CO MODEL RESULTS**

Intersection Location	CO Concentrations (ppm)		
	Morning 1-hour	Afternoon 1-hour	8-hour
Wilshire Blvd./Veteran Ave.	4.6	3.5	3.7
Sunset Blvd./Highland Ave.	4	4.5	3.5
La Cienega Blvd./Century Blvd.	3.7	3.1	5.2
Long Beach Blvd./Imperial Hwy.	3	3.1	8.4

Source: 2003 AQMP, Appendix V: Modeling and Attainment Demonstrations

Notes: Federal 1-hour standard is 35 ppm and the deferral 8-hour standard is 9.0 ppm.

Blvd. = Boulevard; Hwy. = Highway

Based on the SCAQMD's 2003 AQMP and the 1992 Federal Attainment Plan for Carbon Monoxide (*1992 CO Plan*), peak carbon monoxide concentrations in the SCAB were a result of unusual meteorological and topographical conditions and not a result of traffic volumes and congestion at a particular intersection. As evidence of this, for example, 8.4 ppm 8-hr CO concentration measured at the Long Beach Blvd. and Imperial Hwy. intersection (highest CO generating intersection within the “hot spot” analysis), only 0.7 ppm was attributable to the traffic volumes and congestion at this intersection; the remaining 7.7 ppm were due to the ambient air measurements at the time the 2003 AQMP was prepared (38). In contrast, an adverse CO concentration, known as a “hot spot”, would occur if an exceedance of the state one-hour standard of 20 parts per million (ppm) or the eight-hour standard of 9 ppm were to occur.

The ambient 1-hr and 8-hr CO concentration within the Project study area is estimated to be 1.5 ppm and 1.2 ppm, respectively (data from I-10 Near Road station for 2020). Therefore, even if the traffic volumes for the proposed Project were double or even triple of the traffic volumes generated at the Long Beach Blvd. and Imperial Hwy. intersection, coupled with the on-going improvements in ambient air quality, the Project would not be capable of resulting in a CO “hot spot” at any study area intersections.

Similar considerations are also employed by other Air Districts when evaluating potential CO concentration impacts. More specifically, the Bay Area Air Quality Management District (BAAQMD) concludes that under existing and future vehicle emission rates, a given project would have to increase traffic volumes at a single intersection by more than 44,000 vehicles per hour (vph)—or 24,000 vph where vertical and/or horizontal air does not mix—in order to generate a significant CO impact (23). Traffic volumes generating the CO concentrations for the “hot spot” analysis is shown on Table 3-13. The busiest intersection evaluated was that at Wilshire Blvd. and

Veteran Ave., which has a daily traffic volume of approximately 100,000 vph and AM/PM traffic volumes of 8,062 vph and 7,719 vph respectively (38). The 2003 AQMP estimated that the 1-hour concentration for this intersection was 4.6 ppm; this indicates that, should the daily traffic volume increase four times to 400,000 vehicles per day, CO concentrations (4.6 ppm x 4= 18.4 ppm) would still not likely exceed the most stringent 1-hour CO standard (20.0 ppm)<sup>6</sup>.

**TABLE 3-13: 2003 AQMP HOT SPOT ANALYSIS TRAFFIC VOLUMES**

Intersection Location	Peak Traffic Volumes (vph)				
	Eastbound (AM/PM)	Westbound (AM/PM)	Southbound (AM/PM)	Northbound (AM/PM)	Total (AM/PM)
Wilshire Blvd./Veteran Ave.	4,954/2,069	1,830/3,317	721/1,400	560/933	8,062/7,719
Sunset Blvd./Highland Ave.	1,417/1,764	1,342/1,540	2,304/1,832	1,551/2,238	6,614/5,374
La Cienega Blvd./Century Blvd.	2,540/2,243	1,890/2,728	1,384/2,029	821/1,674	6,634/8,674
Long Beach Blvd./Imperial Hwy.	1,217/2,020	1,760/1,400	479/944	756/1,150	4,212/5,514

Source: 2003 AQMP

Table 3-14 presents the peak traffic volumes for the top three busiest intersections in the vicinity of the proposed Project under the Opening Year with Proposed Amendment scenario. As shown on Table 3-14, the peak traffic volumes are less than those that were modeled in the 2003 AQMP and the Project would not be capable of resulting in a CO “hot spot” at any study area intersections.

**TABLE 3-14: OPENING YEAR WITH PROJECT PEAK HOUR TRAFFIC VOLUMES**

Intersection Location	Peak Traffic Volumes (vph)				
	Eastbound (AM/PM)	Westbound (AM/PM)	Southbound (AM/PM)	Northbound (AM/PM)	Total (AM/PM)
Euclid Ave./Edison Ave.	761/1,370	874/1,520	1,739/1,730	1,149/1,710	4,523/6,330
Archibald Ave./Ontario Ranch Rd.	824/1,580	890/1,940	1,269/1,440	1,662/1,220	4,645/6,180
Hamner Ave./Ontario Ranch Rd.	1,522/1,700	1,294/1,500	743/900	1,212/1,720	4,771/5,820

### 3.8 AQMP

The Project site is located within the SCAB, which is characterized by relatively poor air quality. The SCAQMD has jurisdiction over an approximately 10,743 square-mile area consisting of the four-county Basin and the Los Angeles County and Riverside County portions of what use to be referred to as the Southeast Desert Air Basin. In these areas, the SCAQMD is principally

<sup>6</sup> Based on the ratio of the CO standard (20.0 ppm) and the modeled value (4.6 ppm)

responsible for air pollution control, and works directly with the SCAG, county transportation commissions, local governments, as well as state and federal agencies to reduce emissions from stationary, mobile, and indirect sources to meet state and federal ambient air quality standards.

Currently, these state and federal air quality standards are exceeded in most parts of the SCAB. In response, the SCAQMD has adopted a series of AQMPs to meet the state and federal ambient air quality standards. AQMPs are updated regularly to more effectively reduce emissions, accommodate growth, and to minimize any negative fiscal impacts of air pollution control on the economy.

In December 2022, the SCAQMD released the Final 2022 AQMP. The 2022 AQMP continues to evaluate current integrated strategies and control measures to meet the NAAQS, as well as explore new and innovative methods to reach its goals. Some of these approaches include utilizing incentive programs, recognizing existing co-benefit programs from other sectors, and developing a strategy with fair-share reductions at the federal, state, and local levels (21). Similar to the 2016 AQMP, the 2022 AQMP incorporates scientific and technological information and planning assumptions, including the 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy (2020-2045 RTP/SCS) and updated emission inventory methodologies for various source categories (22). The Project's consistency with the AQMP will be determined using the 2022 AQMP as discussed below.

Criteria for determining consistency with the AQMP are defined in Chapter 12, Section 12.2 and Section 12.3 of the 1993 CEQA Handbook (39). These indicators are discussed below:

### **3.8.1 CONSISTENCY CRITERION No. 1**

***The proposed Project will not result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations or delay the timely attainment of air quality standards or the interim emissions reductions specified in the AQMP.***

The violations that Consistency Criterion No. 1 refers to are the CAAQS and NAAQS. CAAQS and NAAQS violations would occur if regional or localized significance thresholds were exceeded.

#### ***Construction Impacts – Consistency Criterion 1***

Consistency Criterion No. 1 refers to violations of the CAAQS and NAAQS. CAAQS and NAAQS violations would occur if LSTs or regional significance thresholds were exceeded. As evaluated, the Project's regional and localized construction-source emissions would not exceed applicable regional significance thresholds or LST thresholds. As such, a less than significant impact is expected during construction.

#### ***Operational Impacts – Consistency Criterion 1***

Although the Project's operational emissions would not exceed any of the SCAQMD operational-related LSTs, as evaluated, the Project has the potential to exceed the applicable regional significance thresholds for operational-source emissions of VOCs, NOx, and CO. VOC and NOx are precursors for ozone; thus, Project operational activities would contribute a substantial volume of pollutants to the SoCAB that could delay the attainment of federal and State ozone standards.

Although the Project would implement the mitigation measures discussed above, these measures would not reduce emissions to below the SCAQMD regional thresholds for these pollutants. Therefore, the Project is considered to have the potential to conflict with the AQMP according to this criterion. No additional feasible mitigation measures are available to reduce these impacts as discussed in Section 3.5.5 of this report.

On the basis of the preceding discussion, the Project would be inconsistent with the first criterion.

### **3.8.2 CONSISTENCY CRITERION NO. 2**

***The Project will not exceed the assumptions in the AQMP based on the years of Project build-out phase.***

The 2022 AQMP demonstrates that the applicable ambient air quality standards can be achieved within the timeframes required under federal law. Growth projections from local general plans adopted by cities in the district are provided to the SCAG, which develops regional growth forecasts, which are then used to develop future air quality forecasts for the AQMP. Development consistent with the growth projections in City of Ontario General Plan is considered to be consistent with the AQMP.

#### ***Construction Impacts – Consistency Criterion 2***

Peak day emissions generated by construction activities are largely independent of land use assignments, but rather are a function of development scope and maximum area of disturbance. Irrespective of the site's land use designation, development of the site to its maximum potential would likely occur, with disturbance of the entire site occurring during construction activities.

#### ***Operational Impacts – Consistency Criterion 2***

Implementation of the proposed Project would require approval of a Subarea 29 Specific Plan Amendment, which would add Planning Areas 32, 33, and 34, and would allow additional dwelling units under Planning Areas 30 and 31.

The proposed increase in residential units within the Amendment Area (1,470 units) is consistent with TOP 2050 adopted by the City in August 2022, before the 2022 AQMP was adopted by the SCAQMD Governing Board in December 2022. The 2022 AQMP emissions forecasts are primarily based on demographic projections provided by SCAG in the 2020 RTP/SCS. The TOP 2050 SEIR determined that buildout of TOP 2050, which includes the Project, would be consistent with this criterion because overall VMT would be reduced. Because the 2022 AQMP is based on the same growth projections as presented in the 2020 RTP/SCS, it can be presumed TOP 2050, including the Project, is also consistent with the 2022 AQMP under this criterion.

### **AQMP CONSISTENCY CONCLUSION**

The Project would be inconsistent with AQMP Criterion No. 1, resulting in a determination that impacts in this regard would be considered potentially significant. The Project would implement development-specific air quality mitigation measures identified in this analysis, acting to

generally reduce the Project's construction-source and operational-source air pollutant emissions. Additionally, incorporation of contemporary energy-efficient technologies and operational programs, and compliance with SCAQMD emissions reductions and control requirements act to reduce Project air pollutant emissions generally.

In combination, the Project air quality mitigation measures and regulatory requirements associated with adherence to Title 24 requirements (detailed in Section 2.8) would generally be consistent with and support overarching AQMP air pollution reduction strategies. Based on the analysis presented here, the Project has the potential to conflict with one of the applicable AQMP Consistency Criteria and would result in a significant and unavoidable impact.

### **3.9 TOXIC AIR CONTAMINANTS**

Based on the results of the Subarea 29 Specific Plan Amendment Construction Health Risk Assessment (40), emissions generated from the Project during short-term construction will not exceed SCAQMD significance thresholds for cancer and non-cancer health risks. As such, a less than significant impact is expected.

Land uses such as the proposed Project would not generate substantive TAC emissions during ongoing operations therefore, an operational HRA is not necessary.

### **3.10 POTENTIAL IMPACTS TO SENSITIVE RECEPTORS**

The potential impact of Project-generated air pollutant emissions at sensitive receptors has also been considered. Results of the LST analysis indicate that the Project will not exceed the SCAQMD localized significance thresholds during construction. Therefore, sensitive receptors would not be exposed to substantial pollutant concentrations during Project construction.

Additionally, results of the Construction Health Risk Assessment determined that at the land use with the greatest potential exposure to Project construction-source DPM emissions, also known as the maximally exposed individual receptor (MEIR), the maximum incremental cancer risk attributable to Project construction-source DPM emissions is estimated at 3.69 in one million, which is less than the threshold of 10 in one million. At this same location, non-cancer risks were estimated to be <0.01, which would not exceed the applicable threshold of 1.0. As such, the Project will not cause a significant human health or cancer risk to adjacent land uses as a result of Project construction activity. All other receptors during construction activity would experience less risk than what is identified for this location.

The Project will not exceed the SCAQMD localized significance thresholds during operational activity. Further, Project traffic would not create or result in a CO "hotspot." Therefore, sensitive receptors would not be exposed to substantial pollutant concentrations as the result of Project operations.

#### **3.10.1 FRIANT RANCH CASE**

In December 2018, in the case of *Sierra Club v. County of Fresno* (2018) 6 Cal.5<sup>th</sup> 502, the California Supreme Court held that an EIR air quality analysis must meaningfully connect the identified air

quality impacts to the human health consequences of those impacts, or meaningfully explain why that analysis cannot be provided.

As discussed in briefs filed in the Friant Ranch case, correlating a project's criteria air pollutant emissions to specific health impacts is challenging. The SCAQMD, which has among the most sophisticated air quality modeling and health impact evaluation capability of any of the air districts in the State, and thus it is uniquely situated to express an opinion on how lead agencies should correlate air quality impacts with specific health outcomes (41) noted that it may be "difficult to quantify health impacts for criteria pollutants." SCAQMD used O<sub>3</sub> as an example of why it is impracticable to determine specific health outcomes from criteria pollutants for all but very large, regional-scale projects. First, forming O<sub>3</sub> "takes time and the influence of meteorological conditions for these reactions to occur, so ozone may be formed at a distance downwind from the sources." (SCAQMD, 2015a, p. 11) Second, "it takes a large amount of additional precursor emissions (NO<sub>x</sub> and VOCs) to cause a modeled increase in ambient ozone levels over an entire region," with a 2012 study showing that "reducing NO<sub>x</sub> by 432 tons per day (157,680 tons/year) and reducing VOC by 187 tons per day (68,255 tons/year) would reduce ozone levels at the SCAQMD's monitor site with the highest levels by only 9 parts per billion." (SCAQMD, 2015a, pp. 12-14)

SCAQMD concluded that it "does not currently know of a way to accurately quantify ozone-related health impacts caused by NO<sub>x</sub> or VOC emissions from relatively small projects." (SCAQMD, 2015a, pp. 12-14) The San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) ties the difficulty of correlating the emission of criteria pollutants to health impacts to how ozone and particulate matter are formed, stating that "[b]ecause of the complexity of ozone formation, a specific tonnage amount of NO<sub>x</sub> or VOCs emitted in a particular area does not equate to a particular concentration of ozone in that area." (SJVUAPCD, 2015, p. 4) Similarly, the tonnage of particulate matter "emitted does not always equate to the local particulate matter concentration because it can be transported long distances by wind," and "[s]econdary particulate matter, like ozone, is formed via complex chemical reactions in the atmosphere between precursor chemicals such as sulfur dioxides (SO<sub>x</sub>) and NO<sub>x</sub>," meaning that "the tonnage of particulate matter -forming precursor emissions in an area does not necessarily result in an equivalent concentration of secondary particulate matter in that area." (SJVUAPCD, 2015, p. 5) The disconnect between the amount of precursor pollutants and the concentration of ozone or particulate matter formed makes it difficult to determine potential health impacts, which are related to the concentration of ozone and particulate matter experienced by the receptor rather than levels of NO<sub>x</sub>, SO<sub>x</sub>, and VOCs produced by a source.

Most local agencies lack the data to do their own assessment of potential health impacts from criteria air pollutant emissions, as would be required to establish customized, locally specific thresholds of significance based on potential health impacts from an individual development project. The use of national or "generic" data to fill the gap of missing local data would not yield accurate results because such data does not capture local air patterns, local background conditions, or local population characteristics, all of which play a role in how a population experiences air pollution. Because it is impracticable to accurately isolate the exact cause of a human disease (for example, the role a particular air pollutant plays compared to the role of

other allergens and genetics in cause asthma), existing scientific tools cannot accurately estimate health impacts of the Project's air emissions without undue speculation. Instead, readers are directed to the Project's air quality impact analysis above, which provides extensive information concerning the quantifiable and non-quantifiable health risks related to the Project's construction and long-term operation.

The LST analysis above determined that the Project would not result in emissions exceeding SCAQMD's LSTs. Additionally, it should be noted that the proposed Project is significantly smaller than the Project evaluated in the Friant Ranch case, and consequently would be more difficult to analyze impacts. Therefore, the proposed Project would not be expected to exceed the most stringent applicable federal or state ambient air quality standards for emissions of CO, NO<sub>x</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub>.

As the Project's emissions will comply with federal, state, and local air quality standards, the proposed Project's emissions are not sufficiently high enough to use a regional modeling program to correlate health effects on a basin-wide level and would not provide a reliable indicator of health effects if modeled<sup>7</sup>.

### 3.11 ODORS

The potential for the Project to generate objectionable odors has also been considered. Land uses generally associated with odor complaints include:

- Agricultural uses (livestock and farming)
- Wastewater treatment plants
- Food processing plants
- Chemical plants
- Composting operations
- Refineries
- Landfills
- Dairies
- Fiberglass molding facilities

The Project does not propose or require land uses typically associated with emitting objectionable odors. Potential odor sources associated with the proposed Project may result from construction equipment exhaust and the application of asphalt and architectural coatings during construction activities and the temporary storage of typical solid waste (refuse) associated with the proposed Project's (long-term operational) uses. Standard construction requirements would minimize odor impacts from construction. The construction odor emissions would be temporary, short-term, and intermittent in nature and would cease upon completion of the respective phase of construction and is thus considered less than significant. It is expected that Project-generated refuse would be stored in covered containers and removed at regular intervals

<sup>7</sup> [http://www.aqmd.gov/docs/default-source/ceqa/documents/wgm-1-presentation\\_02172022\\_final.pdf?sfvrsn=6](http://www.aqmd.gov/docs/default-source/ceqa/documents/wgm-1-presentation_02172022_final.pdf?sfvrsn=6)



in compliance with the solid waste regulations. The proposed Project would also be required to comply with SCAQMD Rule 402 to prevent occurrences of public nuisances. Therefore, odors associated with the proposed Project construction and operations would be less than significant and no mitigation is required (42).

### 3.12 CUMULATIVE IMPACTS

As previously shown in Table 2-3, the CAAQS designate the Project site as nonattainment for O<sub>3</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> while the NAAQS designates the Project site as nonattainment for O<sub>3</sub> and PM<sub>2.5</sub>.

The SCAQMD has published a report on how to address cumulative impacts from air pollution: *White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution* (43). In this report the SCAQMD clearly states (Page D-3):

*“...the SCAQMD uses the same significance thresholds for project specific and cumulative impacts for all environmental topics analyzed in an Environmental Assessment or EIR. The only case where the significance thresholds for project specific and cumulative impacts differ is the Hazard Index (HI) significance threshold for TAC emissions. The project specific (project increment) significance threshold is HI > 1.0 while the cumulative (facility-wide) is HI > 3.0. It should be noted that the HI is only one of three TAC emission significance thresholds considered (when applicable) in a CEQA analysis. The other two are the maximum individual cancer risk (MICR) and the cancer burden, both of which use the same significance thresholds (MICR of 10 in 1 million and cancer burden of 0.5) for project specific and cumulative impacts.*

*Projects that exceed the project-specific significance thresholds are considered by the SCAQMD to be cumulatively considerable. This is the reason project-specific and cumulative significance thresholds are the same. Conversely, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant.”*

Therefore, this analysis assumes that individual projects that do not generate operational or construction emissions that exceed the SCAQMD’s recommended daily thresholds for project-specific impacts would also not cause a cumulatively considerable increase in emissions for those pollutants for which SCAB is in nonattainment, and, therefore, would not be considered to have a significant, adverse air quality impact. Alternatively, individual project-related construction and operational emissions that exceed SCAQMD thresholds for project-specific impacts would be considered cumulatively considerable.

#### CONSTRUCTION IMPACTS

The Project-specific evaluation of emissions presented in the preceding analysis demonstrates that proposed Project construction-source air pollutant emissions would not result in exceedances of regional thresholds (after mitigation). Therefore, proposed Project construction-

source emissions would be considered less than significant on a project-specific and cumulative basis.

**OPERATIONAL IMPACTS**

The proposed Project has the potential to result in cumulative impacts associated with on-going operations for emissions of VOC, NO<sub>x</sub>, and CO. Therefore, the proposed Project would have the potential to result in a cumulatively considerable significant impact with respect to operational activity.

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## 5 CERTIFICATIONS

The contents of this air study report represent an accurate depiction of the environmental impacts associated with the proposed Subarea 29 Specific Plan Amendment. The information contained in this air quality impact assessment report is based on the best available data at the time of preparation. If you have any questions, please contact me directly at [hqureshi@urbanxroads.com](mailto:hqureshi@urbanxroads.com)

Haseeb Qureshi  
Principal  
URBAN CROSSROADS, INC.  
[hqureshi@urbanxroads.com](mailto:hqureshi@urbanxroads.com)

### EDUCATION

Master of Science in Environmental Studies  
California State University, Fullerton • May 2010

Bachelor of Arts in Environmental Analysis and Design  
University of California, Irvine • June, 2006

### PROFESSIONAL AFFILIATIONS

AEP – Association of Environmental Planners  
AWMA – Air and Waste Management Association  
ASTM – American Society for Testing and Materials

### PROFESSIONAL CERTIFICATIONS

Planned Communities and Urban Infill – Urban Land Institute • June 2011  
Indoor Air Quality and Industrial Hygiene – EMSL Analytical • April 2008  
Principles of Ambient Air Monitoring – CARB • August 2007  
AB2588 Regulatory Standards – Trinity Consultants • November 2006  
Air Dispersion Modeling – Lakes Environmental • June 2006



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**APPENDIX 2.1:**

**STATE/FEDERAL ATTAINMENT STATUS OF CRITERIA POLLUTANTS**

**Appendix C**  
**Maps and Tables of Area Designations for State and National**  
**Ambient Air Quality Standards**

## **Appendix C**

# **Maps and Tables of Area Designations for State and National Ambient Air Quality Standards**

This attachment fulfills the requirement of Health and Safety Code section 40718 for CARB to publish maps that identify areas where one or more violations of any State ambient air quality standard (State standard) or national ambient air quality standard (national standard) have been measured. The national standards are those promulgated under section 109 of the federal Clean Air Act (42 U.S.C. § 7409).

This attachment is divided into three parts. The first part comprises a table showing the levels, averaging times, and measurement methods for each of the State and national standards. This is followed by a section containing maps and tables showing the area designations for each pollutant for which there is a State standard in the California Code of Regulations, title 17, section 70200. The last section contains maps and tables showing the most current area designations for the national standards.

# Ambient Air Quality Standards

(Updated 5/4/16)

Pollutant	Averaging Time	California Standards <sup>1</sup>		National Standards <sup>1</sup>		
		Concentration <sup>1</sup>	Method <sup>4</sup>	Primary <sup>2,3</sup>	Secondary <sup>2,3</sup>	Method <sup>7</sup>
Ozone (O <sub>3</sub> ) <sup>8</sup>	1 Hour	0.09 ppm (180 µg/m <sup>3</sup> )	Ultraviolet Photometry	—	Same as Primary Standard	Ultraviolet Photometry
	8 Hour	0.070 ppm (137 µg/m <sup>3</sup> )		0.070 ppm (137 µg/m <sup>3</sup> )		
Respirable Particulate Matter (PM <sub>10</sub> ) <sup>9</sup>	24 Hour	50 µg/hr	Gravimetric or Beta Attenuation	150 µg/hr	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/hr		—		
Fine Particulate Matter (PM <sub>2.5</sub> ) <sup>9</sup>	24 Hour	—	—	35 µg/m <sup>3</sup>	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	12 µg/m <sup>3</sup>	Gravimetric or Beta Attenuation	12.0 µg/m <sup>3</sup>	15 µg/m <sup>3</sup>	
Carbon Monoxide (CO)	1 Hour	20 ppm (23 mg/hr)	Non-Dispersive Infrared Photometry (NDR)	35 ppm (40 mg/hr)	—	Non-Dispersive Infrared Photometry (NDR)
	8 Hour	9.0 ppm (10 mg/hr)		9 ppm (10 mg/hr)	—	
	8 Hour (Late Tahoe)	6 ppm (7 mg/hr)		—	—	
Nitrogen Dioxide (NO <sub>2</sub> ) <sup>10</sup>	1 Hour	0.18 ppm (339 µg/m <sup>3</sup> )	Gas Phase Chemiluminescence	100 ppb (188 µg/m <sup>3</sup> )	—	Gas Phase Chemiluminescence
	Annual Arithmetic Mean	0.030 ppm (57 µg/m <sup>3</sup> )		0.053 ppm (100 µg/m <sup>3</sup> )	Same as Primary Standard	
Sulfur Dioxide (SO <sub>2</sub> ) <sup>11</sup>	1 Hour	0.25 ppm (655 µg/hr)	Ultraviolet Fluorescence	75 ppb (196 µg/hr)	—	Ultraviolet Fluorescence; Spectrophotometry (Pararosaniline Method)
	3 Hour	—		—	0.5 ppm (1300 µg/hr)	
	24 Hour	0.04 ppm (105 µg/hr)		0.14 ppm (for certain areas) <sup>12</sup>	—	
	Annual Arithmetic Mean	—		0.030 ppm (for certain areas) <sup>12</sup>	—	
Lead <sup>12, 13</sup>	30 Day Average	1.5 µg/m <sup>3</sup>	Atomic Absorption	—	—	High Volume Sampler and Atomic Absorption
	Calendar Quarter	—		1.5 µg/m <sup>3</sup> (for certain areas) <sup>12</sup>	Same as Primary Standard	
	Rolling 3-Month Average	—		0.15 µg/m <sup>3</sup>		
Visibility Reducing Particles <sup>14</sup>	8 Hour	See footnote 14	Beta Attenuation and Transmittance through Filter Tape	No National Standards		
Sulfates	24 Hour	25 µg/m <sup>3</sup>	Ion Chromatography			
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/hr)	Ultraviolet Fluorescence			
Vinyl Chloride <sup>15</sup>	24 Hour	0.01 ppm (26 µg/m <sup>3</sup> )	Gas Chromatography			

See footnotes on next page ...

1. California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1- and 24-hour), nitrogen dioxide, and particulate matter (PM10, PM2.5, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.
2. National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM10, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150  $\mu\text{g}/\text{m}^3$  is equal to or less than one. For PM2.5, the 24-hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Contact the U.S. Environmental Protection Agency (U.S. EPA) for further clarification and current national policies.
3. Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.
4. Any equivalent measurement method which can be shown to the satisfaction of the CARB to give equivalent results at or near the level of the air quality standard may be used.
5. National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.
6. National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.
7. Reference method as described by the U.S. EPA. An "equivalent method" of measurement may be used but must have a "consistent relationship to the reference method" and must be approved by the U.S. EPA.
8. On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.
9. On December 14, 2012, the national annual PM2.5 primary standard was lowered from 15  $\mu\text{g}/\text{m}^3$  to 12.0  $\mu\text{g}/\text{m}^3$ . The existing national 24-hour PM2.5 standards (primary and secondary) were retained at 35  $\mu\text{g}/\text{m}^3$ , as was the annual secondary standard of 15  $\mu\text{g}/\text{m}^3$ . The existing 24-hour PM10 standards (primary and secondary) of 150  $\mu\text{g}/\text{m}^3$  also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.
10. To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.
11. On June 2, 2010, a new 1-hour SO<sub>2</sub> standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO<sub>2</sub> national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.  
  
Note that the 1-hour national standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the 1-hour national standard to the California standard the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.
12. The CARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.
13. The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard (1.5  $\mu\text{g}/\text{m}^3$  as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.
14. In 1989, the CARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

## Area Designations for the State Ambient Air Quality Standards

The following maps and tables show the area designations for each pollutant with a State standard set forth in the California Code of Regulations, title 17, section 60200. Each area is identified as attainment, nonattainment, nonattainment-transitional, or unclassified for each pollutant, as shown below:

Attainment	A
Nonattainment	N
Nonattainment-Transitional	NA-T
Unclassified	U

In general, CARB designates areas by air basin for pollutants with a regional impact and by county for pollutants with a more local impact. However, when there are areas within an air basin or county with distinctly different air quality deriving from sources and conditions not affecting the entire air basin or county, CARB may designate a smaller area. Generally, when boundaries of the designated area differ from the air basin or county boundaries, the description of the specific area is referenced at the bottom of the summary table.

Figure 1



Last Updated: October 2021  
Air Quality Planning and Science Division, CARB



**Table 1  
California Ambient Air Quality Standards Area Designations for Ozone<sup>1</sup>**

	N	NA-T	U	A
GREAT BASIN VALLEYS AIR BASIN				
Alpine County			U	
Inyo County	N			
Mono County	N			
LAKE COUNTY AIR BASIN				A
LAKE TAHOE AIR BASIN				A
MOJAVE DESERT AIR BASIN	N			
MOUNTAIN COUNTIES AIR BASIN				
Amador County		NA-T		
Calaveras County	N			
El Dorado County (portion)	N			
Mariposa County	N			
Nevada County	N			
Placer County (portion)	N			
Plumas County			U	
Sierra County			U	
Tuolumne County	N			
NORTH CENTRAL COAST AIR BASIN				A
NORTH COAST AIR BASIN				A
NORTHEAST PLATEAU AIR BASIN				A
SACRAMENTO VALLEY AIR BASIN				
Colusa and Glenn Counties				A
Shasta County		NA-T		
Sutter/Yuba Counties				
Sutter Buttes	N			
Remainder of Sutter County	N			
Yuba County	N			
Yolo/Solano Counties		NA-T		
Remainder of Air Basin	N			
SALTON SEA AIR BASIN	N			
SAN DIEGO AIR BASIN	N			
SAN FRANCISCO BAY AREA AIR BASIN	N			
SAN JOAQUIN VALLEY AIR BASIN	N			
SOUTH CENTRAL COAST AIR BASIN				
San Luis Obispo County	N			
Santa Barbara County	N			
Ventura County	N			
SOUTH COAST AIR BASIN	N			

<sup>1</sup> AB 3048 (Olberg) and AB 2525 (Miller) signed into law in 1996, made changes to Health and Safety Code, section 40925.5. One of the changes allows nonattainment districts to become nonattainment-transitional for ozone by operation of law.

Figure 2

## 2021 Area Designations for State Ambient Air Quality Standards PM10



Last Updated: October 2021  
Air Quality Planning and Science Division, CARB

**Table 2  
California Ambient Air Quality Standards Area Designation for  
Suspended Particulate Matter (PM<sub>10</sub>)**

	N	U	A
GREAT BASIN VALLEYS AIR BASIN	N		
LAKE COUNTY AIR BASIN			A
LAKE TAHOE AIR BASIN	N		
MOJAVE DESERT AIR BASIN	N		
MOUNTAIN COUNTIES AIR BASIN			
Amador County		U	
Calaveras County	N		
El Dorado County (portion)	N		
Mariposa County			
- Yosemite National Park	N		
- Remainder of County		U	
Nevada County	N		
Placer County (portion)	N		
Plumas County	N		
Sierra County	N		
Tuolumne County		U	

	N	U	A
NORTH CENTRAL COAST AIR BASIN	N		
NORTH COAST AIR BASIN			
Del Norte, Mendocino, Sonoma (portion) and Trinity Counties			A
Remainder of Air Basin	N		
NORTHEAST PLATEAU AIR BASIN			
Siskiyou County			A
Remainder of Air Basin		U	
SACRAMENTO VALLEY AIR BASIN			
Shasta County			A
Remainder of Air Basin	N		
SALTON SEA AIR BASIN	N		
SAN DIEGO AIR BASIN	N		
SAN FRANCISCO BAY AREA AIR BASIN	N		
SAN JOAQUIN VALLEY AIR BASIN	N		
SOUTH CENTRAL COAST AIR BASIN	N		
SOUTH COAST AIR BASIN	N		

Figure 3

## 2021 Area Designations for State Ambient Air Quality Standards PM2.5



Last Updated: October 2021  
Air Quality Planning and Science Division, CARB

**Table 3  
California Ambient Air Quality Standards Area Designations for  
Fine Particulate Matter (PM<sub>2.5</sub>)**

	N	U	A
GREAT BASIN VALLEYS AIR BASIN			A
LAKE COUNTY AIR BASIN			A
LAKE TAHOE AIR BASIN			A
MOJAVE DESERT AIR BASIN			A
MOUNTAIN COUNTIES AIR BASIN			A
Plumas County			A
- Portola Valley <sup>1</sup>	N		
Remainder of Air Basin		U	
NORTH CENTRAL COAST AIR BASIN			A
NORTH COAST AIR BASIN			A
NORTHEAST PLATEAU AIR BASIN			A
SACRAMENTO VALLEY AIR BASIN			
Butte County	N		
Colusa County			A
Glenn County			A
Placer County (portion)			A
Sacramento County			A
Shasta County			A
Sutter and Yuba Counties			A
Remainder of Air Basin		U	

	N	U	A
SALTON SEA AIR BASIN			
Imperial County			
- City of Calexico <sup>2</sup>	N		
Remainder of Air Basin			A
SAN DIEGO AIR BASIN	N		
SAN FRANCISCO BAY AREA AIR BASIN	N		
SAN JOAQUIN VALLEY AIR BASIN	N		
SOUTH CENTRAL COAST AIR BASIN			A
SOUTH COAST AIR BASIN	N		

<sup>1</sup> California Code of Regulations, title 17, section 60200(c)

<sup>2</sup> California Code of Regulations, title 17, section 60200(a)

Figure 4

**2021  
Area Designations for State  
Ambient Air Quality Standards  
CARBON MONOXIDE**



Last Updated: October 2021  
Air Quality Planning and Science Division, CARB

**Table 4  
California Ambient Air Quality Standards Area Designation for  
Carbon Monoxide\***

	N	NA-T	U	A		N	NA-T	U	A
GREAT BASIN VALLEYS AIR BASIN					SACRAMENTO VALLEY AIR BASIN				
Alpine County			U		Butte County				A
Inyo County				A	Colusa County			U	
Mono County				A	Glenn County			U	
LAKE COUNTY AIR BASIN				A	Placer County (portion)				A
LAKE TAHOE AIR BASIN				A	Sacramento County				A
MOJAVE DESERT AIR BASIN					Shasta County			U	
Kern County (portion)			U		Solano County (portion)				A
Los Angeles County (portion)				A	Sutter County				A
Riverside County (portion)			U		Tehama County			U	
San Bernardino County (portion)				A	Yolo County				A
MOUNTAIN COUNTIES AIR BASIN					Yuba County			U	
Amador County			U		SALTON SEA AIR BASIN				A
Calaveras County			U		SAN DIEGO AIR BASIN				A
El Dorado County (portion)			U		SAN FRANCISCO BAY AREA AIR BASIN				A
Mariposa County			U		SAN JOAQUIN VALLEY AIR BASIN				
Nevada County			U		Fresno County				A
Placer County (portion)			U		Kern County (portion)				A
Plumas County				A	Kings County			U	
Sierra County			U		Madera County			U	
Tuolumne County				A	Merced County			U	
NORTH CENTRAL COAST AIR BASIN					San Joaquin County				A
Monterey County				A	Stanislaus County				A
San Benito County			U		Tulare County				A
Santa Cruz County			U		SOUTH CENTRAL COAST AIR BASIN				A
NORTH COAST AIR BASIN					SOUTH COAST AIR BASIN				A
Del Norte County			U						
Humboldt County				A					
Mendocino County				A					
Sonoma County (portion)			U						
Trinity County			U						
NORTHEAST PLATEAU AIR BASIN			U						

\* The area designated for carbon monoxide is a county or portion of a county

Figure 5

**2021**  
**Area Designations for State**  
**Ambient Air Quality Standards**  
**NITROGEN DIOXIDE**



Last Updated: October 2021  
 Air Quality Planning and Science Division, CARB



**Table 5  
California Ambient Air Quality Standards Area Designations for  
Nitrogen Dioxide**

	<b>N</b>	<b>U</b>	<b>A</b>
GREAT BASIN VALLEYS AIR BASIN			A
LAKE COUNTY AIR BASIN			A
LAKE TAHOE AIR BASIN			A
MOJAVE DESERT AIR BASIN			A
MOUNTAIN COUNTIES AIR BASIN			A
NORTH CENTRAL COAST AIR BASIN			A
NORTH COAST AIR BASIN			A
NORTHEAST PLATEAU AIR BASIN			A

	<b>N</b>	<b>U</b>	<b>A</b>
SACRAMENTO VALLEY AIR BASIN			A
SALTON SEA AIR BASIN			A
SAN DIEGO AIR BASIN			A
SAN FRANCISCO BAY AREA AIR BASIN			A
SAN JOAQUIN VALLEY AIR BASIN			A
SOUTH CENTRAL COAST AIR BASIN			A
SOUTH COAST AIR BASIN			
CA 60 Near-road Portion of San Bernardino, Riverside, and Los Angeles Counties			A
Remainder of Air Basin			A

Figure 6

**2021  
Area Designations for State  
Ambient Air Quality Standards  
SULFUR DIOXIDE**



Last Updated: October 2021  
 Air Quality Planning and Science Division, CARB

**Table 6  
California Ambient Air Quality Standards Area Designation for  
Sulfur Dioxide\***

	N	A		N	A
GREAT BASIN VALLEYS AIR BASIN		A	SACRAMENTO VALLEY AIR BASIN		A
LAKE COUNTY AIR BASIN		A	SALTON SEA AIR BASIN		A
LAKE TAHOE AIR BASIN		A	SAN DIEGO AIR BASIN		A
MOJAVE DESERT AIR BASIN		A	SAN FRANCISCO BAY AREA AIR BASIN		A
MOUNTAIN COUNTIES AIR BASIN		A	SAN JOAQUIN VALLEY AIR BASIN		A
NORTH CENTRAL COAST AIR BASIN		A	SOUTH CENTRAL COAST AIR BASIN		A
NORTH COAST AIR BASIN		A	SOUTH COAST AIR BASIN		A
NORTHEAST PLATEAU AIR BASIN		A			

\* The area designated for sulfur dioxide is a county or portion of a county. Since all areas in the State are in attainment for this standard, air basins are indicated here for simplicity.

Figure 7

**2021  
Area Designations for State  
Ambient Air Quality Standards  
SULFATES**



Last Updated: October 2021  
 Air Quality Planning and Science Division, CARB

**Table 7**  
**California Ambient Air Quality Standards Area Designation for Sulfates**

	N	U	A
GREAT BASIN VALLEYS AIR BASIN			A
LAKE COUNTY AIR BASIN			A
LAKE TAHOE AIR BASIN			A
MOJAVE DESERT AIR BASIN			A
MOUNTAIN COUNTIES AIR BASIN			A
NORTH CENTRAL COAST AIR BASIN			A
NORTH COAST AIR BASIN			A
NORTHEAST PLATEAU AIR BASIN			A

	N	U	A
SACRAMENTO VALLEY AIR BASIN			A
SALTON SEA AIR BASIN			A
SAN DIEGO AIR BASIN			A
SAN FRANCISCO BAY AREA AIR BASIN			A
SAN JOAQUIN VALLEY AIR BASIN			A
SOUTH CENTRAL COAST AIR BASIN			A
SOUTH COAST AIR BASIN			A

Figure 8



Last Updated: October 2021  
 Air Quality Planning and Science Division, CARB

**Table 8**  
**California Ambient Air Quality Standards Area Designations for**  
**Lead (particulate)\***

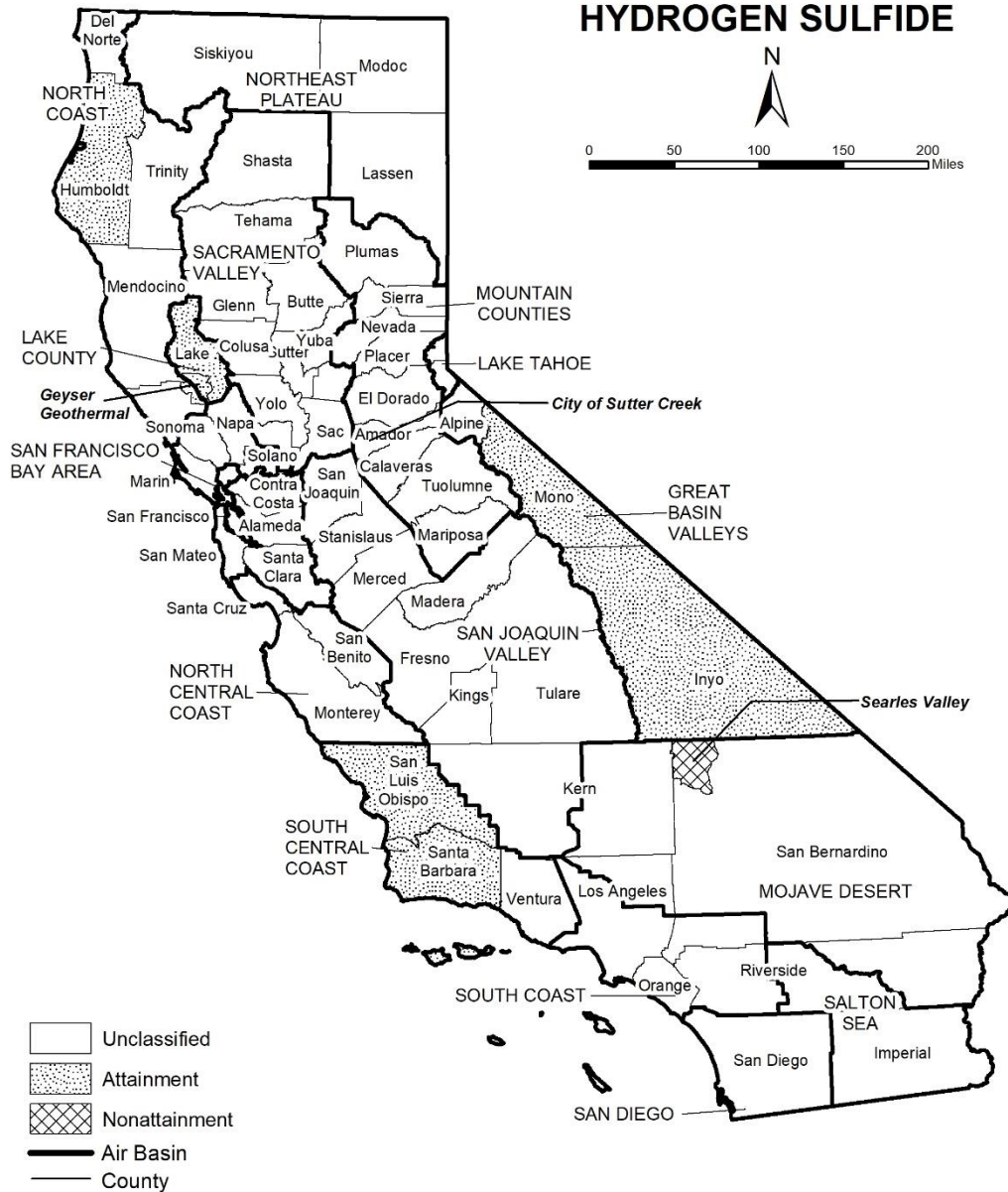
	N	U	A
GREAT BASIN VALLEYS AIR BASIN			A
LAKE COUNTY AIR BASIN			A
LAKE TAHOE AIR BASIN			A
MOJAVE DESERT AIR BASIN			A
MOUNTAIN COUNTIES AIR BASIN			A
NORTH CENTRAL COAST AIR BASIN			A
NORTH COAST AIR BASIN			A
NORTHEAST PLATEAU AIR BASIN			A
SACRAMENTO VALLEY AIR BASIN			A

	N	U	A
SALTON SEA AIR BASIN			A
SAN DIEGO AIR BASIN			A
SAN FRANCISCO BAY AREA AIR BASIN			A
SAN JOAQUIN VALLEY AIR BASIN			A
SOUTH CENTRAL COAST AIR BASIN			A
SOUTH COAST AIR BASIN			A

\* The area designated for lead is a county or portion of a county. Since all areas in the State are in attainment for this standard, air basins are indicated here for simplicity.

Figure 9

### 2021 Area Designations for State Ambient Air Quality Standards HYDROGEN SULFIDE



Last Updated: October 2021  
Air Quality Planning and Science Division, CARB



**Table 9  
California Ambient Air Quality Standards Area Designation for  
Hydrogen Sulfide\***

	N	NA-T	U	A
GREAT BASIN VALLEYS AIR BASIN				
Alpine County			U	
Inyo County				A
Mono County				A
LAKE COUNTY AIR BASIN				A
LAKE TAHOE AIR BASIN			U	
MOJAVE DESERT AIR BASIN				
Kern County (portion)			U	
Los Angeles County (portion)			U	
Riverside County (portion)			U	
San Bernardino County (portion)				
- Searles Valley Planning Area <sup>1</sup>	N			
- Remainder of County			U	
MOUNTAIN COUNTIES AIR BASIN				
Amador County				
- City of Sutter Creek	N			
- Remainder of County			U	
Calaveras County			U	
El Dorado County (portion)			U	
Mariposa County			U	
Nevada County			U	
Placer County (portion)			U	
Plumas County			U	
Sierra County			U	
Tuolumne County			U	

	N	NA-T	U	A
NORTH CENTRAL COAST AIR BASIN			U	
NORTH COAST AIR BASIN				
Del Norte County			U	
Humboldt County				A
Mendocino County			U	
Sonoma County (portion)				
- Geysler Geothermal Area <sup>2</sup>				A
- Remainder of County			U	
Trinity County			U	
NORTHEAST PLATEAU AIR BASIN			U	
SACRAMENTO VALLEY AIR BASIN			U	
SALTON SEA AIR BASIN			U	
SAN DIEGO AIR BASIN			U	
SAN FRANCISCO BAY AREA AIR BASIN			U	
SAN JOAQUIN VALLEY AIR BASIN			U	
SOUTH CENTRAL COAST AIR BASIN				
San Luis Obispo County				A
Santa Barbara County				A
Ventura County			U	
SOUTH COAST AIR BASIN			U	

\* The area designated for hydrogen sulfide is a county or portion of a county

<sup>1</sup> 52 Federal Register 29384 (August 7, 1987)

<sup>2</sup> California Code of Regulations, title 17, section 60200(d)

Figure 10

**2021  
Area Designations for State  
Ambient Air Quality Standards  
VISIBILITY REDUCING PARTICLES**



Last Updated: October 2021  
 Air Quality Planning and Science Division, CARB

**Table 10  
California Ambient Air Quality Standards Area Designation for  
Visibility Reducing Particles**

	N	NA-T	U	A
GREAT BASIN VALLEYS AIR BASIN			U	
LAKE COUNTY AIR BASIN				A
LAKE TAHOE AIR BASIN			U	
MOJAVE DESERT AIR BASIN			U	
MOUNTAIN COUNTIES AIR BASIN			U	
NORTH CENTRAL COAST AIR BASIN			U	
NORTH COAST AIR BASIN			U	
NORTHEAST PLATEAU AIR BASIN			U	

	N	NA-T	U	A
SACRAMENTO VALLEY AIR BASIN			U	
SALTON SEA AIR BASIN			U	
SAN DIEGO AIR BASIN			U	
SAN FRANCISCO BAY AREA AIR BASIN			U	
SAN JOAQUIN VALLEY AIR BASIN			U	
SOUTH CENTRAL COAST AIR BASIN			U	
SOUTH COAST AIR BASIN			U	

## Area Designations for the National Ambient Air Quality Standards

The following maps and tables show the area designations for each pollutant with a national ambient air quality standard. Additional information about the federal area designations is available on the U.S. Environmental Protection Agency (U.S. EPA) website:

<https://www.epa.gov/green-book>

Over the last several years, U.S. EPA has been reviewing the levels of the various national standards. The agency has already promulgated new standard levels for some pollutants and is considering revising the levels for others. Information about the status of these reviews is available on the U.S. EPA website:

<https://www.epa.gov/criteria-air-pollutants>

### Designation Categories

*Suspended Particulate Matter (PM<sub>10</sub>)*. The U.S. EPA uses three categories to designate areas with respect to PM<sub>10</sub>:

- Attainment (A)
- Nonattainment (N)
- Unclassifiable (U)

*Ozone, Fine Suspended Particulate Matter (PM<sub>2.5</sub>), Carbon Monoxide (CO), and Nitrogen Dioxide (NO<sub>2</sub>)*. The U.S. EPA uses two categories to designate areas with respect to these standards:

- Nonattainment (N)
- Unclassifiable/Attainment (U/A)

The national 1-hour ozone standard was revoked effective June 15, 2005, and the area designations map reflects the 2015 national 8-hour ozone standard of 0.070 ppm. Area designations were finalized on August 3, 2018.

On December 14, 2012, the U.S. EPA established a new national annual primary PM<sub>2.5</sub> standard of 12.0 µg/m<sup>3</sup>. Area designations were finalized in December 2014. The current designation map reflects the most recently revised (2012) annual average standard of 12.0 µg/m<sup>3</sup> as well as the 24-hour standard of 35 µg/m<sup>3</sup>, revised in 2006.

On January 22, 2010, the U.S. EPA established a new national 1-hour NO<sub>2</sub> standard of 100 parts per billion (ppb) and retained the annual average standard of 53 ppb. Designations for the primary NO<sub>2</sub> standard became effective on February 29, 2012. All areas of California meet this standard.

*Sulfur Dioxide (SO<sub>2</sub>)*. The U.S. EPA uses three categories to designate areas with respect to the 24-hour and annual average sulfur dioxide standards. These designation categories are:

- Nonattainment (N),
- Unclassifiable (U), and
- Unclassifiable/Attainment (U/A).

On June 2, 2010, the U.S. EPA established a new primary 1-hour SO<sub>2</sub> standard of 75 parts per billion (ppb). At the same time, U.S. EPA revoked the 24-hour and annual average standards. Area designations for the 1-hour SO<sub>2</sub> standard were finalized on December 21, 2017 and are reflected in the area designations map.

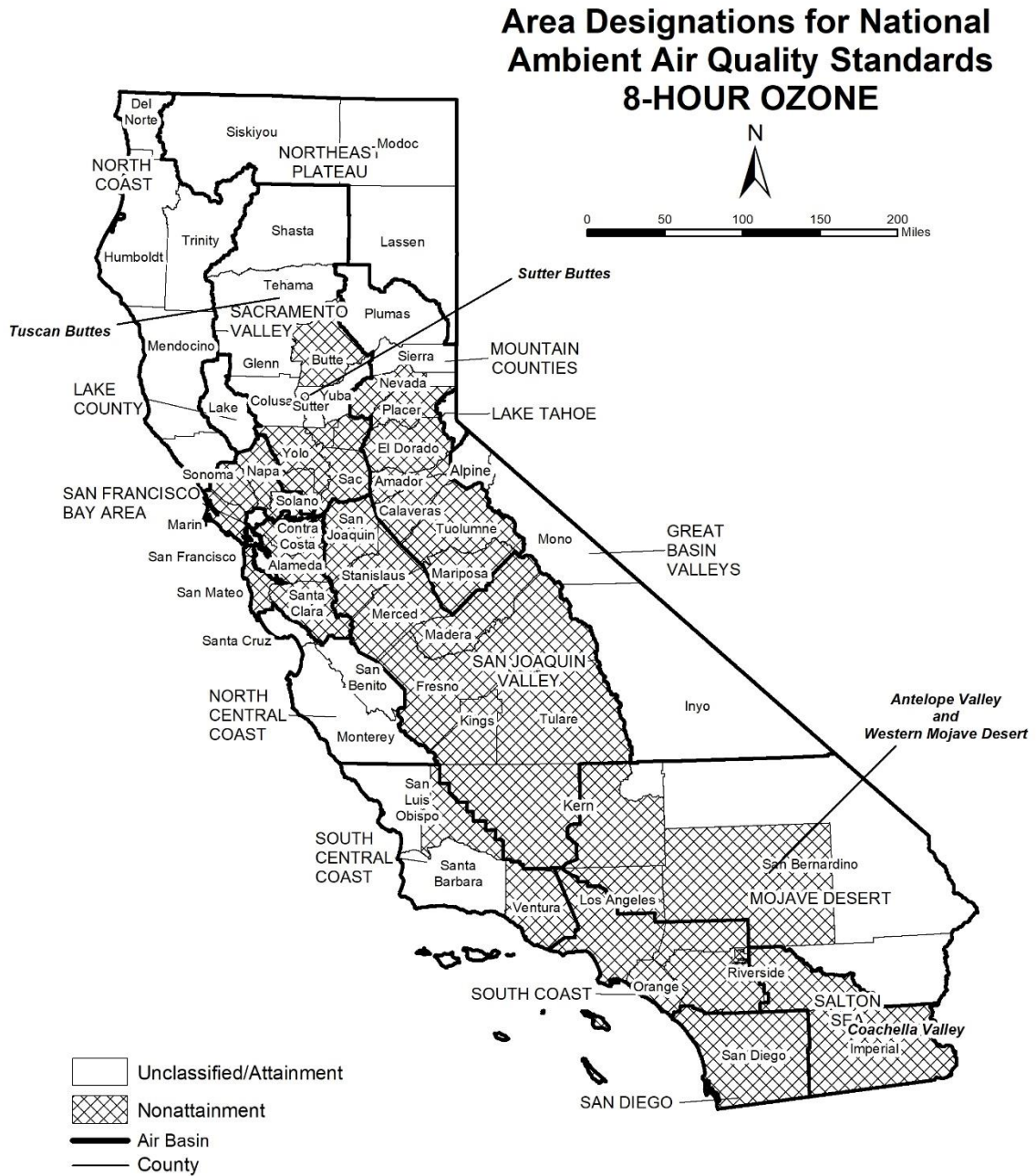
*Lead (particulate)*. The U.S. EPA promulgated a new rolling 3-month average lead standard in October 2008 of 0.15 µg/m<sup>3</sup>. Designations were made for this standard in November 2010.

## **Designation Areas**

From time to time, the boundaries of the California air basins have been changed to facilitate the planning process. CARB generally initiates these changes, and they are not always reflected in the U.S. EPA's area designations. For purposes of consistency, the maps in this attachment reflect area designation boundaries and nomenclature as promulgated by the U.S. EPA. In some cases, these may not be the same as those adopted by CARB. For example, the national area designations reflect the former Southeast Desert Air Basin. In accordance with Health and Safety Code section 39606.1, CARB redefined this area in 1996 to be the Mojave Desert Air Basin and Salton Sea Air Basin. The definitions and boundaries for all areas designated for the national standards can be found in Title 40, Code of Federal Regulations (CFR), Chapter I, Subchapter C, Part 81.305. They are available on the web at:

[https://ecfr.io/Title-40/se40.20.81\\_1305](https://ecfr.io/Title-40/se40.20.81_1305)

Figure 11



Last Updated: October 2021  
 Map reflects the 2015 8-hour ozone standard of 0.070 ppm  
 Air Quality Planning and Science Division, CARB

**Table 11  
National Ambient Air Quality Standards Area Designations for  
8-Hour Ozone\***

	N	U/A
GREAT BASIN VALLEYS AIR BASIN		U/A
LAKE COUNTY AIR BASIN		U/A
LAKE TAHOE AIR BASIN		U/A
MOUNTAIN COUNTIES AIR BASIN		
Amador County	N	
Calaveras County	N	
El Dorado County (portion) <sup>1</sup>	N	
Mariposa County	N	
Nevada County		
- Western Nevada County	N	
- Remainder of County		U/A
Placer County (portion) <sup>1</sup>	N	
Plumas County		U/A
Sierra County		U/A
Tuolumne County	N	
NORTH CENTRAL COAST AIR BASIN		U/A
NORTH COAST AIR BASIN		U/A
NORTHEAST PLATEAU AIR BASIN		U/A
SACRAMENTO VALLEY AIR BASIN		
Butte County	N	
Colusa County		U/A
Glenn County		U/A
Sacramento Metro Area <sup>1</sup>	N	
Shasta County		U/A
Sutter County		
- Sutter Buttes	N	
- Southern portion of Sutter County <sup>1</sup>	N	
- Remainder of Sutter County		U/A
Tehama County		
- Tuscan Buttes	N	
- Remainder of Tehama County		U/A

	N	U/A
SACRAMENTO VALLEY AIR BASIN (cont.)		
Yolo County <sup>1</sup>	N	
Yuba County		U/A
SAN DIEGO COUNTY	N	
SAN FRANCISCO BAY AREA AIR BASIN	N	
SAN JOAQUIN VALLEY AIR BASIN	N	
SOUTH CENTRAL COAST AIR BASIN <sup>2</sup>		
San Luis Obispo County		
- Eastern San Luis Obispo County	N	
- Remainder of County		U/A
Santa Barbara County		U/A
Ventura County		
- Area excluding Anacapa and San Nicolas Islands	N	
- Channel Islands <sup>2</sup>		U/A
SOUTH COAST AIR BASIN <sup>2</sup>	N	
SOUTHEAST DESERT AIR BASIN		
Kern County (portion)	N	
- Indian Wells Valley		U/A
Imperial County	N	
Los Angeles County (portion)	N	
Riverside County (portion)		
- Coachella Valley	N	
- Non-AQMA portion		U/A
San Bernardino County		
- Western portion (AQMA)	N	
- Eastern portion (non-AQMA)		U/A

\* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

NOTE: This map and Table reflect the 2015 8-hour ozone standard of 0.070 ppm.

<sup>1</sup> For this purpose, the Sacramento Metro Area comprises all of Sacramento and Yolo Counties, the Sacramento Valley Air Basin portion of Solano County, the southern portion of Sutter County, and the Sacramento Valley and Mountain Counties Air Basins portions of Placer and El Dorado counties.

<sup>2</sup> South Central Coast Air Basin Channel Islands:

Santa Barbara County includes Santa Cruz, San Miguel, Santa Rosa, and Santa Barbara Islands.

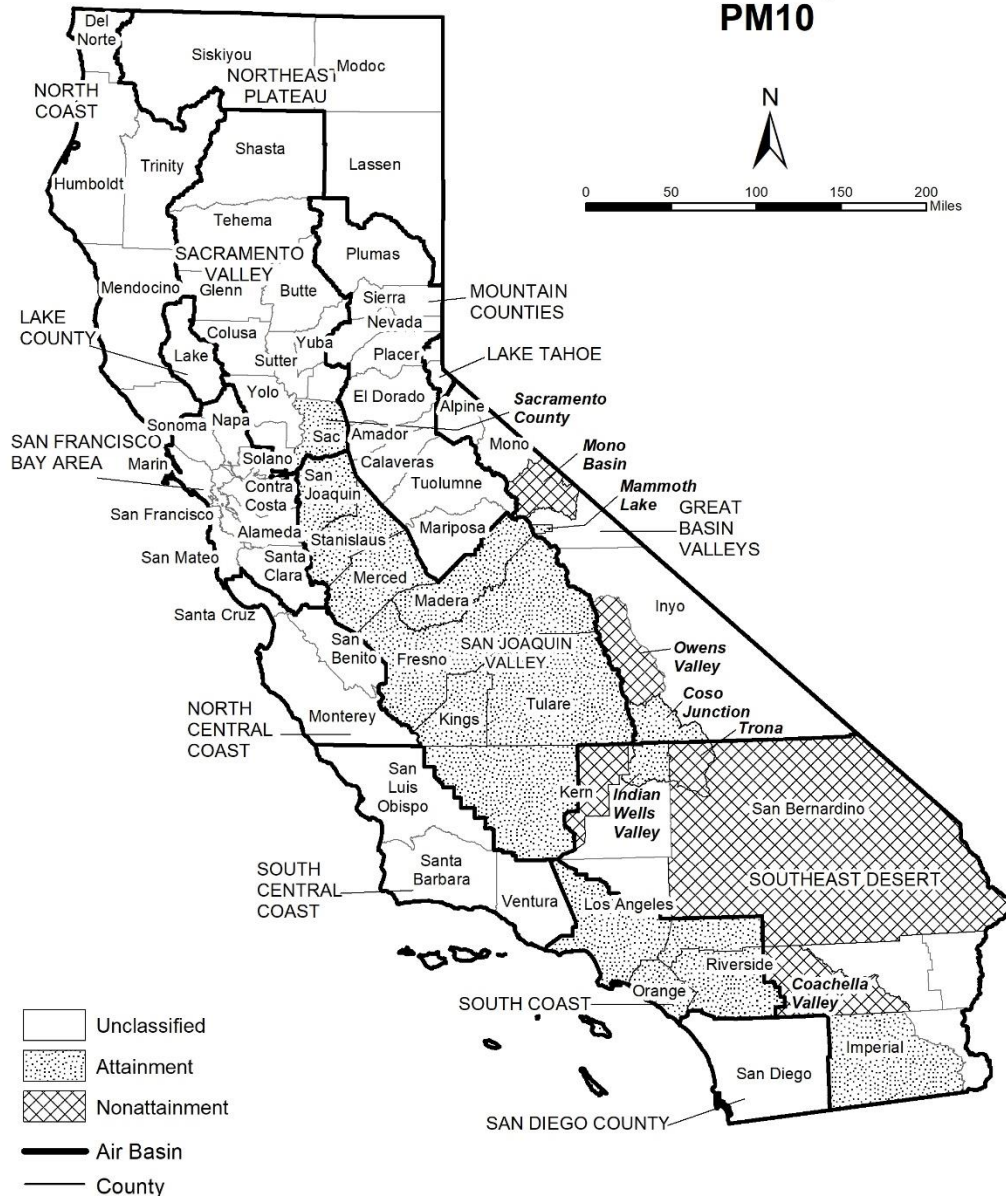
Ventura County includes Anacapa and San Nicolas Islands.

South Coast Air Basin:

Los Angeles County includes San Clemente and Santa Catalina Islands.

Figure 12

### Area Designations for National Ambient Air Quality Standards PM10



Source Date:  
October 2021  
Air Quality Planning and Science Division



**Table 12**  
**National Ambient Air Quality Standards Area Designations for**  
**Suspended Particulate Matter (PM<sub>10</sub>)\***

	N	U	A
GREAT BASIN VALLEYS AIR BASIN			
Alpine County		U	
Inyo County			
- Owens Valley Planning Area	N		
- Coso Junction			A
- Remainder of County		U	
Mono County			
- Mammoth Lake Planning Area			A
- Mono Lake Basin	N		
- Remainder of County		U	
LAKE COUNTY AIR BASIN		U	
LAKE TAHOE AIR BASIN		U	
MOUNTAIN COUNTIES AIR BASIN		U	
NORTH CENTRAL COAST AIR BASIN		U	
NORTH COAST AIR BASIN		U	
NORTHEAST PLATEAU AIR BASIN		U	
SACRAMENTO VALLEY AIR BASIN			
Sacramento County <sup>1</sup>			A
Remainder of Air Basin		U	
SAN DIEGO COUNTY		U	

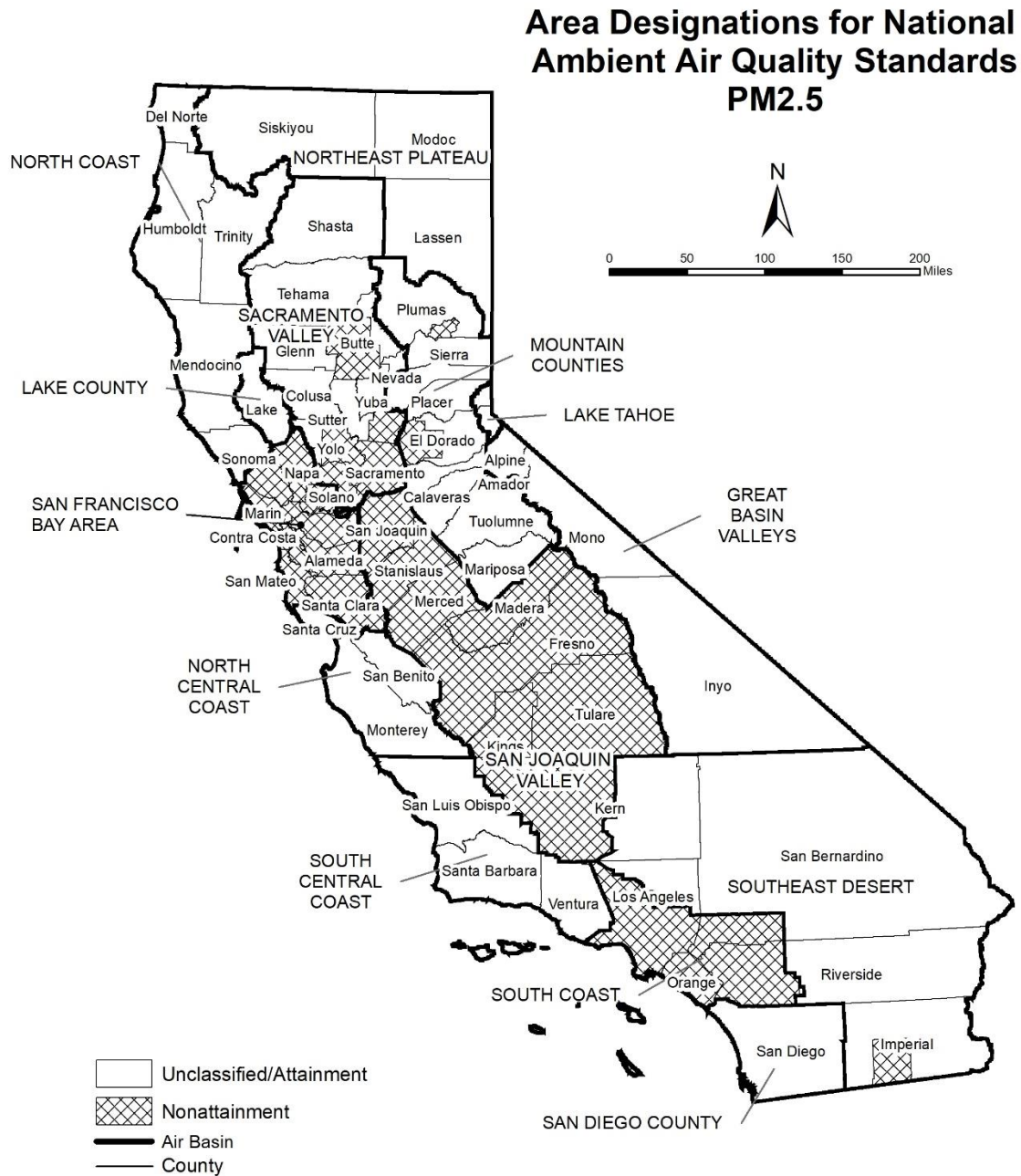
	N	U	A
SAN FRANCISCO BAY AREA AIR BASIN		U	
SAN JOAQUIN VALLEY AIR BASIN			A
SOUTH CENTRAL COAST AIR BASIN		U	
SOUTH COAST AIR BASIN			A
SOUTHEAST DESERT AIR BASIN			
Eastern Kern County			
- Indian Wells Valley			A
- Portion within San Joaquin Valley Planning Area	N		
- Remainder of County		U	
Imperial County			
- Imperial Valley Planning Area <sup>2</sup>			A
- Remainder of County		U	
Los Angeles County (portion)		U	
Riverside County (portion)			
- Coachella Valley	N		
- Non-AQMA portion		U	
San Bernardino County			
- Trona	N		
- Remainder of County	N		

\* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

<sup>1</sup> Air quality in Sacramento County meets the national PM<sub>10</sub> standards. The request for redesignation to attainment was approved by U.S. EPA in September 2013.

<sup>2</sup> The request for redesignation to attainment for the Imperial Valley Planning Area was approved by U.S. EPA in September 2020, effective October 2020.

Figure 13



**Table 13**  
**National Ambient Air Quality Standards Area Designations for**  
**Fine Particulate Matter (PM<sub>2.5</sub>)**

	N	U/A
GREAT BASIN VALLEYS AIR BASIN		U/A
LAKE COUNTY AIR BASIN		U/A
LAKE TAHOE AIR BASIN		U/A
MOUNTAIN COUNTIES AIR BASIN		
Plumas County		
- Portola Valley Portion of Plumas	N	
- Remainder of Plumas County		U/A
Remainder of Air Basin		U/A
NORTH CENTRAL COAST AIR BASIN		U/A
NORTH COAST AIR BASIN		U/A
NORTHEAST PLATEAU AIR BASIN		U/A
SACRAMENTO VALLEY AIR BASIN		
Sacramento Metro Area <sup>1</sup>	N	
Remainder of Air Basin		U/A

	N	U/A
SAN DIEGO COUNTY		U/A
SAN FRANCISCO BAY AREA AIR BASIN <sup>2</sup>	N	
SAN JOAQUIN VALLEY AIR BASIN	N	
SOUTH CENTRAL COAST AIR BASIN		U/A
SOUTH COAST AIR BASIN <sup>3</sup>	N	
SOUTHEAST DESERT AIR BASIN		
Imperial County (portion) <sup>4</sup>	N	
Remainder of Air Basin		U/A

\* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305. This map reflects the 2006 24-hour PM<sub>2.5</sub> standard as well as the 1997 and 2012 PM<sub>2.5</sub> annual standards.

<sup>1</sup> For this purpose, Sacramento Metro Area comprises all of Sacramento and portions of El Dorado, Placer, Solano, and Yolo Counties. Air quality in this area meets the national PM<sub>2.5</sub> standards. A Determination of Attainment for the 2006 24-hour PM<sub>2.5</sub> standard was made by U.S. EPA in June 2017.

<sup>2</sup> Air quality in this area meets the national PM<sub>2.5</sub> standards. A Determination of Attainment for the 2006 24-hour PM<sub>2.5</sub> standard was made by U.S. EPA in June 2017.

<sup>3</sup> Those lands of the Santa Rosa Band of Cahulla Mission Indians in Riverside County are designated Unclassifiable/Attainment.

<sup>4</sup> That portion of Imperial County encompassing the urban and surrounding areas of Brawley, Calexico, El Centro, Heber, Holtville, Imperial, Seeley, and Westmorland. Air quality in this area meets the national PM<sub>2.5</sub> standards. A Determination of Attainment for the 2006 24-hour PM<sub>2.5</sub> standard was made by U.S. EPA in June 2017.

Figure 14

### Area Designations for National Ambient Air Quality Standards CARBON MONOXIDE



Source Date:  
October 2021  
Air Quality Planning and Science Division

**Table 14**  
**National Ambient Air Quality Standards Area Designations for**  
**Carbon Monoxide\***

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		U/A	SACRAMENTO VALLEY AIR BASIN		U/A
LAKE COUNTY AIR BASIN		U/A	SAN DIEGO COUNTY		U/A
LAKE TAHOE AIR BASIN		U/A	SAN FRANCISCO BAY AREA AIR BASIN		U/A
MOUNTAIN COUNTIES AIR BASIN		U/A	SAN JOAQUIN VALLEY AIR BASIN		U/A
NORTH CENTRAL COAST AIR BASIN		U/A	SOUTH CENTRAL COAST AIR BASIN		U/A
NORTH COAST AIR BASIN		U/A	SOUTH COAST AIR BASIN		U/A
NORTHEAST PLATEAU AIR BASIN		U/A	SOUTHEAST DESERT AIR BASIN		U/A

\* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

Figure 15

### Area Designations for National Ambient Air Quality Standards NITROGEN DIOXIDE



Source Date:  
October 2021  
Air Quality Planning and Science Division

**Table 15**  
**National Ambient Air Quality Standards Area Designations for**  
**Nitrogen Dioxide\***

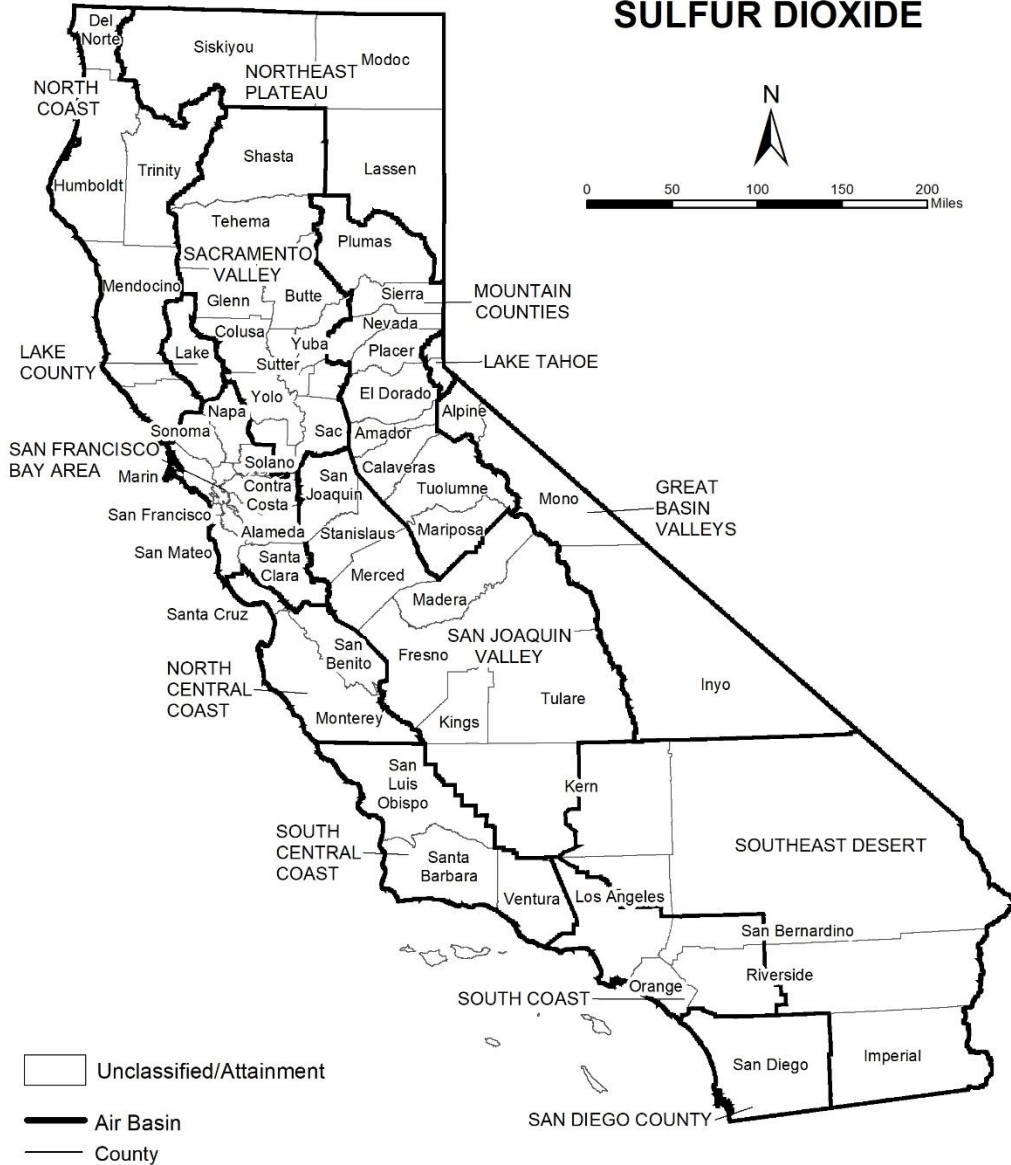
	N	U/A
GREAT BASIN VALLEYS AIR BASIN		U/A
LAKE COUNTY AIR BASIN		U/A
LAKE TAHOE AIR BASIN		U/A
MOUNTAIN COUNTIES AIR BASIN		U/A
NORTH CENTRAL COAST AIR BASIN		U/A
NORTH COAST AIR BASIN		U/A
NORTHEAST PLATEAU AIR BASIN		U/A

	N	U/A
SACRAMENTO VALLEY AIR BASIN		U/A
SAN DIEGO COUNTY		U/A
SAN FRANCISCO BAY AREA AIR BASIN		U/A
SAN JOAQUIN VALLEY AIR BASIN		U/A
SOUTH CENTRAL COAST AIR BASIN		U/A
SOUTH COAST AIR BASIN		U/A
SOUTHEAST DESERT AIR BASIN		U/A

\* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

Figure 16

### Area Designations for National Ambient Air Quality Standards SULFUR DIOXIDE



Source Date:  
October 2021  
Air Quality Planning and Science Division



**Table 16**  
**National Ambient Air Quality Standards Area Designations for Sulfur Dioxide\***

	N	U/A
GREAT BASIN VALLEYS AIR BASIN		U/A
LAKE COUNTY AIR BASIN		U/A
LAKE TAHOE AIR BASIN		U/A
MOUNTAIN COUNTIES AIR BASIN		U/A
NORTH CENTRAL COAST AIR BASIN		U/A
NORTH COAST AIR BASIN		U/A
NORTHEAST PLATEAU AIR BASIN		U/A
SACRAMENTO VALLEY AIR BASIN		U/A
SAN DIEGO COUNTY		U/A
SAN FRANCISCO BAY AREA AIR BASIN		U/A
SAN JOAQUIN VALLEY AIR BASIN		U/A
SOUTH CENTRAL COAST AIR BASIN <sup>1</sup>		U/A
SOUTH COAST AIR BASIN		U/A
SOUTHEAST DESERT AIR BASIN		U/A

\* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.  
 NOTE: This map and table reflect the 2010 1-hour SO<sub>2</sub> standard of 75 ppb.

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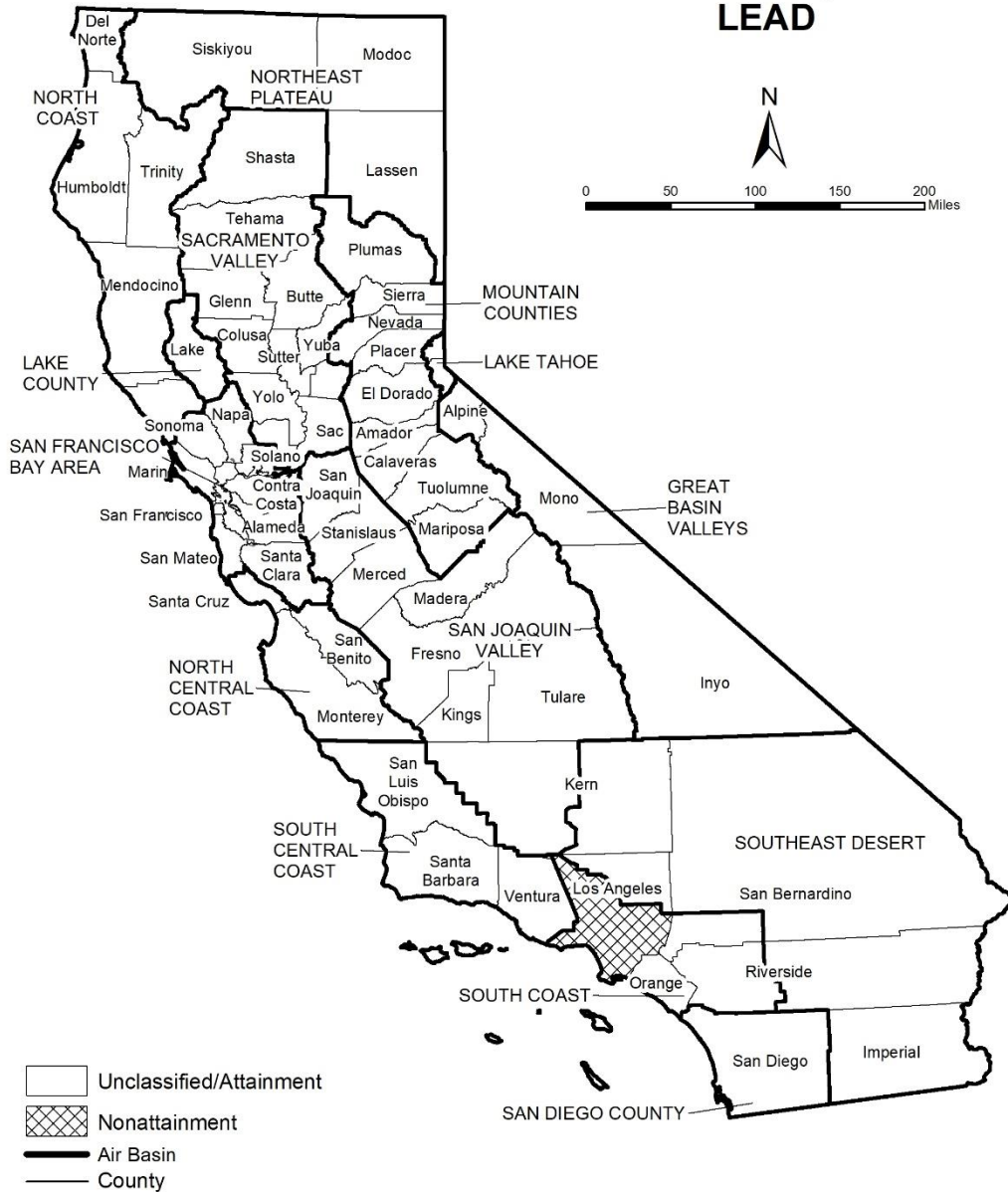
<sup>1</sup> South Central Coast Air Basin Channel Islands:

Santa Barbara County includes Santa Cruz, San Miguel, Santa Rosa, and Santa Barbara Islands.  
 Ventura County includes Anacapa and San Nicolas Islands.

Note that the San Clemente and Santa Catalina Islands are considered part of Los Angeles County, and therefore, are included as part of the South Coast Air Basin.

Figure 17

### Area Designations for National Ambient Air Quality Standards LEAD



Source Date:  
October 2021  
Air Quality Planning and Science Division

**Table 17**  
**National Ambient Air Quality Standards Area Designations for**  
**Lead (particulate)**

	N	U/A
GREAT BASIN VALLEYS AIR BASIN		U/A
LAKE COUNTY AIR BASIN		U/A
LAKE TAHOE AIR BASIN		U/A
MOUNTAIN COUNTIES AIR BASIN		U/A
NORTH CENTRAL COAST AIR BASIN		U/A
NORTH COAST AIR BASIN		U/A
NORTHEAST PLATEAU AIR BASIN		U/A
SACRAMENTO VALLEY AIR BASIN		U/A

	N	U/A
SAN DIEGO COUNTY		U/A
SAN FRANCISCO BAY AREA AIR BASIN		U/A
SAN JOAQUIN VALLEY AIR BASIN		U/A
SOUTH CENTRAL COAST AIR BASIN		U/A
SOUTH COAST AIR BASIN		
Los Angeles County (portion) <sup>1</sup>	N	
Remainder of Air Basin		U/A
SOUTHEAST DESERT AIR BASIN		U/A

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<sup>1</sup> Portion of County in Air Basin, not including Channel Islands

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**APPENDIX 3.1:**

**CALEEMOD CONSTRUCTION EMISSIONS MODEL OUTPUTS**

# 14252 Subarea 29 PA 30-31 Construction Mitigated Detailed Report

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# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	14252 Subarea 29 PA 30-31 Construction Mitigated
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.60
Precipitation (days)	18.8
Location	33.98781318061688, -117.57312059266897
County	San Bernardino-South Coast
City	Ontario
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5260
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Single Family Housing	155	Dwelling Unit	37.9	302,250	1,815,493	—	513	—

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.37	4.10	30.4	38.1	0.06	1.07	2.96	4.03	0.96	1.05	2.01	—	7,104	7,104	0.29	0.13	5.90	7,137
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.35	4.08	30.4	37.6	0.06	1.07	3.82	4.30	0.96	1.81	2.24	—	7,080	7,080	0.29	0.13	0.15	7,111
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.76	1.56	14.0	19.7	0.03	0.36	1.02	1.38	0.33	0.33	0.66	—	3,480	3,480	0.15	0.07	1.15	3,505
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.14	0.28	2.56	3.59	0.01	0.07	0.19	0.25	0.06	0.06	0.12	—	576	576	0.03	0.01	0.19	580

### 2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2023	1.37	4.10	30.4	38.1	0.06	1.07	2.96	4.03	0.96	1.05	2.01	—	7,104	7,104	0.29	0.13	5.90	7,137
2024	0.22	0.21	4.87	8.24	0.01	0.05	0.13	0.18	0.05	0.03	0.08	—	1,198	1,198	0.05	0.01	0.58	1,204
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	1.35	4.08	30.4	37.6	0.06	1.07	3.82	4.30	0.96	1.81	2.24	—	7,080	7,080	0.29	0.13	0.15	7,111
2024	1.32	4.06	21.8	32.1	0.04	0.45	1.11	1.56	0.41	0.26	0.68	—	5,566	5,566	0.25	0.13	0.14	5,610
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.76	1.56	14.0	19.7	0.03	0.36	1.02	1.38	0.33	0.33	0.66	—	3,480	3,480	0.15	0.07	1.15	3,505
2024	0.16	0.33	3.10	4.89	0.01	0.05	0.11	0.16	0.04	0.03	0.07	—	773	773	0.03	0.01	0.24	777
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.14	0.28	2.56	3.59	0.01	0.07	0.19	0.25	0.06	0.06	0.12	—	576	576	0.03	0.01	0.19	580
2024	0.03	0.06	0.57	0.89	< 0.005	0.01	0.02	0.03	0.01	< 0.005	0.01	—	128	128	0.01	< 0.005	0.04	129

### 3. Construction Emissions Details

#### 3.1. Demolition (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29	0.29	9.04	9.46	0.02	0.32	—	0.32	0.29	—	0.29	—	1,764	1,764	0.07	0.01	—	1,770

Demolition	—	—	—	—	—	—	0.10	0.10	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.54	0.57	< 0.005	0.02	—	0.02	0.02	—	0.02	—	106	106	< 0.005	< 0.005	—	107
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.10	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	17.6	17.6	< 0.005	< 0.005	—	17.7
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.05	0.52	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	101	101	< 0.005	< 0.005	0.01	102
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	31.7	31.7	< 0.005	< 0.005	< 0.005	33.2
Hauling	0.01	< 0.005	0.12	0.06	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	87.7	87.7	0.01	0.01	< 0.005	92.1
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	6.17	6.17	< 0.005	< 0.005	0.01	6.26
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.91	1.91	< 0.005	< 0.005	< 0.005	2.00

Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.29	5.29	< 0.005	< 0.005	< 0.005	5.56
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	1.02	1.02	< 0.005	< 0.005	< 0.005	1.04
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.32	0.32	< 0.005	< 0.005	< 0.005	0.33
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.88	0.88	< 0.005	< 0.005	< 0.005	0.92

### 3.3. Site Preparation (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.57	0.57	14.9	18.3	0.03	0.48	—	0.48	0.43	—	0.43	—	3,454	3,454	0.14	0.03	—	3,466
Dust From Material Movement	—	—	—	—	—	—	3.68	3.68	—	1.78	1.78	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.81	1.01	< 0.005	0.03	—	0.03	0.02	—	0.02	—	189	189	0.01	< 0.005	—	190
Dust From Material Movement	—	—	—	—	—	—	0.20	0.20	—	0.10	0.10	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.15	0.18	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	31.3	31.3	< 0.005	< 0.005	—	31.4	
Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—	—	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.06	0.05	0.06	0.70	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	135	135	0.01	< 0.005	0.02	136	
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	31.7	31.7	< 0.005	< 0.005	< 0.005	33.2	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	7.48	7.48	< 0.005	< 0.005	0.01	7.59	
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.74	1.74	< 0.005	< 0.005	< 0.005	1.82	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	1.24	1.24	< 0.005	< 0.005	< 0.005	1.26	
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.29	0.29	< 0.005	< 0.005	< 0.005	0.30	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	

### 3.5. Grading (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.12	1.12	30.1	36.2	0.06	1.07	—	1.07	0.96	—	0.96	—	6,715	6,715	0.27	0.05	—	6,738
Dust From Material Movement:	—	—	—	—	—	—	2.67	2.67	—	0.98	0.98	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.12	1.12	30.1	36.2	0.06	1.07	—	1.07	0.96	—	0.96	—	6,715	6,715	0.27	0.05	—	6,738
Dust From Material Movement:	—	—	—	—	—	—	2.67	2.67	—	0.98	0.98	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.14	3.63	4.36	0.01	0.13	—	0.13	0.12	—	0.12	—	810	810	0.03	0.01	—	812
Dust From Material Movement:	—	—	—	—	—	—	0.32	0.32	—	0.12	0.12	—	—	—	—	—	—	—



Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.66	0.80	< 0.005	0.02	—	0.02	0.02	—	0.02	—	—	134	134	0.01	< 0.005	—	134
Dust From Material Movement	—	—	—	—	—	—	0.06	0.06	—	0.02	0.02	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.11	0.11	1.85	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	294	294	0.01	0.01	1.26	298	
Vendor	0.01	< 0.005	0.11	0.06	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	95.1	95.1	0.01	0.01	0.26	99.7	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.12	1.39	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	269	269	0.01	0.01	0.03	273	
Vendor	0.01	< 0.005	0.12	0.06	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	95.1	95.1	0.01	0.01	0.01	99.5	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.18	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	32.9	32.9	< 0.005	< 0.005	0.07	33.4	
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.5	11.5	< 0.005	< 0.005	0.01	12.0	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	5.45	5.45	< 0.005	< 0.005	0.01	5.53	
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.90	1.90	< 0.005	< 0.005	< 0.005	1.99	

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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### 3.7. Building Construction (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	0.64	14.7	18.2	0.03	0.36	—	0.36	0.32	—	0.32	—	2,941	2,941	0.12	0.02	—	2,951
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	0.64	14.7	18.2	0.03	0.36	—	0.36	0.32	—	0.32	—	2,941	2,941	0.12	0.02	—	2,951
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.27	6.15	7.63	0.01	0.15	—	0.15	0.14	—	0.14	—	1,232	1,232	0.05	0.01	—	1,236
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	1.12	1.39	< 0.005	0.03	—	0.03	0.02	—	0.02	—	204	204	0.01	< 0.005	—	205
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.34	0.31	0.30	5.17	0.00	0.00	0.05	0.05	0.00	0.00	0.00	—	820	820	0.03	0.03	3.51	832
Vendor	0.04	0.01	0.45	0.24	< 0.005	0.01	0.02	0.03	0.01	0.01	0.01	—	380	380	0.03	0.06	1.05	399
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.32	0.29	0.34	3.88	0.00	0.00	0.05	0.05	0.00	0.00	0.00	—	751	751	0.04	0.03	0.09	760
Vendor	0.04	0.01	0.47	0.25	< 0.005	0.01	0.02	0.03	0.01	0.01	0.01	—	380	380	0.03	0.06	0.03	398
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.12	0.14	1.72	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	319	319	0.02	0.01	0.64	323
Vendor	0.02	< 0.005	0.20	0.10	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	—	159	159	0.01	0.02	0.19	167
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.03	0.31	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	52.8	52.8	< 0.005	< 0.005	0.11	53.6
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	26.4	26.4	< 0.005	< 0.005	0.03	27.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.9. Building Construction (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	0.64	14.7	18.2	0.03	0.35	—	0.35	0.32	—	0.32	—	2,942	2,942	0.12	0.02	—	2,952
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.92	1.14	< 0.005	0.02	—	0.02	0.02	—	0.02	—	184	184	0.01	< 0.005	—	185
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.17	0.21	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	30.5	30.5	< 0.005	< 0.005	—	30.6
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.30	0.27	0.32	3.57	0.00	0.00	0.05	0.05	0.00	0.00	0.00	—	736	736	0.04	0.03	0.08	746
Vendor	0.04	0.01	0.45	0.23	< 0.005	0.01	0.02	0.03	0.01	0.01	0.01	—	376	376	0.03	0.06	0.03	394
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.23	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	46.8	46.8	< 0.005	< 0.005	0.09	47.4
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	23.6	23.6	< 0.005	< 0.005	0.03	24.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	7.74	7.74	< 0.005	< 0.005	0.01	7.85
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.90	3.90	< 0.005	< 0.005	< 0.005	4.09
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.11. Paving (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.16	4.82	7.39	0.01	0.05	—	0.05	0.05	—	0.05	—	1,055	1,055	0.04	0.01	—	1,058
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.16	4.82	7.39	0.01	0.05	—	0.05	0.05	—	0.05	—	1,055	1,055	0.04	0.01	—	1,058
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	2.02	3.10	< 0.005	0.02	—	0.02	0.02	—	0.02	—	442	442	0.02	< 0.005	—	443
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.37	0.56	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	73.1	73.1	< 0.005	< 0.005	—	73.4	
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	0.93	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	147	147	0.01	< 0.005	0.63	149	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.06	0.70	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	135	135	0.01	< 0.005	0.02	136	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.03	0.31	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	57.2	57.2	< 0.005	< 0.005	0.11	58.0	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.06	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	9.47	9.47	< 0.005	< 0.005	0.02	9.60	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 3.13. Paving (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.16	4.82	7.39	0.01	0.05	—	0.05	0.05	—	0.05	—	1,054	1,054	0.04	0.01	—	1,058
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.16	4.82	7.39	0.01	0.05	—	0.05	0.05	—	0.05	—	1,054	1,054	0.04	0.01	—	1,058
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	2.02	3.10	< 0.005	0.02	—	0.02	0.02	—	0.02	—	442	442	0.02	< 0.005	—	443
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.37	0.56	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	73.1	73.1	< 0.005	< 0.005	—	73.3
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.05	0.85	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	144	144	0.01	< 0.005	0.58	146	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.05	0.05	0.06	0.64	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	132	132	0.01	< 0.005	0.01	134	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.02	0.02	0.02	0.28	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	56.0	56.0	< 0.005	< 0.005	0.10	56.8	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	9.28	9.28	< 0.005	< 0.005	0.02	9.41	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	

### 3.15. Architectural Coating (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	1.43	1.28	< 0.005	0.04	—	0.04	0.04	—	0.04	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	2.84	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	1.43	1.28	< 0.005	0.04	—	0.04	0.04	—	0.04	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	2.84	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.43	0.38	< 0.005	0.01	—	0.01	0.01	—	0.01	—	53.3	53.3	< 0.005	< 0.005	—	53.5
Architectural Coatings	—	0.85	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.08	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.82	8.82	< 0.005	< 0.005	—	8.85
Architectural Coatings	—	0.16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.06	1.03	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	164	164	0.01	0.01	0.70	166
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.07	0.78	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	150	150	0.01	0.01	0.02	152
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.25	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	45.6	45.6	< 0.005	< 0.005	0.09	46.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	7.55	7.55	< 0.005	< 0.005	0.02	7.66
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.17. Architectural Coating (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	1.43	1.28	< 0.005	0.04	—	0.04	0.04	—	0.04	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	2.84	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.09	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.1	11.1	< 0.005	< 0.005	—	11.2
Architectural Coatings	—	0.18	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.85	1.85	< 0.005	< 0.005	—	1.85
Architectural Coatings	—	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.06	0.71	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	147	147	0.01	0.01	0.02	149
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	9.35	9.35	< 0.005	< 0.005	0.02	9.48
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	1.55	1.55	< 0.005	< 0.005	< 0.005	1.57
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

## 4. Operations Emissions Details

### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	1/1/2023	1/31/2023	5.00	22.0	—
Site Preparation	Site Preparation	2/1/2023	2/28/2023	5.00	20.0	—
Grading	Grading	3/1/2023	5/1/2023	5.00	44.0	—
Building Construction	Building Construction	6/1/2023	2/1/2024	5.00	176	—
Paving	Paving	6/1/2023	8/1/2024	5.00	306	—
Architectural Coating	Architectural Coating	8/1/2023	2/1/2024	5.00	133	—

### 5.2. Off-Road Equipment

#### 5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Interim	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Tier 4 Interim	1.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Tier 3	1.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Tier 3	2.00	8.00	367	0.40
Grading	Excavators	Diesel	Tier 4 Interim	2.00	8.00	36.0	0.38
Grading	Graders	Diesel	Tier 3	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 3	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Tier 3	2.00	8.00	423	0.48
Building Construction	Cranes	Diesel	Tier 3	1.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 4 Interim	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Tier 4 Interim	2.00	8.00	14.0	0.74

Building Construction	Tractors/Loaders/Backh	Diesel	Tier 4 Interim	3.00	8.00	84.0	0.37
Building Construction	Welders	Diesel	Tier 4 Interim	2.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Tier 4 Interim	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Interim	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Tier 4 Interim	1.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Tier 4 Interim	1.00	8.00	37.0	0.48
Site Preparation	Crawler Tractors	Diesel	Tier 4 Interim	2.00	8.00	87.0	0.43
Grading	Crawler Tractors	Diesel	Tier 4 Interim	2.00	8.00	87.0	0.43

## 5.3. Construction Vehicles

### 5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	7.50	18.5	LDA,LDT1,LDT2
Demolition	Vendor	1.00	10.2	HHDT,MHDT
Demolition	Hauling	1.23	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	10.0	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	1.00	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	3.00	10.2	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT



Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	55.8	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	12.0	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	10.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	0.00	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	11.2	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	0.00	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

## 5.4. Vehicles

### 5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

## 5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	612,056	204,019	0.00	0.00	—

## 5.6. Dust Mitigation

### 5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	2,300	—
Site Preparation	—	—	100	0.00	—
Grading	—	—	220	0.00	—
Paving	0.00	0.00	0.00	0.00	1.71

### 5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%

### 5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Single Family Housing	1.71	0%

### 5.8. Construction Electricity Consumption and Emissions Factors

#### kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2023	0.00	532	0.03	< 0.005
2024	0.00	532	0.03	< 0.005

### 5.18. Vegetation

#### 5.18.1. Land Use Change

## 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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## 5.18.1. Biomass Cover Type

## 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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## 5.18.2. Sequestration

## 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	19.8	annual days of extreme heat
Extreme Precipitation	3.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	6.78	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	1	1	3
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A

Drought	N/A	N/A	N/A	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	77.1
AQ-PM	93.4
AQ-DPM	57.1
Drinking Water	100.0
Lead Risk Housing	17.5
Pesticides	84.9
Toxic Releases	67.6
Traffic	18.1
Effect Indicators	—
CleanUp Sites	80.3
Groundwater	98.1
Haz Waste Facilities/Generators	86.6

Impaired Water Bodies	87.0
Solid Waste	98.9
Sensitive Population	—
Asthma	16.5
Cardio-vascular	29.1
Low Birth Weights	49.0
Socioeconomic Factor Indicators	—
Education	52.9
Housing	59.3
Linguistic	68.9
Poverty	35.4
Unemployment	36.4

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	73.60451687
Employed	6.274862056
Education	—
Bachelor's or higher	64.85307327
High school enrollment	100
Preschool enrollment	66.93186193
Transportation	—
Auto Access	63.41588605
Active commuting	24.5989991
Social	—

2-parent households	66.95752598
Voting	70.69164635
Neighborhood	—
Alcohol availability	97.0101373
Park access	52.77813422
Retail density	10.02181445
Supermarket access	6.557166688
Tree canopy	8.238162453
Housing	—
Homeownership	60.78532016
Housing habitability	61.41408957
Low-inc homeowner severe housing cost burden	71.53856025
Low-inc renter severe housing cost burden	18.38829719
Uncrowded housing	64.30129603
Health Outcomes	—
Insured adults	73.78416528
Arthritis	95.7
Asthma ER Admissions	84.6
High Blood Pressure	97.7
Cancer (excluding skin)	89.7
Asthma	34.7
Coronary Heart Disease	98.7
Chronic Obstructive Pulmonary Disease	94.6
Diagnosed Diabetes	96.0
Life Expectancy at Birth	75.7
Cognitively Disabled	56.3
Physically Disabled	69.8

Heart Attack ER Admissions	68.4
Mental Health Not Good	54.9
Chronic Kidney Disease	97.1
Obesity	68.0
Pedestrian Injuries	19.6
Physical Health Not Good	86.2
Stroke	97.8
Health Risk Behaviors	—
Binge Drinking	28.2
Current Smoker	59.6
No Leisure Time for Physical Activity	76.7
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	9.0
Elderly	91.7
English Speaking	35.1
Foreign-born	48.1
Outdoor Workers	88.5
Climate Change Adaptive Capacity	—
Impervious Surface Cover	78.1
Traffic Density	21.6
Traffic Access	23.0
Other Indices	—
Hardship	45.2
Other Decision Support	—
2016 Voting	74.7



### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	72.0
Healthy Places Index Score for Project Location (b)	55.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health and Equity Evaluation Scorecard not completed.

## 8. User Changes to Default Data

Screen	Justification
Land Use	Acreage based on site plan
Construction: Construction Phases	Construction schedule based on data provided by Project team
Construction: Off-Road Equipment	Equipment based on data provided by the Project team
Construction: Dust From Material Movement	Assumes 5 acres will be graded per day
Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Demolition, Site Preparation, Grading, and Building Construction.
Construction: Architectural Coatings	Project will utilize super-compliant architectural coatings

# 14252 Subarea 29 PA 30-31 Construction Unmitigated Detailed Report

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## 8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	14252 Subarea 29 PA 30-31 Construction Unmitigated
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.60
Precipitation (days)	18.8
Location	33.98781318061688, -117.57312059266897
County	San Bernardino-South Coast
City	Ontario
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5260
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Single Family Housing	155	Dwelling Unit	37.9	302,250	1,815,493	—	513	—

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.13	17.1	41.2	34.6	0.06	1.96	2.96	4.91	1.80	1.05	2.85	—	7,104	7,104	0.29	0.13	5.90	7,137
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.12	17.1	41.2	34.1	0.06	1.96	3.82	5.35	1.80	1.81	3.22	—	7,080	7,080	0.29	0.13	0.15	7,111
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.31	6.20	16.8	18.9	0.03	0.78	1.02	1.80	0.72	0.33	1.05	—	3,480	3,480	0.15	0.07	1.15	3,505
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.42	1.13	3.06	3.45	0.01	0.14	0.19	0.33	0.13	0.06	0.19	—	576	576	0.03	0.01	0.19	580

### 2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2023	5.13	17.1	41.2	34.6	0.06	1.96	2.96	4.91	1.80	1.05	2.85	—	7,104	7,104	0.29	0.13	5.90	7,137
2024	0.72	0.61	5.32	7.81	0.01	0.26	0.13	0.39	0.24	0.03	0.27	—	1,198	1,198	0.05	0.01	0.58	1,204
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	5.12	17.1	41.2	34.1	0.06	1.96	3.82	5.35	1.80	1.81	3.22	—	7,080	7,080	0.29	0.13	0.15	7,111
2024	3.24	16.9	21.7	30.1	0.04	0.92	1.11	2.03	0.85	0.26	1.11	—	5,566	5,566	0.25	0.13	0.14	5,610
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	2.31	6.20	16.8	18.9	0.03	0.78	1.02	1.80	0.72	0.33	1.05	—	3,480	3,480	0.15	0.07	1.15	3,505
2024	0.46	1.28	3.26	4.62	0.01	0.15	0.11	0.26	0.14	0.03	0.16	—	773	773	0.03	0.01	0.24	777
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.42	1.13	3.06	3.45	0.01	0.14	0.19	0.33	0.13	0.06	0.19	—	576	576	0.03	0.01	0.19	580
2024	0.08	0.23	0.59	0.84	< 0.005	0.03	0.02	0.05	0.03	< 0.005	0.03	—	128	128	0.01	< 0.005	0.04	129

### 3. Construction Emissions Details

#### 3.1. Demolition (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.76	1.48	14.1	12.2	0.02	0.61	—	0.61	0.56	—	0.56	—	1,764	1,764	0.07	0.01	—	1,770



Demolition	—	—	—	—	—	—	0.10	0.10	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.85	0.73	< 0.005	0.04	—	0.04	0.03	—	0.03	—	106	106	< 0.005	< 0.005	—	107
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.15	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	—	17.6	17.6	< 0.005	< 0.005	—	17.7
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.05	0.52	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	101	101	< 0.005	< 0.005	0.01	102
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	31.7	31.7	< 0.005	< 0.005	< 0.005	33.2
Hauling	0.01	< 0.005	0.12	0.06	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	87.7	87.7	0.01	0.01	< 0.005	92.1
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	6.17	6.17	< 0.005	< 0.005	0.01	6.26
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.91	1.91	< 0.005	< 0.005	< 0.005	2.00

Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.29	5.29	< 0.005	< 0.005	< 0.005	5.56
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	1.02	1.02	< 0.005	< 0.005	< 0.005	1.04
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.32	0.32	< 0.005	< 0.005	< 0.005	0.33
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.88	0.88	< 0.005	< 0.005	< 0.005	0.92

### 3.3. Site Preparation (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.60	3.03	29.3	23.6	0.03	1.53	—	1.53	1.40	—	1.40	—	3,454	3,454	0.14	0.03	—	3,466
Dust From Material Movement	—	—	—	—	—	—	3.68	3.68	—	1.78	1.78	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	0.17	1.60	1.29	< 0.005	0.08	—	0.08	0.08	—	0.08	—	189	189	0.01	< 0.005	—	190
Dust From Material Movement	—	—	—	—	—	—	0.20	0.20	—	0.10	0.10	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.29	0.24	< 0.005	0.02	—	0.02	0.01	—	0.01	—	31.3	31.3	< 0.005	< 0.005	—	31.4	
Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—	—	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.06	0.05	0.06	0.70	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	135	135	0.01	< 0.005	0.02	136	
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	31.7	31.7	< 0.005	< 0.005	< 0.005	33.2	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	7.48	7.48	< 0.005	< 0.005	0.01	7.59	
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.74	1.74	< 0.005	< 0.005	< 0.005	1.82	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	1.24	1.24	< 0.005	< 0.005	< 0.005	1.26	
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.29	0.29	< 0.005	< 0.005	< 0.005	0.30	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	

### 3.5. Grading (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	5.00	4.20	40.9	32.7	0.06	1.96	—	1.96	1.80	—	1.80	—	6,715	6,715	0.27	0.05	—	6,738
Dust From Material Movement:	—	—	—	—	—	—	2.67	2.67	—	0.98	0.98	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	5.00	4.20	40.9	32.7	0.06	1.96	—	1.96	1.80	—	1.80	—	6,715	6,715	0.27	0.05	—	6,738
Dust From Material Movement:	—	—	—	—	—	—	2.67	2.67	—	0.98	0.98	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.60	0.51	4.93	3.94	0.01	0.24	—	0.24	0.22	—	0.22	—	810	810	0.03	0.01	—	812
Dust From Material Movement:	—	—	—	—	—	—	0.32	0.32	—	0.12	0.12	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.90	0.72	< 0.005	0.04	—	0.04	0.04	—	0.04	—	134	134	0.01	< 0.005	—	134	
Dust From Material Movement	—	—	—	—	—	—	0.06	0.06	—	0.02	0.02	—	—	—	—	—	—	—	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.12	0.11	0.11	1.85	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	294	294	0.01	0.01	1.26	298	
Vendor	0.01	< 0.005	0.11	0.06	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	95.1	95.1	0.01	0.01	0.26	99.7	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.11	0.10	0.12	1.39	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	269	269	0.01	0.01	0.03	273	
Vendor	0.01	< 0.005	0.12	0.06	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	95.1	95.1	0.01	0.01	0.01	99.5	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.01	0.01	0.01	0.18	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	32.9	32.9	< 0.005	< 0.005	0.07	33.4	
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.5	11.5	< 0.005	< 0.005	0.01	12.0	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	5.45	5.45	< 0.005	< 0.005	0.01	5.53	
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.90	1.90	< 0.005	< 0.005	< 0.005	1.99	

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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### 3.7. Building Construction (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e	
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.00	1.67	15.0	16.5	0.03	0.69	—	0.69	0.63	—	0.63	—	2,941	2,941	0.12	0.02	—	2,951	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.00	1.67	15.0	16.5	0.03	0.69	—	0.69	0.63	—	0.63	—	2,941	2,941	0.12	0.02	—	2,951	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.84	0.70	6.30	6.91	0.01	0.29	—	0.29	0.26	—	0.26	—	1,232	1,232	0.05	0.01	—	1,236	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	1.15	1.26	< 0.005	0.05	—	0.05	0.05	—	0.05	—	204	204	0.01	< 0.005	—	205	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.34	0.31	0.30	5.17	0.00	0.00	0.05	0.05	0.00	0.00	0.00	—	820	820	0.03	0.03	3.51	832
Vendor	0.04	0.01	0.45	0.24	< 0.005	0.01	0.02	0.03	0.01	0.01	0.01	—	380	380	0.03	0.06	1.05	399
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.32	0.29	0.34	3.88	0.00	0.00	0.05	0.05	0.00	0.00	0.00	—	751	751	0.04	0.03	0.09	760
Vendor	0.04	0.01	0.47	0.25	< 0.005	0.01	0.02	0.03	0.01	0.01	0.01	—	380	380	0.03	0.06	0.03	398
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.12	0.14	1.72	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	319	319	0.02	0.01	0.64	323
Vendor	0.02	< 0.005	0.20	0.10	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	—	159	159	0.01	0.02	0.19	167
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.03	0.31	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	52.8	52.8	< 0.005	< 0.005	0.11	53.6
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	26.4	26.4	< 0.005	< 0.005	0.03	27.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.9. Building Construction (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.90	1.59	14.4	16.4	0.03	0.62	—	0.62	0.57	—	0.57	—	2,942	2,942	0.12	0.02	—	2,952
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.10	0.90	1.03	< 0.005	0.04	—	0.04	0.04	—	0.04	—	184	184	0.01	< 0.005	—	185
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.16	0.19	< 0.005	0.01	—	0.01	0.01	—	0.01	—	30.5	30.5	< 0.005	< 0.005	—	30.6
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.30	0.27	0.32	3.57	0.00	0.00	0.05	0.05	0.00	0.00	0.00	—	736	736	0.04	0.03	0.08	746
Vendor	0.04	0.01	0.45	0.23	< 0.005	0.01	0.02	0.03	0.01	0.01	0.01	—	376	376	0.03	0.06	0.03	394
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.23	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	46.8	46.8	< 0.005	< 0.005	0.09	47.4
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	23.6	23.6	< 0.005	< 0.005	0.03	24.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00



Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	7.74	7.74	< 0.005	< 0.005	0.01	7.85
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.90	3.90	< 0.005	< 0.005	< 0.005	4.09
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.11. Paving (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.69	0.58	5.49	6.96	0.01	0.28	—	0.28	0.26	—	0.26	—	1,055	1,055	0.04	0.01	—	1,058
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.69	0.58	5.49	6.96	0.01	0.28	—	0.28	0.26	—	0.26	—	1,055	1,055	0.04	0.01	—	1,058
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29	0.24	2.30	2.92	< 0.005	0.12	—	0.12	0.11	—	0.11	—	442	442	0.02	< 0.005	—	443
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.42	0.53	< 0.005	0.02	—	0.02	0.02	—	0.02	—	73.1	73.1	< 0.005	< 0.005	—	73.4
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	0.93	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	147	147	0.01	< 0.005	0.63	149
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.06	0.70	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	135	135	0.01	< 0.005	0.02	136
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.03	0.31	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	57.2	57.2	< 0.005	< 0.005	0.11	58.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.06	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	9.47	9.47	< 0.005	< 0.005	0.02	9.60
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.13. Paving (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.66	0.55	5.27	6.96	0.01	0.26	—	0.26	0.24	—	0.24	—	1,054	1,054	0.04	0.01	—	1,058
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.66	0.55	5.27	6.96	0.01	0.26	—	0.26	0.24	—	0.24	—	1,054	1,054	0.04	0.01	—	1,058
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.23	2.21	2.92	< 0.005	0.11	—	0.11	0.10	—	0.10	—	442	442	0.02	< 0.005	—	443
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.40	0.53	< 0.005	0.02	—	0.02	0.02	—	0.02	—	73.1	73.1	< 0.005	< 0.005	—	73.3
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.05	0.85	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	144	144	0.01	< 0.005	0.58	146
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.06	0.64	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	132	132	0.01	< 0.005	0.01	134
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.28	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	56.0	56.0	< 0.005	< 0.005	0.10	56.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	9.28	9.28	< 0.005	< 0.005	0.02	9.41
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.15. Architectural Coating (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	0.20	1.25	1.54	< 0.005	0.05	—	0.05	0.05	—	0.05	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	14.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	0.20	1.25	1.54	< 0.005	0.05	—	0.05	0.05	—	0.05	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	14.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.37	0.46	< 0.005	0.01	—	0.01	0.01	—	0.01	—	53.3	53.3	< 0.005	< 0.005	—	53.5
Architectural Coatings	—	4.26	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.82	8.82	< 0.005	< 0.005	—	8.85
Architectural Coatings	—	0.78	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.06	1.03	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	164	164	0.01	0.01	0.70	166
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.07	0.78	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	150	150	0.01	0.01	0.02	152
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.25	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	45.6	45.6	< 0.005	< 0.005	0.09	46.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	7.55	7.55	< 0.005	< 0.005	0.02	7.66
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.17. Architectural Coating (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22	0.18	1.21	1.53	< 0.005	0.04	—	0.04	0.04	—	0.04	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	14.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.1	11.1	< 0.005	< 0.005	—	11.2
Architectural Coatings	—	0.89	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.85	1.85	< 0.005	< 0.005	—	1.85
Architectural Coatings	—	0.16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.06	0.71	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	147	147	0.01	0.01	0.02	149
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	9.35	9.35	< 0.005	< 0.005	0.02	9.48
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	1.55	1.55	< 0.005	< 0.005	< 0.005	1.57
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

## 4. Operations Emissions Details

### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	1/1/2023	1/31/2023	5.00	22.0	—
Site Preparation	Site Preparation	2/1/2023	2/28/2023	5.00	20.0	—
Grading	Grading	3/1/2023	5/1/2023	5.00	44.0	—
Building Construction	Building Construction	6/1/2023	2/1/2024	5.00	176	—
Paving	Paving	6/1/2023	8/1/2024	5.00	306	—
Architectural Coating	Architectural Coating	8/1/2023	2/1/2024	5.00	133	—

### 5.2. Off-Road Equipment

#### 5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Building Construction	Cranes	Diesel	Average	1.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74

Building Construction	Tractors/Loaders/Backh	Diesel	Average	3.00	8.00	84.0	0.37
Building Construction	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48
Site Preparation	Crawler Tractors	Diesel	Average	2.00	8.00	87.0	0.43
Grading	Crawler Tractors	Diesel	Average	2.00	8.00	87.0	0.43

## 5.3. Construction Vehicles

### 5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	7.50	18.5	LDA,LDT1,LDT2
Demolition	Vendor	1.00	10.2	HHDT,MHDT
Demolition	Hauling	1.23	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	10.0	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	1.00	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	3.00	10.2	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT

Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	55.8	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	12.0	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	10.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	0.00	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	11.2	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	0.00	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

## 5.4. Vehicles

### 5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

## 5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	612,056	204,019	0.00	0.00	—

## 5.6. Dust Mitigation

### 5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	2,300	—
Site Preparation	—	—	100	0.00	—
Grading	—	—	220	0.00	—
Paving	0.00	0.00	0.00	0.00	1.71

### 5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%

### 5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Single Family Housing	1.71	0%

### 5.8. Construction Electricity Consumption and Emissions Factors

#### kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2023	0.00	532	0.03	< 0.005
2024	0.00	532	0.03	< 0.005

### 5.18. Vegetation

#### 5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	19.8	annual days of extreme heat
Extreme Precipitation	3.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	6.78	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	1	1	3
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A



Drought	N/A	N/A	N/A	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	77.1
AQ-PM	93.4
AQ-DPM	57.1
Drinking Water	100.0
Lead Risk Housing	17.5
Pesticides	84.9
Toxic Releases	67.6
Traffic	18.1
Effect Indicators	—
CleanUp Sites	80.3
Groundwater	98.1
Haz Waste Facilities/Generators	86.6

Impaired Water Bodies	87.0
Solid Waste	98.9
Sensitive Population	—
Asthma	16.5
Cardio-vascular	29.1
Low Birth Weights	49.0
Socioeconomic Factor Indicators	—
Education	52.9
Housing	59.3
Linguistic	68.9
Poverty	35.4
Unemployment	36.4

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	73.60451687
Employed	6.274862056
Education	—
Bachelor's or higher	64.85307327
High school enrollment	100
Preschool enrollment	66.93186193
Transportation	—
Auto Access	63.41588605
Active commuting	24.5989991
Social	—

2-parent households	66.95752598
Voting	70.69164635
Neighborhood	—
Alcohol availability	97.0101373
Park access	52.77813422
Retail density	10.02181445
Supermarket access	6.557166688
Tree canopy	8.238162453
Housing	—
Homeownership	60.78532016
Housing habitability	61.41408957
Low-inc homeowner severe housing cost burden	71.53856025
Low-inc renter severe housing cost burden	18.38829719
Uncrowded housing	64.30129603
Health Outcomes	—
Insured adults	73.78416528
Arthritis	95.7
Asthma ER Admissions	84.6
High Blood Pressure	97.7
Cancer (excluding skin)	89.7
Asthma	34.7
Coronary Heart Disease	98.7
Chronic Obstructive Pulmonary Disease	94.6
Diagnosed Diabetes	96.0
Life Expectancy at Birth	75.7
Cognitively Disabled	56.3
Physically Disabled	69.8

Heart Attack ER Admissions	68.4
Mental Health Not Good	54.9
Chronic Kidney Disease	97.1
Obesity	68.0
Pedestrian Injuries	19.6
Physical Health Not Good	86.2
Stroke	97.8
Health Risk Behaviors	—
Binge Drinking	28.2
Current Smoker	59.6
No Leisure Time for Physical Activity	76.7
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	9.0
Elderly	91.7
English Speaking	35.1
Foreign-born	48.1
Outdoor Workers	88.5
Climate Change Adaptive Capacity	—
Impervious Surface Cover	78.1
Traffic Density	21.6
Traffic Access	23.0
Other Indices	—
Hardship	45.2
Other Decision Support	—
2016 Voting	74.7

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	72.0
Healthy Places Index Score for Project Location (b)	55.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health and Equity Evaluation Scorecard not completed.

## 8. User Changes to Default Data

Screen	Justification
Land Use	Acreage based on site plan
Construction: Construction Phases	Construction schedule based on data provided by Project team
Construction: Off-Road Equipment	Equipment based on data provided by the Project team
Construction: Dust From Material Movement	Assumes 5 acres will be graded per day
Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Demolition, Site Preparation, Grading, and Building Construction.
Construction: Architectural Coatings	—

# 14252 Subarea 29 PA 32 Construction Mitigated Detailed Report

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# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	14252 Subarea 29 PA 32 Construction Mitigated
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.60
Precipitation (days)	18.8
Location	33.987003822375186, -117.57264356187574
County	San Bernardino-South Coast
City	Ontario
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5260
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Single Family Housing	671	Dwelling Unit	43.6	1,308,450	7,859,327	—	2,221	—

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.57	6.47	35.5	46.5	0.07	1.12	4.31	4.73	1.01	1.09	2.10	—	9,205	9,205	0.45	0.45	22.0	9,374
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.48	6.37	23.4	44.4	0.05	0.48	4.31	4.73	0.43	1.82	2.25	—	9,316	9,316	0.49	0.45	0.57	9,461
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.76	4.39	14.3	28.6	0.03	0.31	3.03	3.33	0.28	0.72	1.00	—	6,352	6,352	0.33	0.32	6.76	6,464
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.32	0.80	2.61	5.22	0.01	0.06	0.55	0.61	0.05	0.13	0.18	—	1,052	1,052	0.05	0.05	1.12	1,070

### 2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2023	1.50	1.46	35.5	46.5	0.07	1.12	3.14	4.26	1.01	1.09	2.10	—	8,496	8,496	0.36	0.12	2.68	8,543
2024	2.57	6.47	19.7	45.2	0.05	0.42	4.31	4.73	0.39	1.03	1.42	—	9,205	9,205	0.45	0.45	22.0	9,374
2025	2.36	6.28	19.5	43.2	0.05	0.42	4.31	4.73	0.39	1.03	1.42	—	9,086	9,086	0.44	0.45	20.4	9,253
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	2.48	2.14	23.4	44.4	0.05	0.48	3.84	4.32	0.43	1.82	2.25	—	9,316	9,316	0.49	0.44	0.55	9,461
2024	2.48	6.37	20.0	39.2	0.05	0.42	4.31	4.73	0.39	1.03	1.42	—	8,858	8,858	0.46	0.45	0.57	9,005
2025	2.28	6.19	19.7	37.7	0.05	0.42	4.31	4.73	0.39	1.03	1.42	—	8,747	8,747	0.45	0.45	0.53	8,894
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.75	0.68	11.5	17.6	0.02	0.31	1.47	1.78	0.28	0.47	0.75	—	3,433	3,433	0.16	0.10	1.88	3,470
2024	1.76	4.39	14.3	28.6	0.03	0.30	3.03	3.33	0.28	0.72	1.00	—	6,352	6,352	0.33	0.32	6.76	6,464
2025	0.87	2.37	7.60	14.8	0.02	0.16	1.63	1.80	0.15	0.39	0.54	—	3,375	3,375	0.17	0.17	3.39	3,435
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.14	0.12	2.10	3.21	< 0.005	0.06	0.27	0.33	0.05	0.09	0.14	—	568	568	0.03	0.02	0.31	574
2024	0.32	0.80	2.61	5.22	0.01	0.06	0.55	0.61	0.05	0.13	0.18	—	1,052	1,052	0.05	0.05	1.12	1,070
2025	0.16	0.43	1.39	2.70	< 0.005	0.03	0.30	0.33	0.03	0.07	0.10	—	559	559	0.03	0.03	0.56	569

### 3. Construction Emissions Details

#### 3.1. Site Preparation (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.57	0.57	14.9	18.3	0.03	0.48	—	0.48	0.43	—	0.43	—	3,454	3,454	0.14	0.03	—	3,466
Dust From Material Movement:	—	—	—	—	—	—	3.68	3.68	—	1.78	1.78	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.85	1.06	< 0.005	0.03	—	0.03	0.02	—	0.02	—	199	199	0.01	< 0.005	—	199
Dust From Material Movement:	—	—	—	—	—	—	0.21	0.21	—	0.10	0.10	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.16	0.19	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	32.9	32.9	< 0.005	< 0.005	—	33.0
Dust From Material Movement:	—	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.06	0.70	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	135	135	0.01	< 0.005	0.02	136
Vendor	0.01	< 0.005	0.12	0.06	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	95.1	95.1	0.01	0.01	0.01	99.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	7.85	7.85	< 0.005	< 0.005	0.02	7.96
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.47	5.47	< 0.005	< 0.005	0.01	5.73
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	1.30	1.30	< 0.005	< 0.005	< 0.005	1.32
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.91	0.91	< 0.005	< 0.005	< 0.005	0.95
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.3. Grading (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.12	1.12	30.1	36.2	0.06	1.07	—	1.07	0.96	—	0.96	—	6,715	6,715	0.27	0.05	—	6,738
Dust From Material Movement	—	—	—	—	—	—	2.67	2.67	—	0.98	0.98	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21	0.21	5.53	6.64	0.01	0.20	—	0.20	0.18	—	0.18	—	1,233	1,233	0.05	0.01	—	1,237
Dust From Material Movement	—	—	—	—	—	—	0.49	0.49	—	0.18	0.18	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	1.01	1.21	< 0.005	0.04	—	0.04	0.03	—	0.03	—	204	204	0.01	< 0.005	—	205
Dust From Material Movement	—	—	—	—	—	—	0.09	0.09	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.11	0.11	1.85	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	294	294	0.01	0.01	1.26	298
Vendor	0.03	0.01	0.34	0.18	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	285	285	0.02	0.04	0.79	299
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.02	0.02	0.02	0.27	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	50.1	50.1	< 0.005	< 0.005	0.10	50.8
Vendor	0.01	< 0.005	0.06	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	52.4	52.4	< 0.005	0.01	0.06	54.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	8.30	8.30	< 0.005	< 0.005	0.02	8.41
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.67	8.67	< 0.005	< 0.005	0.01	9.08
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.5. Building Construction (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	0.64	14.7	18.2	0.03	0.36	—	0.36	0.32	—	0.32	—	2,941	2,941	0.12	0.02	—	2,951
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.11	2.64	3.28	0.01	0.06	—	0.06	0.06	—	0.06	—	530	530	0.02	< 0.005	—	531
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.48	0.60	< 0.005	0.01	—	0.01	0.01	—	0.01	—	87.7	87.7	< 0.005	< 0.005	—	88.0



Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.37	1.24	1.49	16.8	0.00	0.00	0.20	0.20	0.00	0.00	0.00	—	3,251	3,251	0.16	0.12	0.40	3,291	
Vendor	0.21	0.05	2.38	1.26	0.01	0.03	0.11	0.14	0.03	0.04	0.07	—	1,934	1,934	0.16	0.29	0.14	2,024	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.25	0.22	0.27	3.20	0.00	0.00	0.04	0.04	0.00	0.00	0.00	—	594	594	0.03	0.02	1.19	602	
Vendor	0.04	0.01	0.43	0.22	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	348	348	0.03	0.05	0.42	365	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.04	0.04	0.05	0.58	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	98.3	98.3	< 0.005	< 0.005	0.20	99.7	
Vendor	0.01	< 0.005	0.08	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	57.6	57.6	< 0.005	0.01	0.07	60.4	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	

### 3.7. Building Construction (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.68	0.64	14.7	18.2	0.03	0.35	—	0.35	0.32	—	0.32	—	2,942	2,942	0.12	0.02	—	2,952
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	0.64	14.7	18.2	0.03	0.35	—	0.35	0.32	—	0.32	—	2,942	2,942	0.12	0.02	—	2,952
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.48	0.45	10.5	13.1	0.02	0.25	—	0.25	0.23	—	0.23	—	2,107	2,107	0.09	0.02	—	2,114
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.08	1.92	2.38	< 0.005	0.05	—	0.05	0.04	—	0.04	—	349	349	0.01	< 0.005	—	350
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.38	1.26	1.17	20.4	0.00	0.00	0.20	0.20	0.00	0.00	0.00	—	3,478	3,478	0.15	0.12	13.9	3,531
Vendor	0.20	0.05	2.19	1.18	0.01	0.03	0.11	0.14	0.03	0.04	0.07	—	1,912	1,912	0.15	0.29	5.34	2,006
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.32	1.19	1.38	15.4	0.00	0.00	0.20	0.20	0.00	0.00	0.00	—	3,188	3,188	0.15	0.12	0.36	3,227

Vendor	0.20	0.05	2.29	1.19	0.01	0.03	0.11	0.14	0.03	0.04	0.07	—	1,913	1,913	0.15	0.29	0.14	2,002
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.93	0.84	0.99	11.6	0.00	0.00	0.14	0.14	0.00	0.00	0.00	—	2,315	2,315	0.11	0.09	4.30	2,348
Vendor	0.14	0.04	1.65	0.85	0.01	0.02	0.08	0.10	0.02	0.03	0.05	—	1,370	1,370	0.11	0.20	1.64	1,435
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.15	0.18	2.12	0.00	0.00	0.03	0.03	0.00	0.00	0.00	—	383	383	0.02	0.01	0.71	389
Vendor	0.03	0.01	0.30	0.16	< 0.005	< 0.005	0.01	0.02	< 0.005	0.01	0.01	—	227	227	0.02	0.03	0.27	238
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.9. Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	0.63	14.7	18.2	0.03	0.35	—	0.35	0.32	—	0.32	—	2,942	2,942	0.12	0.02	—	2,952
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	0.63	14.7	18.2	0.03	0.35	—	0.35	0.32	—	0.32	—	2,942	2,942	0.12	0.02	—	2,952
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	0.24	5.63	6.99	0.01	0.14	—	0.14	0.12	—	0.12	—	1,128	1,128	0.05	0.01	—	1,132
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	1.03	1.28	< 0.005	0.02	—	0.02	0.02	—	0.02	—	187	187	0.01	< 0.005	—	187
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.23	1.11	1.06	18.8	0.00	0.00	0.20	0.20	0.00	0.00	0.00	—	3,404	3,404	0.14	0.12	12.6	3,456
Vendor	0.19	0.05	2.09	1.13	0.01	0.03	0.11	0.14	0.03	0.04	0.07	—	1,882	1,882	0.15	0.29	5.30	1,976
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.16	1.04	1.17	14.2	0.00	0.00	0.20	0.20	0.00	0.00	0.00	—	3,121	3,121	0.15	0.12	0.33	3,160
Vendor	0.18	0.05	2.18	1.13	0.01	0.03	0.11	0.14	0.03	0.04	0.07	—	1,883	1,883	0.15	0.29	0.14	1,972
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.44	0.39	0.49	5.74	0.00	0.00	0.08	0.08	0.00	0.00	0.00	—	1,214	1,214	0.06	0.05	2.09	1,231
Vendor	0.07	0.02	0.84	0.43	0.01	0.01	0.04	0.05	0.01	0.02	0.03	—	722	722	0.06	0.11	0.88	757
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.09	1.05	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	201	201	0.01	0.01	0.35	204

Vendor	0.01	< 0.005	0.15	0.08	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	120	120	0.01	0.02	0.15	125
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.11. Paving (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.16	4.82	7.39	0.01	0.05	—	0.05	0.05	—	0.05	—	1,055	1,055	0.04	0.01	—	1,058
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.16	4.82	7.39	0.01	0.05	—	0.05	0.05	—	0.05	—	1,055	1,055	0.04	0.01	—	1,058
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	1.68	2.57	< 0.005	0.02	—	0.02	0.02	—	0.02	—	367	367	0.01	< 0.005	—	368
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.01	0.01	0.31	0.47	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	60.8	60.8	< 0.005	< 0.005	—	61.0
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	0.93	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	147	147	0.01	< 0.005	0.63	149
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.06	0.70	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	135	135	0.01	< 0.005	0.02	136
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.26	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	47.5	47.5	< 0.005	< 0.005	0.09	48.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	7.86	7.86	< 0.005	< 0.005	0.02	7.97
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.13. Architectural Coating (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	1.43	1.28	< 0.005	0.04	—	0.04	0.04	—	0.04	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	4.23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	1.43	1.28	< 0.005	0.04	—	0.04	0.04	—	0.04	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	4.23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.97	0.87	< 0.005	0.03	—	0.03	0.03	—	0.03	—	121	121	< 0.005	< 0.005	—	121
Architectural Coatings	—	2.87	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.18	0.16	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	20.0	20.0	< 0.005	< 0.005	—	20.1

Architect Coatings	—	0.52	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.28	0.25	0.23	4.09	0.00	0.00	0.04	0.04	0.00	0.00	0.00	—	696	696	0.03	0.02	2.78	706
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.26	0.24	0.28	3.09	0.00	0.00	0.04	0.04	0.00	0.00	0.00	—	638	638	0.03	0.02	0.07	645
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.18	0.16	0.19	2.20	0.00	0.00	0.03	0.03	0.00	0.00	0.00	—	439	439	0.02	0.02	0.82	445
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.40	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	72.7	72.7	< 0.005	< 0.005	0.13	73.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.15. Architectural Coating (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
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Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	1.43	1.28	< 0.005	0.04	—	0.04	0.04	—	0.04	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	4.23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	1.43	1.28	< 0.005	0.04	—	0.04	0.04	—	0.04	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	4.23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.55	0.49	< 0.005	0.02	—	0.02	0.01	—	0.01	—	68.3	68.3	< 0.005	< 0.005	—	68.5
Architectural Coatings	—	1.62	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.10	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.3	11.3	< 0.005	< 0.005	—	11.3

Architectural Coatings	—	0.30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.25	0.22	0.21	3.76	0.00	0.00	0.04	0.04	0.00	0.00	0.00	—	681	681	0.03	0.02	2.52	691
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.23	0.21	0.23	2.84	0.00	0.00	0.04	0.04	0.00	0.00	0.00	—	624	624	0.03	0.02	0.07	632
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.10	1.15	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	243	243	0.01	0.01	0.42	246
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.02	0.21	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	40.2	40.2	< 0.005	< 0.005	0.07	40.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

## 4. Operations Emissions Details

### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	2/1/2023	3/1/2023	5.00	21.0	—
Grading	Grading	6/1/2023	9/1/2023	5.00	67.0	—
Building Construction	Building Construction	10/1/2023	7/15/2025	5.00	467	—
Paving	Paving	4/20/2023	10/15/2023	5.00	127	—
Architectural Coating	Architectural Coating	1/20/2024	7/15/2025	5.00	387	—

### 5.2. Off-Road Equipment

#### 5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Tier 3	2.00	8.00	367	0.40
Grading	Excavators	Diesel	Tier 4 Interim	2.00	8.00	36.0	0.38
Grading	Graders	Diesel	Tier 3	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 3	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Tier 3	2.00	8.00	423	0.48
Building Construction	Cranes	Diesel	Tier 3	1.00	8.00	367	0.29

Building Construction	Forklifts	Diesel	Tier 4 Interim	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Tier 4 Interim	2.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	3.00	8.00	84.0	0.37
Building Construction	Welders	Diesel	Tier 4 Interim	2.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Tier 4 Interim	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Interim	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Tier 4 Interim	1.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Tier 4 Interim	1.00	8.00	37.0	0.48
Site Preparation	Crawler Tractors	Diesel	Tier 4 Interim	2.00	8.00	87.0	0.43
Grading	Crawler Tractors	Diesel	Tier 4 Interim	2.00	8.00	87.0	0.43

## 5.3. Construction Vehicles

### 5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	10.0	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	3.00	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	9.00	10.2	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	242	18.5	LDA,LDT1,LDT2

Building Construction	Vendor	61.0	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	10.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	0.00	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	48.3	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	0.00	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

## 5.4. Vehicles

### 5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

## 5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	2,649,611	883,204	0.00	0.00	—

## 5.6. Dust Mitigation

### 5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
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Site Preparation	—	—	105	0.00	—
Grading	—	—	335	0.00	—
Paving	0.00	0.00	0.00	0.00	7.39

### 5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%

### 5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Single Family Housing	7.39	0%

### 5.8. Construction Electricity Consumption and Emissions Factors

#### kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2023	0.00	532	0.03	< 0.005
2024	0.00	532	0.03	< 0.005
2025	0.00	532	0.03	< 0.005

### 5.18. Vegetation

#### 5.18.1. Land Use Change

##### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	19.8	annual days of extreme heat
Extreme Precipitation	3.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	6.78	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	1	1	3
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack	N/A	N/A	N/A	N/A

Air Quality	1	1	1	2
-------------	---	---	---	---

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	77.1
AQ-PM	93.4
AQ-DPM	57.1
Drinking Water	100.0
Lead Risk Housing	17.5
Pesticides	84.9
Toxic Releases	67.6
Traffic	18.1
Effect Indicators	—
CleanUp Sites	80.3
Groundwater	98.1
Haz Waste Facilities/Generators	86.6
Impaired Water Bodies	87.0
Solid Waste	98.9

Sensitive Population	—
Asthma	16.5
Cardio-vascular	29.1
Low Birth Weights	49.0
Socioeconomic Factor Indicators	—
Education	52.9
Housing	59.3
Linguistic	68.9
Poverty	35.4
Unemployment	36.4

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	73.60451687
Employed	6.274862056
Education	—
Bachelor's or higher	64.85307327
High school enrollment	100
Preschool enrollment	66.93186193
Transportation	—
Auto Access	63.41588605
Active commuting	24.5989991
Social	—
2-parent households	66.95752598
Voting	70.69164635

Neighborhood	—
Alcohol availability	97.0101373
Park access	52.77813422
Retail density	10.02181445
Supermarket access	6.557166688
Tree canopy	8.238162453
Housing	—
Homeownership	60.78532016
Housing habitability	61.41408957
Low-inc homeowner severe housing cost burden	71.53856025
Low-inc renter severe housing cost burden	18.38829719
Uncrowded housing	64.30129603
Health Outcomes	—
Insured adults	73.78416528
Arthritis	95.7
Asthma ER Admissions	84.6
High Blood Pressure	97.7
Cancer (excluding skin)	89.7
Asthma	34.7
Coronary Heart Disease	98.7
Chronic Obstructive Pulmonary Disease	94.6
Diagnosed Diabetes	96.0
Life Expectancy at Birth	75.7
Cognitively Disabled	56.3
Physically Disabled	69.8
Heart Attack ER Admissions	68.4
Mental Health Not Good	54.9

Chronic Kidney Disease	97.1
Obesity	68.0
Pedestrian Injuries	19.6
Physical Health Not Good	86.2
Stroke	97.8
Health Risk Behaviors	—
Binge Drinking	28.2
Current Smoker	59.6
No Leisure Time for Physical Activity	76.7
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	9.0
Elderly	91.7
English Speaking	35.1
Foreign-born	48.1
Outdoor Workers	88.5
Climate Change Adaptive Capacity	—
Impervious Surface Cover	78.1
Traffic Density	21.6
Traffic Access	23.0
Other Indices	—
Hardship	45.2
Other Decision Support	—
2016 Voting	74.7

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	72.0
Healthy Places Index Score for Project Location (b)	55.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

## 7.4. Health & Equity Measures

No Health & Equity Measures selected.

## 7.5. Evaluation Scorecard

Health and Equity Evaluation Scorecard not completed.

## 8. User Changes to Default Data

Screen	Justification
Land Use	Based on Project site plan
Construction: Construction Phases	Schedule based on data provided by Project team.
Construction: Off-Road Equipment	Equipment based on data from Project team
Construction: Dust From Material Movement	Assumes 5 acres will be graded per day
Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Demolition, Site Preparation, Grading, and Building Construction.
Construction: Architectural Coatings	Project will utilize super-compliant architectural coatings

# 14252 Subarea 29 PA 32 Construction Unmitigated Detailed Report

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# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	14252 Subarea 29 PA 32 Construction Unmitigated
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.60
Precipitation (days)	18.8
Location	33.987003822375186, -117.57264356187574
County	San Bernardino-South Coast
City	Ontario
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5260
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Single Family Housing	671	Dwelling Unit	43.6	1,308,450	7,859,327	—	2,221	—

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.90	24.5	46.9	43.6	0.07	2.24	4.31	5.38	2.06	1.09	3.15	—	9,205	9,205	0.45	0.45	22.0	9,374
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.33	24.4	29.5	42.2	0.05	1.53	4.31	5.37	1.41	1.82	3.22	—	9,316	9,316	0.49	0.45	0.57	9,461
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.77	16.7	14.6	27.5	0.03	0.67	3.03	3.52	0.62	0.72	1.18	—	6,352	6,352	0.33	0.32	6.76	6,464
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.51	3.04	2.67	5.01	0.01	0.12	0.55	0.64	0.11	0.13	0.22	—	1,052	1,052	0.05	0.05	1.12	1,070

### 2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2023	5.90	4.95	46.9	42.6	0.07	2.24	3.14	5.38	2.06	1.09	3.15	—	8,496	8,496	0.36	0.12	2.68	8,543
2024	3.99	24.5	19.2	43.6	0.05	0.69	4.31	5.00	0.64	1.03	1.67	—	9,205	9,205	0.45	0.45	22.0	9,374
2025	3.66	24.2	18.0	41.5	0.05	0.60	4.31	4.91	0.56	1.03	1.59	—	9,086	9,086	0.44	0.45	20.4	9,253
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	4.33	3.59	29.5	42.2	0.05	1.53	3.84	5.37	1.41	1.82	3.22	—	9,316	9,316	0.49	0.44	0.55	9,461
2024	3.90	24.4	19.5	37.7	0.05	0.69	4.31	5.00	0.64	1.03	1.67	—	8,858	8,858	0.46	0.45	0.57	9,005
2025	3.57	24.1	18.2	36.0	0.05	0.60	4.31	4.91	0.56	1.03	1.59	—	8,747	8,747	0.45	0.45	0.53	8,894
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	2.06	1.72	14.6	16.8	0.02	0.67	1.47	2.14	0.62	0.47	1.09	—	3,433	3,433	0.16	0.10	1.88	3,470
2024	2.77	16.7	13.9	27.5	0.03	0.49	3.03	3.52	0.45	0.72	1.18	—	6,352	6,352	0.33	0.32	6.76	6,464
2025	1.37	9.25	7.04	14.2	0.02	0.23	1.63	1.87	0.21	0.39	0.60	—	3,375	3,375	0.17	0.17	3.39	3,435
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.38	0.31	2.67	3.06	< 0.005	0.12	0.27	0.39	0.11	0.09	0.20	—	568	568	0.03	0.02	0.31	574
2024	0.51	3.04	2.54	5.01	0.01	0.09	0.55	0.64	0.08	0.13	0.22	—	1,052	1,052	0.05	0.05	1.12	1,070
2025	0.25	1.69	1.28	2.58	< 0.005	0.04	0.30	0.34	0.04	0.07	0.11	—	559	559	0.03	0.03	0.56	569

### 3. Construction Emissions Details

#### 3.1. Site Preparation (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.60	3.03	29.3	23.6	0.03	1.53	—	1.53	1.40	—	1.40	—	3,454	3,454	0.14	0.03	—	3,466
Dust From Material Movement:	—	—	—	—	—	—	3.68	3.68	—	1.78	1.78	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21	0.17	1.68	1.36	< 0.005	0.09	—	0.09	0.08	—	0.08	—	199	199	0.01	< 0.005	—	199
Dust From Material Movement:	—	—	—	—	—	—	0.21	0.21	—	0.10	0.10	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.31	0.25	< 0.005	0.02	—	0.02	0.01	—	0.01	—	32.9	32.9	< 0.005	< 0.005	—	33.0
Dust From Material Movement:	—	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.06	0.70	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	135	135	0.01	< 0.005	0.02	136
Vendor	0.01	< 0.005	0.12	0.06	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	95.1	95.1	0.01	0.01	0.01	99.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	7.85	7.85	< 0.005	< 0.005	0.02	7.96
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.47	5.47	< 0.005	< 0.005	0.01	5.73
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	1.30	1.30	< 0.005	< 0.005	< 0.005	1.32
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.91	0.91	< 0.005	< 0.005	< 0.005	0.95
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.3. Grading (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	5.00	4.20	40.9	32.7	0.06	1.96	—	1.96	1.80	—	1.80	—	6,715	6,715	0.27	0.05	—	6,738
Dust From Material Movement	—	—	—	—	—	—	2.67	2.67	—	0.98	0.98	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00



Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.92	0.77	7.51	6.00	0.01	0.36	—	0.36	0.33	—	0.33	—	1,233	1,233	0.05	0.01	—	1,237
Dust From Material Movement	—	—	—	—	—	—	0.49	0.49	—	0.18	0.18	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.14	1.37	1.09	< 0.005	0.07	—	0.07	0.06	—	0.06	—	204	204	0.01	< 0.005	—	205
Dust From Material Movement	—	—	—	—	—	—	0.09	0.09	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.11	0.11	1.85	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	294	294	0.01	0.01	1.26	298
Vendor	0.03	0.01	0.34	0.18	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	285	285	0.02	0.04	0.79	299
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.02	0.02	0.02	0.27	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	50.1	50.1	< 0.005	< 0.005	0.10	50.8
Vendor	0.01	< 0.005	0.06	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	52.4	52.4	< 0.005	0.01	0.06	54.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	8.30	8.30	< 0.005	< 0.005	0.02	8.41
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.67	8.67	< 0.005	< 0.005	0.01	9.08
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.5. Building Construction (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.00	1.67	15.0	16.5	0.03	0.69	—	0.69	0.63	—	0.63	—	2,941	2,941	0.12	0.02	—	2,951
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.36	0.30	2.71	2.97	0.01	0.12	—	0.12	0.11	—	0.11	—	530	530	0.02	< 0.005	—	531
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.05	0.49	0.54	< 0.005	0.02	—	0.02	0.02	—	0.02	—	87.7	87.7	< 0.005	< 0.005	—	88.0

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.37	1.24	1.49	16.8	0.00	0.00	0.20	0.20	0.00	0.00	0.00	—	3,251	3,251	0.16	0.12	0.40	3,291	
Vendor	0.21	0.05	2.38	1.26	0.01	0.03	0.11	0.14	0.03	0.04	0.07	—	1,934	1,934	0.16	0.29	0.14	2,024	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.25	0.22	0.27	3.20	0.00	0.00	0.04	0.04	0.00	0.00	0.00	—	594	594	0.03	0.02	1.19	602	
Vendor	0.04	0.01	0.43	0.22	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	348	348	0.03	0.05	0.42	365	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.04	0.04	0.05	0.58	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	98.3	98.3	< 0.005	< 0.005	0.20	99.7	
Vendor	0.01	< 0.005	0.08	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	57.6	57.6	< 0.005	0.01	0.07	60.4	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	

### 3.7. Building Construction (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.90	1.59	14.4	16.4	0.03	0.62	—	0.62	0.57	—	0.57	—	2,942	2,942	0.12	0.02	—	2,952
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.90	1.59	14.4	16.4	0.03	0.62	—	0.62	0.57	—	0.57	—	2,942	2,942	0.12	0.02	—	2,952
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.36	1.14	10.3	11.8	0.02	0.44	—	0.44	0.41	—	0.41	—	2,107	2,107	0.09	0.02	—	2,114
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	0.21	1.88	2.15	< 0.005	0.08	—	0.08	0.07	—	0.07	—	349	349	0.01	< 0.005	—	350
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.38	1.26	1.17	20.4	0.00	0.00	0.20	0.20	0.00	0.00	0.00	—	3,478	3,478	0.15	0.12	13.9	3,531
Vendor	0.20	0.05	2.19	1.18	0.01	0.03	0.11	0.14	0.03	0.04	0.07	—	1,912	1,912	0.15	0.29	5.34	2,006
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.32	1.19	1.38	15.4	0.00	0.00	0.20	0.20	0.00	0.00	0.00	—	3,188	3,188	0.15	0.12	0.36	3,227

Vendor	0.20	0.05	2.29	1.19	0.01	0.03	0.11	0.14	0.03	0.04	0.07	—	1,913	1,913	0.15	0.29	0.14	2,002
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.93	0.84	0.99	11.6	0.00	0.00	0.14	0.14	0.00	0.00	0.00	—	2,315	2,315	0.11	0.09	4.30	2,348
Vendor	0.14	0.04	1.65	0.85	0.01	0.02	0.08	0.10	0.02	0.03	0.05	—	1,370	1,370	0.11	0.20	1.64	1,435
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.15	0.18	2.12	0.00	0.00	0.03	0.03	0.00	0.00	0.00	—	383	383	0.02	0.01	0.71	389
Vendor	0.03	0.01	0.30	0.16	< 0.005	< 0.005	0.01	0.02	< 0.005	0.01	0.01	—	227	227	0.02	0.03	0.27	238
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.9. Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.79	1.50	13.5	16.3	0.03	0.54	—	0.54	0.50	—	0.50	—	2,942	2,942	0.12	0.02	—	2,952
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.79	1.50	13.5	16.3	0.03	0.54	—	0.54	0.50	—	0.50	—	2,942	2,942	0.12	0.02	—	2,952
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.69	0.57	5.16	6.26	0.01	0.21	—	0.21	0.19	—	0.19	—	1,128	1,128	0.05	0.01	—	1,132
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.10	0.94	1.14	< 0.005	0.04	—	0.04	0.03	—	0.03	—	187	187	0.01	< 0.005	—	187
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.23	1.11	1.06	18.8	0.00	0.00	0.20	0.20	0.00	0.00	0.00	—	3,404	3,404	0.14	0.12	12.6	3,456
Vendor	0.19	0.05	2.09	1.13	0.01	0.03	0.11	0.14	0.03	0.04	0.07	—	1,882	1,882	0.15	0.29	5.30	1,976
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.16	1.04	1.17	14.2	0.00	0.00	0.20	0.20	0.00	0.00	0.00	—	3,121	3,121	0.15	0.12	0.33	3,160
Vendor	0.18	0.05	2.18	1.13	0.01	0.03	0.11	0.14	0.03	0.04	0.07	—	1,883	1,883	0.15	0.29	0.14	1,972
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.44	0.39	0.49	5.74	0.00	0.00	0.08	0.08	0.00	0.00	0.00	—	1,214	1,214	0.06	0.05	2.09	1,231
Vendor	0.07	0.02	0.84	0.43	0.01	0.01	0.04	0.05	0.01	0.02	0.03	—	722	722	0.06	0.11	0.88	757
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.09	1.05	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	201	201	0.01	0.01	0.35	204

Vendor	0.01	< 0.005	0.15	0.08	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	120	120	0.01	0.02	0.15	125
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.11. Paving (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.69	0.58	5.49	6.96	0.01	0.28	—	0.28	0.26	—	0.26	—	1,055	1,055	0.04	0.01	—	1,058
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.69	0.58	5.49	6.96	0.01	0.28	—	0.28	0.26	—	0.26	—	1,055	1,055	0.04	0.01	—	1,058
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	0.20	1.91	2.42	< 0.005	0.10	—	0.10	0.09	—	0.09	—	367	367	0.01	< 0.005	—	368
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.04	0.04	0.35	0.44	< 0.005	0.02	—	0.02	0.02	—	0.02	—	60.8	60.8	< 0.005	< 0.005	—	61.0
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	0.93	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	147	147	0.01	< 0.005	0.63	149
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.06	0.70	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	135	135	0.01	< 0.005	0.02	136
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.26	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	47.5	47.5	< 0.005	< 0.005	0.09	48.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	7.86	7.86	< 0.005	< 0.005	0.02	7.97
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.13. Architectural Coating (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)



Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22	0.18	1.21	1.53	< 0.005	0.04	—	0.04	0.04	—	0.04	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	21.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22	0.18	1.21	1.53	< 0.005	0.04	—	0.04	0.04	—	0.04	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	21.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	0.82	1.04	< 0.005	0.03	—	0.03	0.03	—	0.03	—	121	121	< 0.005	< 0.005	—	121
Architectural Coatings	—	14.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.15	0.19	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	20.0	20.0	< 0.005	< 0.005	—	20.1

Architect Coatings	—	2.62	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.28	0.25	0.23	4.09	0.00	0.00	0.04	0.04	0.00	0.00	0.00	—	696	696	0.03	0.02	2.78	706
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.26	0.24	0.28	3.09	0.00	0.00	0.04	0.04	0.00	0.00	0.00	—	638	638	0.03	0.02	0.07	645
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.18	0.16	0.19	2.20	0.00	0.00	0.03	0.03	0.00	0.00	0.00	—	439	439	0.02	0.02	0.82	445
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.40	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	72.7	72.7	< 0.005	< 0.005	0.13	73.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.15. Architectural Coating (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
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Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21	0.17	1.18	1.52	< 0.005	0.04	—	0.04	0.03	—	0.03	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	21.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21	0.17	1.18	1.52	< 0.005	0.04	—	0.04	0.03	—	0.03	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	21.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.45	0.58	< 0.005	0.01	—	0.01	0.01	—	0.01	—	68.3	68.3	< 0.005	< 0.005	—	68.5
Architectural Coatings	—	8.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.3	11.3	< 0.005	< 0.005	—	11.3

Architectural Coatings	—	1.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.25	0.22	0.21	3.76	0.00	0.00	0.04	0.04	0.00	0.00	0.00	—	681	681	0.03	0.02	2.52	691
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.23	0.21	0.23	2.84	0.00	0.00	0.04	0.04	0.00	0.00	0.00	—	624	624	0.03	0.02	0.07	632
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.10	1.15	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	243	243	0.01	0.01	0.42	246
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.02	0.21	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	40.2	40.2	< 0.005	< 0.005	0.07	40.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 4. Operations Emissions Details

### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	2/1/2023	3/1/2023	5.00	21.0	—
Grading	Grading	6/1/2023	9/1/2023	5.00	67.0	—
Building Construction	Building Construction	10/1/2023	7/15/2025	5.00	467	—
Paving	Paving	4/20/2023	10/15/2023	5.00	127	—
Architectural Coating	Architectural Coating	1/20/2024	7/15/2025	5.00	387	—

### 5.2. Off-Road Equipment

#### 5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Building Construction	Cranes	Diesel	Average	1.00	8.00	367	0.29

Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Building Construction	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48
Site Preparation	Crawler Tractors	Diesel	Average	2.00	8.00	87.0	0.43
Grading	Crawler Tractors	Diesel	Average	2.00	8.00	87.0	0.43

## 5.3. Construction Vehicles

### 5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	10.0	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	3.00	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	9.00	10.2	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	242	18.5	LDA,LDT1,LDT2



Building Construction	Vendor	61.0	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	10.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	0.00	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	48.3	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	0.00	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

## 5.4. Vehicles

### 5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

## 5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	2,649,611	883,204	0.00	0.00	—

## 5.6. Dust Mitigation

### 5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
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Site Preparation	—	—	105	0.00	—
Grading	—	—	335	0.00	—
Paving	0.00	0.00	0.00	0.00	7.39

### 5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%

### 5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Single Family Housing	7.39	0%

### 5.8. Construction Electricity Consumption and Emissions Factors

#### kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2023	0.00	532	0.03	< 0.005
2024	0.00	532	0.03	< 0.005
2025	0.00	532	0.03	< 0.005

### 5.18. Vegetation

#### 5.18.1. Land Use Change

##### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	19.8	annual days of extreme heat
Extreme Precipitation	3.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	6.78	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	1	1	3
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack	N/A	N/A	N/A	N/A

Air Quality	1	1	1	2
-------------	---	---	---	---

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	77.1
AQ-PM	93.4
AQ-DPM	57.1
Drinking Water	100.0
Lead Risk Housing	17.5
Pesticides	84.9
Toxic Releases	67.6
Traffic	18.1
Effect Indicators	—
CleanUp Sites	80.3
Groundwater	98.1
Haz Waste Facilities/Generators	86.6
Impaired Water Bodies	87.0
Solid Waste	98.9

Sensitive Population	—
Asthma	16.5
Cardio-vascular	29.1
Low Birth Weights	49.0
Socioeconomic Factor Indicators	—
Education	52.9
Housing	59.3
Linguistic	68.9
Poverty	35.4
Unemployment	36.4

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	73.60451687
Employed	6.274862056
Education	—
Bachelor's or higher	64.85307327
High school enrollment	100
Preschool enrollment	66.93186193
Transportation	—
Auto Access	63.41588605
Active commuting	24.5989991
Social	—
2-parent households	66.95752598
Voting	70.69164635

Neighborhood	—
Alcohol availability	97.0101373
Park access	52.77813422
Retail density	10.02181445
Supermarket access	6.557166688
Tree canopy	8.238162453
Housing	—
Homeownership	60.78532016
Housing habitability	61.41408957
Low-inc homeowner severe housing cost burden	71.53856025
Low-inc renter severe housing cost burden	18.38829719
Uncrowded housing	64.30129603
Health Outcomes	—
Insured adults	73.78416528
Arthritis	95.7
Asthma ER Admissions	84.6
High Blood Pressure	97.7
Cancer (excluding skin)	89.7
Asthma	34.7
Coronary Heart Disease	98.7
Chronic Obstructive Pulmonary Disease	94.6
Diagnosed Diabetes	96.0
Life Expectancy at Birth	75.7
Cognitively Disabled	56.3
Physically Disabled	69.8
Heart Attack ER Admissions	68.4
Mental Health Not Good	54.9

Chronic Kidney Disease	97.1
Obesity	68.0
Pedestrian Injuries	19.6
Physical Health Not Good	86.2
Stroke	97.8
Health Risk Behaviors	—
Binge Drinking	28.2
Current Smoker	59.6
No Leisure Time for Physical Activity	76.7
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	9.0
Elderly	91.7
English Speaking	35.1
Foreign-born	48.1
Outdoor Workers	88.5
Climate Change Adaptive Capacity	—
Impervious Surface Cover	78.1
Traffic Density	21.6
Traffic Access	23.0
Other Indices	—
Hardship	45.2
Other Decision Support	—
2016 Voting	74.7

### 7.3. Overall Health & Equity Scores



Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	72.0
Healthy Places Index Score for Project Location (b)	55.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

## 7.4. Health & Equity Measures

No Health & Equity Measures selected.

## 7.5. Evaluation Scorecard

Health and Equity Evaluation Scorecard not completed.

## 8. User Changes to Default Data

Screen	Justification
Land Use	Based on Project site plan
Construction: Construction Phases	Schedule based on data provided by Project team.
Construction: Off-Road Equipment	Equipment based on data from Project team
Construction: Dust From Material Movement	Assumes 5 acres will be graded per day
Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Demolition, Site Preparation, Grading, and Building Construction.

# 14252 Subarea 29 PA 33 Construction Mitigated Detailed Report

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8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	14252 Subarea 29 PA 33 Construction Mitigated
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.60
Precipitation (days)	18.8
Location	33.9872615615549, -117.57227298909044
County	San Bernardino-South Coast
City	Ontario
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5260
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Single Family Housing	644	Dwelling Unit	49.6	1,255,800	7,543,080	—	2,132	—

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.21	16.8	30.5	41.7	0.06	1.07	3.90	4.31	0.96	1.82	2.24	—	7,996	7,996	0.36	0.31	17.2	8,114
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.13	16.7	30.6	37.6	0.06	1.07	3.90	4.31	0.96	1.06	2.02	—	7,671	7,671	0.37	0.31	0.45	7,772
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.35	5.49	12.1	23.8	0.03	0.26	2.40	2.66	0.24	0.57	0.81	—	4,960	4,960	0.24	0.20	4.67	5,030
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.25	1.00	2.21	4.35	< 0.005	0.05	0.44	0.49	0.04	0.10	0.15	—	821	821	0.04	0.03	0.77	833

### 2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2024	1.26	1.23	30.5	38.0	0.06	1.07	3.83	4.31	0.96	1.82	2.24	—	7,254	7,254	0.30	0.10	1.85	7,293
2025	2.21	16.8	18.4	41.7	0.04	0.41	3.90	4.31	0.37	0.93	1.30	—	7,996	7,996	0.36	0.31	17.2	8,114
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	1.26	1.23	30.6	37.6	0.06	1.07	3.00	4.07	0.96	1.06	2.02	—	7,230	7,230	0.30	0.10	0.05	7,268
2025	2.13	16.7	18.6	36.4	0.04	0.41	3.90	4.31	0.37	0.93	1.30	—	7,671	7,671	0.37	0.31	0.45	7,772
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.29	0.28	7.00	8.91	0.01	0.23	0.77	1.00	0.21	0.30	0.50	—	1,668	1,668	0.07	0.02	0.19	1,676
2025	1.35	5.49	12.1	23.8	0.03	0.26	2.40	2.66	0.24	0.57	0.81	—	4,960	4,960	0.24	0.20	4.67	5,030
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.05	0.05	1.28	1.63	< 0.005	0.04	0.14	0.18	0.04	0.05	0.09	—	276	276	0.01	< 0.005	0.03	278
2025	0.25	1.00	2.21	4.35	< 0.005	0.05	0.44	0.49	0.04	0.10	0.15	—	821	821	0.04	0.03	0.77	833

### 3. Construction Emissions Details

#### 3.1. Site Preparation (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.57	0.57	14.9	18.3	0.03	0.48	—	0.48	0.43	—	0.43	—	3,454	3,454	0.14	0.03	—	3,465
Dust From Material Movement	—	—	—	—	—	—	3.68	3.68	—	1.78	1.78	—	—	—	—	—	—	—



Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.81	1.01	< 0.005	0.03	—	0.03	0.02	—	0.02	—	189	189	0.01	< 0.005	—	190	
Dust From Material Movement	—	—	—	—	—	—	0.20	0.20	—	0.10	0.10	—	—	—	—	—	—	—	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Off-Road Equipment	0.01	0.01	0.15	0.18	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	31.3	31.3	< 0.005	< 0.005	—	31.4	
Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—	—	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.06	0.05	0.05	0.85	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	144	144	0.01	< 0.005	0.58	146	
Vendor	0.01	< 0.005	0.07	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	62.7	62.7	< 0.005	0.01	0.17	65.8	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	7.33	7.33	< 0.005	< 0.005	0.01	7.44
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.44	3.44	< 0.005	< 0.005	< 0.005	3.60
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	1.21	1.21	< 0.005	< 0.005	< 0.005	1.23
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.57	0.57	< 0.005	< 0.005	< 0.005	0.60
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.3. Grading (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.12	1.12	30.1	36.2	0.06	1.07	—	1.07	0.96	—	0.96	—	6,715	6,715	0.27	0.05	—	6,738
Dust From Material Movement	—	—	—	—	—	—	2.67	2.67	—	0.98	0.98	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.12	1.12	30.1	36.2	0.06	1.07	—	1.07	0.96	—	0.96	—	6,715	6,715	0.27	0.05	—	6,738

Dust From Material Movement:	—	—	—	—	—	—	2.67	2.67	—	0.98	0.98	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21	0.21	5.53	6.64	0.01	0.20	—	0.20	0.18	—	0.18	—	1,233	1,233	0.05	0.01	—	1,237
Dust From Material Movement:	—	—	—	—	—	—	0.49	0.49	—	0.18	0.18	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	1.01	1.21	< 0.005	0.04	—	0.04	0.03	—	0.03	—	204	204	0.01	< 0.005	—	205
Dust From Material Movement:	—	—	—	—	—	—	0.09	0.09	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.10	1.69	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	288	288	0.01	0.01	1.15	292
Vendor	0.03	0.01	0.29	0.15	< 0.005	< 0.005	0.01	0.02	< 0.005	0.01	0.01	—	251	251	0.02	0.04	0.70	263
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.11	0.10	0.11	1.28	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	264	264	0.01	0.01	0.03	267
Vendor	0.03	0.01	0.30	0.16	< 0.005	< 0.005	0.01	0.02	< 0.005	0.01	0.01	—	251	251	0.02	0.04	0.02	263
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.25	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	49.1	49.1	< 0.005	< 0.005	0.09	49.8
Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	46.0	46.0	< 0.005	0.01	0.06	48.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	8.13	8.13	< 0.005	< 0.005	0.02	8.25
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.62	7.62	< 0.005	< 0.005	0.01	7.99
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.5. Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	0.63	14.7	18.2	0.03	0.35	—	0.35	0.32	—	0.32	—	2,942	2,942	0.12	0.02	—	2,952
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	0.63	14.7	18.2	0.03	0.35	—	0.35	0.32	—	0.32	—	2,942	2,942	0.12	0.02	—	2,952

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.43	10.0	12.4	0.02	0.24	—	0.24	0.22	—	0.22	—	2,007	2,007	0.08	0.02	—	2,014	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.08	1.83	2.27	< 0.005	0.04	—	0.04	0.04	—	0.04	—	332	332	0.01	< 0.005	—	333	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.18	1.06	1.02	18.1	0.00	0.00	0.19	0.19	0.00	0.00	0.00	—	3,267	3,267	0.14	0.12	12.1	3,317	
Vendor	0.09	0.03	1.06	0.57	0.01	0.01	0.06	0.07	0.01	0.02	0.03	—	956	956	0.07	0.14	2.69	1,004	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.11	1.00	1.12	13.6	0.00	0.00	0.19	0.19	0.00	0.00	0.00	—	2,995	2,995	0.14	0.12	0.31	3,033	
Vendor	0.09	0.03	1.11	0.58	0.01	0.01	0.06	0.07	0.01	0.02	0.03	—	957	957	0.07	0.14	0.07	1,002	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.75	0.67	0.83	9.80	0.00	0.00	0.13	0.13	0.00	0.00	0.00	—	2,072	2,072	0.10	0.08	3.57	2,101	
Vendor	0.06	0.02	0.76	0.39	< 0.005	0.01	0.04	0.05	0.01	0.01	0.02	—	653	653	0.05	0.10	0.80	684	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.14	0.12	0.15	1.79	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	343	343	0.02	0.01	0.59	348
Vendor	0.01	< 0.005	0.14	0.07	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	108	108	0.01	0.02	0.13	113
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.7. Paving (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.16	4.82	7.39	0.01	0.05	—	0.05	0.05	—	0.05	—	1,054	1,054	0.04	0.01	—	1,058
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.57	0.87	< 0.005	0.01	—	0.01	0.01	—	0.01	—	124	124	0.01	< 0.005	—	125
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.10	0.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20.6	20.6	< 0.005	< 0.005	—	20.6
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.06	0.64	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	132	132	0.01	< 0.005	0.01	134	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.01	0.01	0.01	0.08	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	15.8	15.8	< 0.005	< 0.005	0.03	16.0	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	2.61	2.61	< 0.005	< 0.005	< 0.005	2.65	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	

### 3.9. Architectural Coating (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.03	0.03	1.43	1.28	< 0.005	0.04	—	0.04	0.04	—	0.04	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	14.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	1.43	1.28	< 0.005	0.04	—	0.04	0.04	—	0.04	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	14.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.41	0.37	< 0.005	0.01	—	0.01	0.01	—	0.01	—	51.7	51.7	< 0.005	< 0.005	—	51.9
Architectural Coatings	—	4.31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.08	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.56	8.56	< 0.005	< 0.005	—	8.59
Architectural Coatings	—	0.79	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.24	0.21	0.20	3.61	0.00	0.00	0.04	0.04	0.00	0.00	0.00	—	653	653	0.03	0.02	2.42	663
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.22	0.20	0.22	2.72	0.00	0.00	0.04	0.04	0.00	0.00	0.00	—	599	599	0.03	0.02	0.06	607
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.07	0.83	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	176	176	0.01	0.01	0.30	179
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.15	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	29.2	29.2	< 0.005	< 0.005	0.05	29.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

## 4. Operations Emissions Details

### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
------------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
---------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	6/1/2024	6/30/2024	5.00	20.0	—
Grading	Grading	7/1/2024	10/1/2024	5.00	67.0	—
Building Construction	Building Construction	1/1/2025	12/15/2025	5.00	249	—
Paving	Paving	11/1/2024	12/31/2024	5.00	43.0	—
Architectural Coating	Architectural Coating	7/20/2025	12/15/2025	5.00	106	—

### 5.2. Off-Road Equipment

#### 5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Tier 3	2.00	8.00	367	0.40
Grading	Excavators	Diesel	Tier 4 Interim	2.00	8.00	36.0	0.38
Grading	Graders	Diesel	Tier 3	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 3	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Tier 3	2.00	8.00	423	0.48
Building Construction	Cranes	Diesel	Tier 3	1.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 4 Interim	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Tier 4 Interim	2.00	8.00	14.0	0.74

Building Construction	Tractors/Loaders/Backh	Diesel	Tier 4 Interim	3.00	8.00	84.0	0.37
Building Construction	Welders	Diesel	Tier 4 Interim	2.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Tier 4 Interim	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Interim	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Tier 4 Interim	1.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Tier 4 Interim	1.00	8.00	37.0	0.48
Site Preparation	Crawler Tractors	Diesel	Tier 4 Interim	2.00	8.00	87.0	0.43
Grading	Crawler Tractors	Diesel	Tier 4 Interim	2.00	8.00	87.0	0.43

## 5.3. Construction Vehicles

### 5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	10.0	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	2.00	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	8.00	10.2	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	232	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	31.0	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT

Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	10.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	0.00	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	46.4	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	0.00	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

## 5.4. Vehicles

### 5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

## 5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	2,542,995	847,665	0.00	0.00	—

## 5.6. Dust Mitigation

### 5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	—	—	100	0.00	—
Grading	—	—	335	0.00	—

Paving	0.00	0.00	0.00	0.00	7.10
--------	------	------	------	------	------

### 5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%

### 5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Single Family Housing	7.10	0%

### 5.8. Construction Electricity Consumption and Emissions Factors

#### kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	0.00	532	0.03	< 0.005
2025	0.00	532	0.03	< 0.005

### 5.18. Vegetation

#### 5.18.1. Land Use Change

##### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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##### 5.18.1. Biomass Cover Type

##### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	19.8	annual days of extreme heat
Extreme Precipitation	3.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	6.78	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

### 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
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Temperature and Extreme Heat	2	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

### 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	1	1	3
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	77.1
AQ-PM	93.4
AQ-DPM	57.1
Drinking Water	100.0
Lead Risk Housing	17.5
Pesticides	84.9
Toxic Releases	67.6
Traffic	18.1
Effect Indicators	—
CleanUp Sites	80.3
Groundwater	98.1
Haz Waste Facilities/Generators	86.6
Impaired Water Bodies	87.0
Solid Waste	98.9
Sensitive Population	—
Asthma	16.5
Cardio-vascular	29.1
Low Birth Weights	49.0
Socioeconomic Factor Indicators	—

Education	52.9
Housing	59.3
Linguistic	68.9
Poverty	35.4
Unemployment	36.4

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	73.60451687
Employed	6.274862056
Education	—
Bachelor's or higher	64.85307327
High school enrollment	100
Preschool enrollment	66.93186193
Transportation	—
Auto Access	63.41588605
Active commuting	24.5989991
Social	—
2-parent households	66.95752598
Voting	70.69164635
Neighborhood	—
Alcohol availability	97.0101373
Park access	52.77813422
Retail density	10.02181445
Supermarket access	6.557166688

Tree canopy	8.238162453
Housing	—
Homeownership	60.78532016
Housing habitability	61.41408957
Low-inc homeowner severe housing cost burden	71.53856025
Low-inc renter severe housing cost burden	18.38829719
Uncrowded housing	64.30129603
Health Outcomes	—
Insured adults	73.78416528
Arthritis	95.7
Asthma ER Admissions	84.6
High Blood Pressure	97.7
Cancer (excluding skin)	89.7
Asthma	34.7
Coronary Heart Disease	98.7
Chronic Obstructive Pulmonary Disease	94.6
Diagnosed Diabetes	96.0
Life Expectancy at Birth	75.7
Cognitively Disabled	56.3
Physically Disabled	69.8
Heart Attack ER Admissions	68.4
Mental Health Not Good	54.9
Chronic Kidney Disease	97.1
Obesity	68.0
Pedestrian Injuries	19.6
Physical Health Not Good	86.2
Stroke	97.8

Health Risk Behaviors	—
Binge Drinking	28.2
Current Smoker	59.6
No Leisure Time for Physical Activity	76.7
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	9.0
Elderly	91.7
English Speaking	35.1
Foreign-born	48.1
Outdoor Workers	88.5
Climate Change Adaptive Capacity	—
Impervious Surface Cover	78.1
Traffic Density	21.6
Traffic Access	23.0
Other Indices	—
Hardship	45.2
Other Decision Support	—
2016 Voting	74.7

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	72.0
Healthy Places Index Score for Project Location (b)	55.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No

Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No
---	----

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

## 7.4. Health & Equity Measures

No Health & Equity Measures selected.

## 7.5. Evaluation Scorecard

Health and Equity Evaluation Scorecard not completed.

## 8. User Changes to Default Data

Screen	Justification
Land Use	Based on site plan
Construction: Construction Phases	Construction schedule based on information from Project team
Construction: Off-Road Equipment	Construction equipment based on info provided by the Project team
Construction: Dust From Material Movement	Assumes 5 acres will be graded per day
Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Demolition, Site Preparation, Grading, and Building Construction.
Construction: Architectural Coatings	Project will use super-compliant architectural coatings

# 14252 Subarea 29 PA 33 Construction Unmitigated Detailed Report

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8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	14252 Subarea 29 PA 33 Construction Unmitigated
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.60
Precipitation (days)	18.8
Location	33.9872615615549, -117.57227298909044
County	San Bernardino-South Coast
City	Ontario
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5260
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Single Family Housing	644	Dwelling Unit	49.6	1,255,800	7,543,080	—	2,132	—

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.83	77.1	38.0	40.1	0.06	1.78	3.90	5.19	1.64	1.82	3.07	—	7,996	7,996	0.36	0.31	17.2	8,114
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.83	77.0	38.0	34.8	0.06	1.78	3.90	4.78	1.64	1.06	2.70	—	7,671	7,671	0.37	0.31	0.45	7,772
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.16	23.3	11.2	22.6	0.03	0.43	2.40	2.78	0.40	0.57	0.93	—	4,960	4,960	0.24	0.20	4.67	5,030
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.39	4.26	2.04	4.12	< 0.005	0.08	0.44	0.51	0.07	0.10	0.17	—	821	821	0.04	0.03	0.77	833

### 2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2024	4.83	4.05	38.0	33.2	0.06	1.78	3.83	5.19	1.64	1.82	3.07	—	7,254	7,254	0.30	0.10	1.85	7,293
2025	3.51	77.1	16.9	40.1	0.04	0.59	3.90	4.49	0.54	0.93	1.47	—	7,996	7,996	0.36	0.31	17.2	8,114
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	4.83	4.05	38.0	32.8	0.06	1.78	3.00	4.78	1.64	1.06	2.70	—	7,230	7,230	0.30	0.10	0.05	7,268
2025	3.42	77.0	17.1	34.8	0.04	0.59	3.90	4.49	0.54	0.93	1.47	—	7,671	7,671	0.37	0.31	0.45	7,772
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	1.15	0.97	9.06	8.17	0.01	0.43	0.77	1.21	0.40	0.30	0.69	—	1,668	1,668	0.07	0.02	0.19	1,676
2025	2.16	23.3	11.2	22.6	0.03	0.39	2.40	2.78	0.36	0.57	0.93	—	4,960	4,960	0.24	0.20	4.67	5,030
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.21	0.18	1.65	1.49	< 0.005	0.08	0.14	0.22	0.07	0.05	0.13	—	276	276	0.01	< 0.005	0.03	278
2025	0.39	4.26	2.04	4.12	< 0.005	0.07	0.44	0.51	0.07	0.10	0.17	—	821	821	0.04	0.03	0.77	833

### 3. Construction Emissions Details

#### 3.1. Site Preparation (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.30	2.78	26.4	21.9	0.03	1.36	—	1.36	1.25	—	1.25	—	3,454	3,454	0.14	0.03	—	3,465
Dust From Material Movement	—	—	—	—	—	—	3.68	3.68	—	1.78	1.78	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.15	1.45	1.20	< 0.005	0.07	—	0.07	0.07	—	0.07	—	189	189	0.01	< 0.005	—	190	
Dust From Material Movement	—	—	—	—	—	—	0.20	0.20	—	0.10	0.10	—	—	—	—	—	—	—	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Off-Road Equipment	0.03	0.03	0.26	0.22	< 0.005	0.01	—	0.01	0.01	—	0.01	—	31.3	31.3	< 0.005	< 0.005	—	31.4	
Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—	—	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.06	0.05	0.05	0.85	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	144	144	0.01	< 0.005	0.58	146	
Vendor	0.01	< 0.005	0.07	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	62.7	62.7	< 0.005	0.01	0.17	65.8	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	7.33	7.33	< 0.005	< 0.005	0.01	7.44
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.44	3.44	< 0.005	< 0.005	< 0.005	3.60
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	1.21	1.21	< 0.005	< 0.005	< 0.005	1.23
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.57	0.57	< 0.005	< 0.005	< 0.005	0.60
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.3. Grading (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.69	3.94	37.6	31.4	0.06	1.77	—	1.77	1.63	—	1.63	—	6,715	6,715	0.27	0.05	—	6,738
Dust From Material Movement	—	—	—	—	—	—	2.67	2.67	—	0.98	0.98	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.69	3.94	37.6	31.4	0.06	1.77	—	1.77	1.63	—	1.63	—	6,715	6,715	0.27	0.05	—	6,738

Dust From Material Movement:	—	—	—	—	—	—	2.67	2.67	—	0.98	0.98	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.86	0.72	6.90	5.76	0.01	0.33	—	0.33	0.30	—	0.30	—	1,233	1,233	0.05	0.01	—	1,237
Dust From Material Movement:	—	—	—	—	—	—	0.49	0.49	—	0.18	0.18	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.13	1.26	1.05	< 0.005	0.06	—	0.06	0.05	—	0.05	—	204	204	0.01	< 0.005	—	205
Dust From Material Movement:	—	—	—	—	—	—	0.09	0.09	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.10	1.69	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	288	288	0.01	0.01	1.15	292
Vendor	0.03	0.01	0.29	0.15	< 0.005	< 0.005	0.01	0.02	< 0.005	0.01	0.01	—	251	251	0.02	0.04	0.70	263
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Worker	0.11	0.10	0.11	1.28	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	264	264	0.01	0.01	0.03	267
Vendor	0.03	0.01	0.30	0.16	< 0.005	< 0.005	0.01	0.02	< 0.005	0.01	0.01	—	251	251	0.02	0.04	0.02	263
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.25	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	49.1	49.1	< 0.005	< 0.005	0.09	49.8
Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	46.0	46.0	< 0.005	0.01	0.06	48.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	8.13	8.13	< 0.005	< 0.005	0.02	8.25
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.62	7.62	< 0.005	< 0.005	0.01	7.99
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.5. Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.79	1.50	13.5	16.3	0.03	0.54	—	0.54	0.50	—	0.50	—	2,942	2,942	0.12	0.02	—	2,952
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.79	1.50	13.5	16.3	0.03	0.54	—	0.54	0.50	—	0.50	—	2,942	2,942	0.12	0.02	—	2,952

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.22	1.02	9.18	11.1	0.02	0.37	—	0.37	0.34	—	0.34	—	2,007	2,007	0.08	0.02	—	2,014	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Off-Road Equipment	0.22	0.19	1.67	2.03	< 0.005	0.07	—	0.07	0.06	—	0.06	—	332	332	0.01	< 0.005	—	333	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	1.18	1.06	1.02	18.1	0.00	0.00	0.19	0.19	0.00	0.00	0.00	—	3,267	3,267	0.14	0.12	12.1	3,317	
Vendor	0.09	0.03	1.06	0.57	0.01	0.01	0.06	0.07	0.01	0.02	0.03	—	956	956	0.07	0.14	2.69	1,004	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	1.11	1.00	1.12	13.6	0.00	0.00	0.19	0.19	0.00	0.00	0.00	—	2,995	2,995	0.14	0.12	0.31	3,033	
Vendor	0.09	0.03	1.11	0.58	0.01	0.01	0.06	0.07	0.01	0.02	0.03	—	957	957	0.07	0.14	0.07	1,002	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.75	0.67	0.83	9.80	0.00	0.00	0.13	0.13	0.00	0.00	0.00	—	2,072	2,072	0.10	0.08	3.57	2,101	
Vendor	0.06	0.02	0.76	0.39	< 0.005	0.01	0.04	0.05	0.01	0.01	0.02	—	653	653	0.05	0.10	0.80	684	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

Worker	0.14	0.12	0.15	1.79	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	343	343	0.02	0.01	0.59	348
Vendor	0.01	< 0.005	0.14	0.07	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	108	108	0.01	0.02	0.13	113
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.7. Paving (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.66	0.55	5.27	6.96	0.01	0.26	—	0.26	0.24	—	0.24	—	1,054	1,054	0.04	0.01	—	1,058
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.62	0.82	< 0.005	0.03	—	0.03	0.03	—	0.03	—	124	124	0.01	< 0.005	—	125
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.11	0.15	< 0.005	0.01	—	0.01	0.01	—	0.01	—	20.6	20.6	< 0.005	< 0.005	—	20.6
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.06	0.64	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	132	132	0.01	< 0.005	0.01	134	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.01	0.01	0.01	0.08	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	15.8	15.8	< 0.005	< 0.005	0.03	16.0	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	2.61	2.61	< 0.005	< 0.005	< 0.005	2.65	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	

### 3.9. Architectural Coating (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.21	0.17	1.18	1.52	< 0.005	0.04	—	0.04	0.03	—	0.03	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	74.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21	0.17	1.18	1.52	< 0.005	0.04	—	0.04	0.03	—	0.03	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	74.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.34	0.44	< 0.005	0.01	—	0.01	0.01	—	0.01	—	51.7	51.7	< 0.005	< 0.005	—	51.9
Architectural Coatings	—	21.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.56	8.56	< 0.005	< 0.005	—	8.59
Architectural Coatings	—	3.93	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.24	0.21	0.20	3.61	0.00	0.00	0.04	0.04	0.00	0.00	0.00	—	653	653	0.03	0.02	2.42	663
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.22	0.20	0.22	2.72	0.00	0.00	0.04	0.04	0.00	0.00	0.00	—	599	599	0.03	0.02	0.06	607
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.07	0.83	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	176	176	0.01	0.01	0.30	179
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.15	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	29.2	29.2	< 0.005	< 0.005	0.05	29.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

## 4. Operations Emissions Details

### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
------------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
---------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	6/1/2024	6/30/2024	5.00	20.0	—
Grading	Grading	7/1/2024	10/1/2024	5.00	67.0	—
Building Construction	Building Construction	1/1/2025	12/15/2025	5.00	249	—
Paving	Paving	11/1/2024	12/31/2024	5.00	43.0	—
Architectural Coating	Architectural Coating	7/20/2025	12/15/2025	5.00	106	—

### 5.2. Off-Road Equipment

#### 5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Building Construction	Cranes	Diesel	Average	1.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74

Building Construction	Tractors/Loaders/Backh	Diesel	Average	3.00	8.00	84.0	0.37
Building Construction	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48
Site Preparation	Crawler Tractors	Diesel	Average	2.00	8.00	87.0	0.43
Grading	Crawler Tractors	Diesel	Average	2.00	8.00	87.0	0.43

## 5.3. Construction Vehicles

### 5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	10.0	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	2.00	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	8.00	10.2	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	232	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	31.0	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT

Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	10.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	0.00	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	46.4	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	0.00	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

## 5.4. Vehicles

### 5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

## 5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	2,542,995	847,665	0.00	0.00	—

## 5.6. Dust Mitigation

### 5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	—	—	100	0.00	—
Grading	—	—	335	0.00	—

Paving	0.00	0.00	0.00	0.00	7.10
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### 5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%

### 5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Single Family Housing	7.10	0%

### 5.8. Construction Electricity Consumption and Emissions Factors

#### kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	0.00	532	0.03	< 0.005
2025	0.00	532	0.03	< 0.005

### 5.18. Vegetation

#### 5.18.1. Land Use Change

##### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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##### 5.18.1. Biomass Cover Type

##### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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## 5.18.2. Sequestration

### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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# 6. Climate Risk Detailed Report

## 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	19.8	annual days of extreme heat
Extreme Precipitation	3.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	6.78	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
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Temperature and Extreme Heat	2	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

### 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	1	1	3
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	77.1
AQ-PM	93.4
AQ-DPM	57.1
Drinking Water	100.0
Lead Risk Housing	17.5
Pesticides	84.9
Toxic Releases	67.6
Traffic	18.1
Effect Indicators	—
CleanUp Sites	80.3
Groundwater	98.1
Haz Waste Facilities/Generators	86.6
Impaired Water Bodies	87.0
Solid Waste	98.9
Sensitive Population	—
Asthma	16.5
Cardio-vascular	29.1
Low Birth Weights	49.0
Socioeconomic Factor Indicators	—

Education	52.9
Housing	59.3
Linguistic	68.9
Poverty	35.4
Unemployment	36.4

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	73.60451687
Employed	6.274862056
Education	—
Bachelor's or higher	64.85307327
High school enrollment	100
Preschool enrollment	66.93186193
Transportation	—
Auto Access	63.41588605
Active commuting	24.5989991
Social	—
2-parent households	66.95752598
Voting	70.69164635
Neighborhood	—
Alcohol availability	97.0101373
Park access	52.77813422
Retail density	10.02181445
Supermarket access	6.557166688



Tree canopy	8.238162453
Housing	—
Homeownership	60.78532016
Housing habitability	61.41408957
Low-inc homeowner severe housing cost burden	71.53856025
Low-inc renter severe housing cost burden	18.38829719
Uncrowded housing	64.30129603
Health Outcomes	—
Insured adults	73.78416528
Arthritis	95.7
Asthma ER Admissions	84.6
High Blood Pressure	97.7
Cancer (excluding skin)	89.7
Asthma	34.7
Coronary Heart Disease	98.7
Chronic Obstructive Pulmonary Disease	94.6
Diagnosed Diabetes	96.0
Life Expectancy at Birth	75.7
Cognitively Disabled	56.3
Physically Disabled	69.8
Heart Attack ER Admissions	68.4
Mental Health Not Good	54.9
Chronic Kidney Disease	97.1
Obesity	68.0
Pedestrian Injuries	19.6
Physical Health Not Good	86.2
Stroke	97.8

Health Risk Behaviors	—
Binge Drinking	28.2
Current Smoker	59.6
No Leisure Time for Physical Activity	76.7
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	9.0
Elderly	91.7
English Speaking	35.1
Foreign-born	48.1
Outdoor Workers	88.5
Climate Change Adaptive Capacity	—
Impervious Surface Cover	78.1
Traffic Density	21.6
Traffic Access	23.0
Other Indices	—
Hardship	45.2
Other Decision Support	—
2016 Voting	74.7

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	72.0
Healthy Places Index Score for Project Location (b)	55.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No

Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No
---	----

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

## 7.4. Health & Equity Measures

No Health & Equity Measures selected.

## 7.5. Evaluation Scorecard

Health and Equity Evaluation Scorecard not completed.

## 8. User Changes to Default Data

Screen	Justification
Land Use	Based on site plan
Construction: Construction Phases	Construction schedule based on information from Project team
Construction: Off-Road Equipment	Construction equipment based on info provided by the Project team
Construction: Dust From Material Movement	Assumes 5 acres will be graded per day
Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Demolition, Site Preparation, Grading, and Building Construction.

# 14252 Subarea 29 PA 34 Construction Mitigated Detailed Report

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# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	14252 Subarea 29 PA 34 Construction Mitigated
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.60
Precipitation (days)	18.8
Location	33.98770141653418, -117.57358086057334
County	San Bernardino-South Coast
City	Ontario
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5260
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Junior High School	1,200	Student	20.0	141,074	435,600	435,600	—	—

## 1.3. User-Selected Emission Reduction Measures by Emissions Sector



No measures selected

## 2. Emissions Summary

### 2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.32	2.56	30.3	38.0	0.06	1.07	3.82	4.30	0.96	1.81	2.24	—	7,041	7,041	0.29	0.14	5.54	7,070
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.30	2.53	30.3	37.6	0.06	1.07	2.94	4.01	0.96	1.04	2.00	—	7,016	7,016	0.29	0.14	0.14	7,044
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.76	1.05	12.3	17.8	0.03	0.27	0.68	0.95	0.25	0.16	0.41	—	3,259	3,259	0.15	0.09	1.43	3,291
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.14	0.19	2.24	3.25	< 0.005	0.05	0.12	0.17	0.05	0.03	0.08	—	540	540	0.02	0.01	0.24	545

### 2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	1.25	1.23	30.3	38.0	0.06	1.07	3.82	4.30	0.96	1.81	2.24	—	7,041	7,041	0.29	0.07	1.35	7,070
2024	1.07	0.96	15.5	23.5	0.03	0.36	0.90	1.26	0.33	0.22	0.55	—	4,265	4,265	0.19	0.12	4.72	4,311

2025	1.32	2.56	21.8	33.5	0.05	0.45	1.19	1.64	0.41	0.28	0.70	—	5,779	5,779	0.25	0.14	5.54	5,834
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	1.24	1.23	30.3	37.6	0.06	1.07	2.94	4.01	0.96	1.04	2.00	—	7,016	7,016	0.29	0.07	0.04	7,044
2024	1.05	0.94	15.6	22.3	0.03	0.36	0.90	1.26	0.33	0.22	0.55	—	4,194	4,194	0.19	0.12	0.12	4,236
2025	1.30	2.53	21.8	31.9	0.05	0.45	1.19	1.64	0.41	0.28	0.70	—	5,684	5,684	0.25	0.14	0.14	5,734
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.11	0.10	2.56	3.21	0.01	0.09	0.38	0.47	0.08	0.16	0.24	—	602	602	0.02	0.01	0.05	605
2024	0.32	0.29	4.76	6.87	0.01	0.11	0.27	0.38	0.10	0.07	0.17	—	1,284	1,284	0.06	0.04	0.62	1,297
2025	0.76	1.05	12.3	17.8	0.03	0.27	0.68	0.95	0.25	0.16	0.41	—	3,259	3,259	0.15	0.09	1.43	3,291
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.02	0.02	0.47	0.59	< 0.005	0.02	0.07	0.09	0.01	0.03	0.04	—	99.7	99.7	< 0.005	< 0.005	0.01	100
2024	0.06	0.05	0.87	1.25	< 0.005	0.02	0.05	0.07	0.02	0.01	0.03	—	213	213	0.01	0.01	0.10	215
2025	0.14	0.19	2.24	3.25	< 0.005	0.05	0.12	0.17	0.05	0.03	0.08	—	540	540	0.02	0.01	0.24	545

### 3. Construction Emissions Details

#### 3.1. Site Preparation (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.57	0.57	14.9	18.3	0.03	0.48	—	0.48	0.43	—	0.43	—	3,454	3,454	0.14	0.03	—	3,466

Dust From Material Movement:	—	—	—	—	—	—	3.68	3.68	—	1.78	1.78	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.81	1.01	< 0.005	0.03	—	0.03	0.02	—	0.02	—	189	189	0.01	< 0.005	—	190
Dust From Material Movement:	—	—	—	—	—	—	0.20	0.20	—	0.10	0.10	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.15	0.18	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	31.3	31.3	< 0.005	< 0.005	—	31.4
Dust From Material Movement:	—	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	0.93	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	147	147	0.01	< 0.005	0.63	149
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	31.7	31.7	< 0.005	< 0.005	0.09	33.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	7.48	7.48	< 0.005	< 0.005	0.01	7.59
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.74	1.74	< 0.005	< 0.005	< 0.005	1.82
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	1.24	1.24	< 0.005	< 0.005	< 0.005	1.26
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.29	0.29	< 0.005	< 0.005	< 0.005	0.30
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.3. Grading (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.12	1.12	30.1	36.2	0.06	1.07	—	1.07	0.96	—	0.96	—	6,715	6,715	0.27	0.05	—	6,738
Dust From Material Movement	—	—	—	—	—	—	2.67	2.67	—	0.98	0.98	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.12	1.12	30.1	36.2	0.06	1.07	—	1.07	0.96	—	0.96	—	6,715	6,715	0.27	0.05	—	6,738
Dust From Material Movement:	—	—	—	—	—	—	2.67	2.67	—	0.98	0.98	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	1.73	2.08	< 0.005	0.06	—	0.06	0.06	—	0.06	—	386	386	0.02	< 0.005	—	388
Dust From Material Movement:	—	—	—	—	—	—	0.15	0.15	—	0.06	0.06	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.32	0.38	< 0.005	0.01	—	0.01	0.01	—	0.01	—	64.0	64.0	< 0.005	< 0.005	—	64.2
Dust From Material Movement:	—	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.11	0.11	1.85	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	294	294	0.01	0.01	1.26	298
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	31.7	31.7	< 0.005	< 0.005	0.09	33.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.12	1.39	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	269	269	0.01	0.01	0.03	273
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	31.7	31.7	< 0.005	< 0.005	< 0.005	33.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	15.7	15.7	< 0.005	< 0.005	0.03	15.9
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.82	1.82	< 0.005	< 0.005	< 0.005	1.91
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	2.60	2.60	< 0.005	< 0.005	0.01	2.64
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.30	0.30	< 0.005	< 0.005	< 0.005	0.32
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.5. Building Construction (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	0.64	14.7	18.2	0.03	0.35	—	0.35	0.32	—	0.32	—	2,942	2,942	0.12	0.02	—	2,952
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.68	0.64	14.7	18.2	0.03	0.35	—	0.35	0.32	—	0.32	—	2,942	2,942	0.12	0.02	—	2,952
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21	0.19	4.48	5.56	0.01	0.11	—	0.11	0.10	—	0.10	—	898	898	0.04	0.01	—	901
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.82	1.02	< 0.005	0.02	—	0.02	0.02	—	0.02	—	149	149	0.01	< 0.005	—	149
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.34	0.31	0.29	5.01	0.00	0.00	0.05	0.05	0.00	0.00	0.00	—	853	853	0.04	0.03	3.41	866
Vendor	0.05	0.01	0.54	0.29	< 0.005	0.01	0.03	0.03	0.01	0.01	0.02	—	470	470	0.04	0.07	1.31	493
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.32	0.29	0.34	3.79	0.00	0.00	0.05	0.05	0.00	0.00	0.00	—	782	782	0.04	0.03	0.09	792
Vendor	0.05	0.01	0.56	0.29	< 0.005	0.01	0.03	0.03	0.01	0.01	0.02	—	471	471	0.04	0.07	0.03	492
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.10	1.21	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	242	242	0.01	0.01	0.45	245
Vendor	0.02	< 0.005	0.17	0.09	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	—	144	144	0.01	0.02	0.17	150

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.22	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	40.1	40.1	< 0.005	< 0.005	0.07	40.6
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	23.8	23.8	< 0.005	< 0.005	0.03	24.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.7. Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	0.63	14.7	18.2	0.03	0.35	—	0.35	0.32	—	0.32	—	2,942	2,942	0.12	0.02	—	2,952
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	0.63	14.7	18.2	0.03	0.35	—	0.35	0.32	—	0.32	—	2,942	2,942	0.12	0.02	—	2,952
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.43	10.0	12.4	0.02	0.24	—	0.24	0.22	—	0.22	—	2,009	2,009	0.08	0.02	—	2,016
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Off-Road Equipment	0.08	0.08	1.83	2.27	< 0.005	0.04	—	0.04	0.04	—	0.04	—	333	333	0.01	< 0.005	—	334
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.30	0.27	0.26	4.61	0.00	0.00	0.05	0.05	0.00	0.00	0.00	—	835	835	0.03	0.03	3.10	848
Vendor	0.05	0.01	0.51	0.28	< 0.005	0.01	0.03	0.03	0.01	0.01	0.02	—	463	463	0.04	0.07	1.30	486
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.28	0.25	0.29	3.48	0.00	0.00	0.05	0.05	0.00	0.00	0.00	—	765	765	0.04	0.03	0.08	775
Vendor	0.05	0.01	0.54	0.28	< 0.005	0.01	0.03	0.03	0.01	0.01	0.02	—	463	463	0.04	0.07	0.03	485
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.19	0.17	0.21	2.51	0.00	0.00	0.03	0.03	0.00	0.00	0.00	—	530	530	0.02	0.02	0.91	538
Vendor	0.03	0.01	0.37	0.19	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	316	316	0.02	0.05	0.39	331
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.04	0.46	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	87.8	87.8	< 0.005	< 0.005	0.15	89.0
Vendor	0.01	< 0.005	0.07	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	52.3	52.3	< 0.005	0.01	0.06	54.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.9. Paving (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
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Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.16	4.82	7.39	0.01	0.05	—	0.05	0.05	—	0.05	—	1,054	1,054	0.04	0.01	—	1,058
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.16	4.82	7.39	0.01	0.05	—	0.05	0.05	—	0.05	—	1,054	1,054	0.04	0.01	—	1,058
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	1.28	1.96	< 0.005	0.01	—	0.01	0.01	—	0.01	—	280	280	0.01	< 0.005	—	281
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.23	0.36	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	46.4	46.4	< 0.005	< 0.005	—	46.5
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.78	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	141	141	0.01	< 0.005	0.52	143
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.05	0.59	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	129	129	0.01	< 0.005	0.01	131
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.16	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	34.8	34.8	< 0.005	< 0.005	0.06	35.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	5.76	5.76	< 0.005	< 0.005	0.01	5.85
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.11. Architectural Coating (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.03	0.03	1.43	1.28	< 0.005	0.04	—	0.04	0.04	—	0.04	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	1.35	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	1.43	1.28	< 0.005	0.04	—	0.04	0.04	—	0.04	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	1.35	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.38	0.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	47.3	47.3	< 0.005	< 0.005	—	47.5
Architectural Coatings	—	0.36	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.07	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.83	7.83	< 0.005	< 0.005	—	7.86
Architectural Coatings	—	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.05	0.92	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	167	167	0.01	0.01	0.62	170
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.06	0.70	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	153	153	0.01	0.01	0.02	155
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.02	0.20	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	41.3	41.3	< 0.005	< 0.005	0.07	41.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	6.83	6.83	< 0.005	< 0.005	0.01	6.93
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

## 4. Operations Emissions Details

### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	4/1/2023	4/30/2023	5.00	20.0	—
Grading	Grading	9/1/2023	10/1/2023	5.00	21.0	—
Building Construction	Building Construction	7/29/2024	12/15/2025	5.00	361	—
Paving	Paving	8/1/2025	12/15/2025	5.00	97.0	—
Architectural Coating	Architectural Coating	8/1/2025	12/15/2025	5.00	97.0	—

### 5.2. Off-Road Equipment

#### 5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Tier 3	2.00	8.00	367	0.40
Grading	Excavators	Diesel	Tier 4 Interim	2.00	8.00	36.0	0.38
Grading	Graders	Diesel	Tier 3	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 3	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Tier 3	2.00	8.00	423	0.48
Building Construction	Cranes	Diesel	Tier 3	1.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 4 Interim	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Tier 4 Interim	2.00	8.00	14.0	0.74



Building Construction	Tractors/Loaders/Backh	Diesel	Tier 4 Interim	3.00	8.00	84.0	0.37
Building Construction	Welders	Diesel	Tier 4 Interim	2.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Tier 4 Interim	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Interim	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Tier 4 Interim	1.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Tier 4 Interim	1.00	8.00	37.0	0.48
Site Preparation	Crawler Tractors	Diesel	Tier 4 Interim	2.00	8.00	87.0	0.43
Grading	Crawler Tractors	Diesel	Tier 4 Interim	2.00	8.00	87.0	0.43

## 5.3. Construction Vehicles

### 5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	10.0	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	1.00	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	1.00	10.2	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	59.3	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	15.0	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT

Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	10.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	0.00	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	11.9	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	0.00	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

## 5.4. Vehicles

### 5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

## 5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	211,611	70,537	—

## 5.6. Dust Mitigation

### 5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	—	—	100	0.00	—
Grading	—	—	105	0.00	—

Paving	0.00	0.00	0.00	0.00	0.00
--------	------	------	------	------	------

### 5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%

### 5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Junior High School	0.00	0%

### 5.8. Construction Electricity Consumption and Emissions Factors

#### kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2023	0.00	532	0.03	< 0.005
2024	0.00	532	0.03	< 0.005
2025	0.00	532	0.03	< 0.005

### 5.18. Vegetation

#### 5.18.1. Land Use Change

##### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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##### 5.18.1.1. Biomass Cover Type

### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	19.8	annual days of extreme heat
Extreme Precipitation	3.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	6.78	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	1	1	3
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	77.1
AQ-PM	93.4
AQ-DPM	57.1
Drinking Water	100.0
Lead Risk Housing	17.5
Pesticides	84.9
Toxic Releases	67.6
Traffic	18.1
Effect Indicators	—
CleanUp Sites	80.3
Groundwater	98.1
Haz Waste Facilities/Generators	86.6
Impaired Water Bodies	87.0
Solid Waste	98.9
Sensitive Population	—
Asthma	16.5
Cardio-vascular	29.1

Low Birth Weights	49.0
Socioeconomic Factor Indicators	—
Education	52.9
Housing	59.3
Linguistic	68.9
Poverty	35.4
Unemployment	36.4

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	73.60451687
Employed	6.274862056
Education	—
Bachelor's or higher	64.85307327
High school enrollment	100
Preschool enrollment	66.93186193
Transportation	—
Auto Access	63.41588605
Active commuting	24.5989991
Social	—
2-parent households	66.95752598
Voting	70.69164635
Neighborhood	—
Alcohol availability	97.0101373
Park access	52.77813422

Retail density	10.02181445
Supermarket access	6.557166688
Tree canopy	8.238162453
Housing	—
Homeownership	60.78532016
Housing habitability	61.41408957
Low-inc homeowner severe housing cost burden	71.53856025
Low-inc renter severe housing cost burden	18.38829719
Uncrowded housing	64.30129603
Health Outcomes	—
Insured adults	73.78416528
Arthritis	95.7
Asthma ER Admissions	84.6
High Blood Pressure	97.7
Cancer (excluding skin)	89.7
Asthma	34.7
Coronary Heart Disease	98.7
Chronic Obstructive Pulmonary Disease	94.6
Diagnosed Diabetes	96.0
Life Expectancy at Birth	75.7
Cognitively Disabled	56.3
Physically Disabled	69.8
Heart Attack ER Admissions	68.4
Mental Health Not Good	54.9
Chronic Kidney Disease	97.1
Obesity	68.0
Pedestrian Injuries	19.6



Physical Health Not Good	86.2
Stroke	97.8
Health Risk Behaviors	—
Binge Drinking	28.2
Current Smoker	59.6
No Leisure Time for Physical Activity	76.7
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	9.0
Elderly	91.7
English Speaking	35.1
Foreign-born	48.1
Outdoor Workers	88.5
Climate Change Adaptive Capacity	—
Impervious Surface Cover	78.1
Traffic Density	21.6
Traffic Access	23.0
Other Indices	—
Hardship	45.2
Other Decision Support	—
2016 Voting	74.7

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	72.0
Healthy Places Index Score for Project Location (b)	55.0

Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

## 7.4. Health & Equity Measures

No Health & Equity Measures selected.

## 7.5. Evaluation Scorecard

Health and Equity Evaluation Scorecard not completed.

## 8. User Changes to Default Data

Screen	Justification
Land Use	Based on Project site plan
Construction: Construction Phases	Construction schedule based on information from Project team
Construction: Off-Road Equipment	Construction equipment based on information provided by the Project team
Construction: Dust From Material Movement	Assumes 5 acres will be graded per day
Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Demolition, Site Preparation, Grading, and Building Construction.
Construction: Architectural Coatings	Project will utilize super-compliant architectural coatings

# 14252 Subarea 29 PA 34 Construction Unmitigated Detailed Report

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# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	14252 Subarea 29 PA 34 Construction Unmitigated
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.60
Precipitation (days)	18.8
Location	33.98770141653418, -117.57358086057334
County	San Bernardino-South Coast
City	Ontario
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5260
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Junior High School	1,200	Student	20.0	141,074	435,600	435,600	—	—

## 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.12	16.1	41.1	34.5	0.06	1.96	3.82	5.35	1.80	1.81	3.22	—	7,041	7,041	0.29	0.14	5.54	7,070
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.11	16.0	41.1	34.1	0.06	1.96	2.94	4.90	1.80	1.04	2.84	—	7,016	7,016	0.29	0.14	0.14	7,044
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.69	4.99	11.4	16.4	0.03	0.44	0.68	1.13	0.41	0.16	0.57	—	3,259	3,259	0.15	0.09	1.43	3,291
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.31	0.91	2.09	3.00	< 0.005	0.08	0.12	0.21	0.07	0.03	0.10	—	540	540	0.02	0.01	0.24	545

### 2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	5.12	4.31	41.1	34.5	0.06	1.96	3.82	5.35	1.80	1.81	3.22	—	7,041	7,041	0.29	0.07	1.35	7,070
2024	2.29	1.91	15.2	21.7	0.03	0.63	0.90	1.53	0.58	0.22	0.79	—	4,265	4,265	0.19	0.12	4.72	4,311



2025	3.07	16.1	20.5	31.4	0.05	0.81	1.19	2.00	0.74	0.28	1.03	—	5,779	5,779	0.25	0.14	5.54	5,834
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	5.11	4.30	41.1	34.1	0.06	1.96	2.94	4.90	1.80	1.04	2.84	—	7,016	7,016	0.29	0.07	0.04	7,044
2024	2.28	1.90	15.3	20.5	0.03	0.63	0.90	1.53	0.58	0.22	0.79	—	4,194	4,194	0.19	0.12	0.12	4,236
2025	3.04	16.0	20.5	29.8	0.05	0.81	1.19	2.00	0.74	0.28	1.03	—	5,684	5,684	0.25	0.14	0.14	5,734
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.49	0.42	3.97	3.30	0.01	0.20	0.38	0.57	0.18	0.16	0.34	—	602	602	0.02	0.01	0.05	605
2024	0.69	0.58	4.66	6.32	0.01	0.19	0.27	0.46	0.18	0.07	0.24	—	1,284	1,284	0.06	0.04	0.62	1,297
2025	1.69	4.99	11.4	16.4	0.03	0.44	0.68	1.13	0.41	0.16	0.57	—	3,259	3,259	0.15	0.09	1.43	3,291
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.09	0.08	0.73	0.60	< 0.005	0.04	0.07	0.10	0.03	0.03	0.06	—	99.7	99.7	< 0.005	< 0.005	0.01	100
2024	0.13	0.11	0.85	1.15	< 0.005	0.03	0.05	0.08	0.03	0.01	0.04	—	213	213	0.01	0.01	0.10	215
2025	0.31	0.91	2.09	3.00	< 0.005	0.08	0.12	0.21	0.07	0.03	0.10	—	540	540	0.02	0.01	0.24	545

### 3. Construction Emissions Details

#### 3.1. Site Preparation (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.60	3.03	29.3	23.6	0.03	1.53	—	1.53	1.40	—	1.40	—	3,454	3,454	0.14	0.03	—	3,466

Dust From Material Movement:	—	—	—	—	—	—	3.68	3.68	—	1.78	1.78	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	0.17	1.60	1.29	< 0.005	0.08	—	0.08	0.08	—	0.08	—	189	189	0.01	< 0.005	—	190
Dust From Material Movement:	—	—	—	—	—	—	0.20	0.20	—	0.10	0.10	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.29	0.24	< 0.005	0.02	—	0.02	0.01	—	0.01	—	31.3	31.3	< 0.005	< 0.005	—	31.4
Dust From Material Movement:	—	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	0.93	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	147	147	0.01	< 0.005	0.63	149
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	31.7	31.7	< 0.005	< 0.005	0.09	33.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	7.48	7.48	< 0.005	< 0.005	0.01	7.59
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.74	1.74	< 0.005	< 0.005	< 0.005	1.82
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	1.24	1.24	< 0.005	< 0.005	< 0.005	1.26
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.29	0.29	< 0.005	< 0.005	< 0.005	0.30
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.3. Grading (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	5.00	4.20	40.9	32.7	0.06	1.96	—	1.96	1.80	—	1.80	—	6,715	6,715	0.27	0.05	—	6,738
Dust From Material Movement	—	—	—	—	—	—	2.67	2.67	—	0.98	0.98	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	5.00	4.20	40.9	32.7	0.06	1.96	—	1.96	1.80	—	1.80	—	6,715	6,715	0.27	0.05	—	6,738
Dust From Material Movement:	—	—	—	—	—	—	2.67	2.67	—	0.98	0.98	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29	0.24	2.36	1.88	< 0.005	0.11	—	0.11	0.10	—	0.10	—	386	386	0.02	< 0.005	—	388
Dust From Material Movement:	—	—	—	—	—	—	0.15	0.15	—	0.06	0.06	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.43	0.34	< 0.005	0.02	—	0.02	0.02	—	0.02	—	64.0	64.0	< 0.005	< 0.005	—	64.2
Dust From Material Movement:	—	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.11	0.11	1.85	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	294	294	0.01	0.01	1.26	298
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	31.7	31.7	< 0.005	< 0.005	0.09	33.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.12	1.39	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	269	269	0.01	0.01	0.03	273
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	31.7	31.7	< 0.005	< 0.005	< 0.005	33.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	15.7	15.7	< 0.005	< 0.005	0.03	15.9
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.82	1.82	< 0.005	< 0.005	< 0.005	1.91
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	2.60	2.60	< 0.005	< 0.005	0.01	2.64
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.30	0.30	< 0.005	< 0.005	< 0.005	0.32
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.5. Building Construction (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.90	1.59	14.4	16.4	0.03	0.62	—	0.62	0.57	—	0.57	—	2,942	2,942	0.12	0.02	—	2,952
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.90	1.59	14.4	16.4	0.03	0.62	—	0.62	0.57	—	0.57	—	2,942	2,942	0.12	0.02	—	2,952
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.58	0.49	4.38	5.01	0.01	0.19	—	0.19	0.17	—	0.17	—	898	898	0.04	0.01	—	901
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.80	0.91	< 0.005	0.03	—	0.03	0.03	—	0.03	—	149	149	0.01	< 0.005	—	149
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.34	0.31	0.29	5.01	0.00	0.00	0.05	0.05	0.00	0.00	0.00	—	853	853	0.04	0.03	3.41	866
Vendor	0.05	0.01	0.54	0.29	< 0.005	0.01	0.03	0.03	0.01	0.01	0.02	—	470	470	0.04	0.07	1.31	493
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.32	0.29	0.34	3.79	0.00	0.00	0.05	0.05	0.00	0.00	0.00	—	782	782	0.04	0.03	0.09	792
Vendor	0.05	0.01	0.56	0.29	< 0.005	0.01	0.03	0.03	0.01	0.01	0.02	—	471	471	0.04	0.07	0.03	492
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.10	1.21	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	242	242	0.01	0.01	0.45	245
Vendor	0.02	< 0.005	0.17	0.09	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	—	144	144	0.01	0.02	0.17	150

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.22	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	40.1	40.1	< 0.005	< 0.005	0.07	40.6
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	23.8	23.8	< 0.005	< 0.005	0.03	24.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.7. Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.79	1.50	13.5	16.3	0.03	0.54	—	0.54	0.50	—	0.50	—	2,942	2,942	0.12	0.02	—	2,952
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.79	1.50	13.5	16.3	0.03	0.54	—	0.54	0.50	—	0.50	—	2,942	2,942	0.12	0.02	—	2,952
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.22	1.02	9.19	11.1	0.02	0.37	—	0.37	0.34	—	0.34	—	2,009	2,009	0.08	0.02	—	2,016
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.22	0.19	1.68	2.03	< 0.005	0.07	—	0.07	0.06	—	0.06	—	333	333	0.01	< 0.005	—	334
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.30	0.27	0.26	4.61	0.00	0.00	0.05	0.05	0.00	0.00	0.00	—	835	835	0.03	0.03	3.10	848
Vendor	0.05	0.01	0.51	0.28	< 0.005	0.01	0.03	0.03	0.01	0.01	0.02	—	463	463	0.04	0.07	1.30	486
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.28	0.25	0.29	3.48	0.00	0.00	0.05	0.05	0.00	0.00	0.00	—	765	765	0.04	0.03	0.08	775
Vendor	0.05	0.01	0.54	0.28	< 0.005	0.01	0.03	0.03	0.01	0.01	0.02	—	463	463	0.04	0.07	0.03	485
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.19	0.17	0.21	2.51	0.00	0.00	0.03	0.03	0.00	0.00	0.00	—	530	530	0.02	0.02	0.91	538
Vendor	0.03	0.01	0.37	0.19	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	316	316	0.02	0.05	0.39	331
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.04	0.46	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	87.8	87.8	< 0.005	< 0.005	0.15	89.0
Vendor	0.01	< 0.005	0.07	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	52.3	52.3	< 0.005	0.01	0.06	54.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.9. Paving (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
----------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------



Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.61	0.51	4.98	6.92	0.01	0.22	—	0.22	0.21	—	0.21	—	1,054	1,054	0.04	0.01	—	1,058
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.61	0.51	4.98	6.92	0.01	0.22	—	0.22	0.21	—	0.21	—	1,054	1,054	0.04	0.01	—	1,058
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.14	1.32	1.84	< 0.005	0.06	—	0.06	0.05	—	0.05	—	280	280	0.01	< 0.005	—	281
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.24	0.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	46.4	46.4	< 0.005	< 0.005	—	46.5
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.78	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	141	141	0.01	< 0.005	0.52	143
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.05	0.59	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	129	129	0.01	< 0.005	0.01	131
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.16	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	34.8	34.8	< 0.005	< 0.005	0.06	35.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	5.76	5.76	< 0.005	< 0.005	0.01	5.85
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.11. Architectural Coating (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.21	0.17	1.18	1.52	< 0.005	0.04	—	0.04	0.03	—	0.03	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	13.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21	0.17	1.18	1.52	< 0.005	0.04	—	0.04	0.03	—	0.03	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	13.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	0.31	0.40	< 0.005	0.01	—	0.01	0.01	—	0.01	—	47.3	47.3	< 0.005	< 0.005	—	47.5
Architectural Coatings	—	3.58	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.83	7.83	< 0.005	< 0.005	—	7.86
Architectural Coatings	—	0.65	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.05	0.92	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	167	167	0.01	0.01	0.62	170
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.06	0.70	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	153	153	0.01	0.01	0.02	155
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.02	0.20	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	41.3	41.3	< 0.005	< 0.005	0.07	41.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	6.83	6.83	< 0.005	< 0.005	0.01	6.93
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

## 4. Operations Emissions Details

### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
------------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
---------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	4/1/2023	4/30/2023	5.00	20.0	—
Grading	Grading	9/1/2023	10/1/2023	5.00	21.0	—
Building Construction	Building Construction	7/29/2024	12/15/2025	5.00	361	—
Paving	Paving	8/1/2025	12/15/2025	5.00	97.0	—
Architectural Coating	Architectural Coating	8/1/2025	12/15/2025	5.00	97.0	—

### 5.2. Off-Road Equipment

#### 5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Building Construction	Cranes	Diesel	Average	1.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74

Building Construction	Tractors/Loaders/Backh	Diesel	Average	3.00	8.00	84.0	0.37
Building Construction	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48
Site Preparation	Crawler Tractors	Diesel	Average	2.00	8.00	87.0	0.43
Grading	Crawler Tractors	Diesel	Average	2.00	8.00	87.0	0.43

## 5.3. Construction Vehicles

### 5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	10.0	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	1.00	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	1.00	10.2	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	59.3	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	15.0	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT



Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	10.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	0.00	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	11.9	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	0.00	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

## 5.4. Vehicles

### 5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

## 5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	211,611	70,537	—

## 5.6. Dust Mitigation

### 5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	—	—	100	0.00	—
Grading	—	—	105	0.00	—

Paving	0.00	0.00	0.00	0.00	0.00
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### 5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%

### 5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Junior High School	0.00	0%

### 5.8. Construction Electricity Consumption and Emissions Factors

#### kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2023	0.00	532	0.03	< 0.005
2024	0.00	532	0.03	< 0.005
2025	0.00	532	0.03	< 0.005

### 5.18. Vegetation

#### 5.18.1. Land Use Change

##### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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##### 5.18.1.1. Biomass Cover Type

### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	19.8	annual days of extreme heat
Extreme Precipitation	3.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	6.78	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	1	1	3
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	77.1
AQ-PM	93.4
AQ-DPM	57.1
Drinking Water	100.0
Lead Risk Housing	17.5
Pesticides	84.9
Toxic Releases	67.6
Traffic	18.1
Effect Indicators	—
CleanUp Sites	80.3
Groundwater	98.1
Haz Waste Facilities/Generators	86.6
Impaired Water Bodies	87.0
Solid Waste	98.9
Sensitive Population	—
Asthma	16.5
Cardio-vascular	29.1

Low Birth Weights	49.0
Socioeconomic Factor Indicators	—
Education	52.9
Housing	59.3
Linguistic	68.9
Poverty	35.4
Unemployment	36.4

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	73.60451687
Employed	6.274862056
Education	—
Bachelor's or higher	64.85307327
High school enrollment	100
Preschool enrollment	66.93186193
Transportation	—
Auto Access	63.41588605
Active commuting	24.5989991
Social	—
2-parent households	66.95752598
Voting	70.69164635
Neighborhood	—
Alcohol availability	97.0101373
Park access	52.77813422

Retail density	10.02181445
Supermarket access	6.557166688
Tree canopy	8.238162453
Housing	—
Homeownership	60.78532016
Housing habitability	61.41408957
Low-inc homeowner severe housing cost burden	71.53856025
Low-inc renter severe housing cost burden	18.38829719
Uncrowded housing	64.30129603
Health Outcomes	—
Insured adults	73.78416528
Arthritis	95.7
Asthma ER Admissions	84.6
High Blood Pressure	97.7
Cancer (excluding skin)	89.7
Asthma	34.7
Coronary Heart Disease	98.7
Chronic Obstructive Pulmonary Disease	94.6
Diagnosed Diabetes	96.0
Life Expectancy at Birth	75.7
Cognitively Disabled	56.3
Physically Disabled	69.8
Heart Attack ER Admissions	68.4
Mental Health Not Good	54.9
Chronic Kidney Disease	97.1
Obesity	68.0
Pedestrian Injuries	19.6

Physical Health Not Good	86.2
Stroke	97.8
Health Risk Behaviors	—
Binge Drinking	28.2
Current Smoker	59.6
No Leisure Time for Physical Activity	76.7
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	9.0
Elderly	91.7
English Speaking	35.1
Foreign-born	48.1
Outdoor Workers	88.5
Climate Change Adaptive Capacity	—
Impervious Surface Cover	78.1
Traffic Density	21.6
Traffic Access	23.0
Other Indices	—
Hardship	45.2
Other Decision Support	—
2016 Voting	74.7

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	72.0
Healthy Places Index Score for Project Location (b)	55.0



Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

## 7.4. Health & Equity Measures

No Health & Equity Measures selected.

## 7.5. Evaluation Scorecard

Health and Equity Evaluation Scorecard not completed.

## 8. User Changes to Default Data

Screen	Justification
Land Use	Based on Project site plan
Construction: Construction Phases	Construction schedule based on information from Project team
Construction: Off-Road Equipment	Construction equipment based on information provided by the Project team
Construction: Dust From Material Movement	Assumes 5 acres will be graded per day
Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Demolition, Site Preparation, Grading, and Building Construction.

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## **APPENDIX 3.2:**

### **CALEEMOD OPERATIONAL EMISSIONS MODEL OUTPUTS**

# 14252 Subarea 29 Ops Detailed Report

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# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	14252 Subarea 29 Ops
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.60
Precipitation (days)	18.8
Location	33.98728247386164, -117.57215978119922
County	San Bernardino-South Coast
City	Ontario
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5260
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Single Family Housing	1,470	Dwelling Unit	131	2,866,500	4,730,260	—	4,866	—
Junior High School	1,200	Student	20.0	141,074	435,600	435,600	—	—

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	85.8	145	108	802	1.96	4.00	58.4	62.4	3.94	10.4	14.3	472	234,185	234,657	58.1	8.25	686	239,254
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	72.4	132	112	587	1.84	3.96	58.4	62.4	3.89	10.4	14.3	472	222,699	223,171	58.3	8.49	38.3	227,197
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	71.9	133	88.1	619	1.60	2.24	53.8	56.0	2.18	9.57	11.8	472	185,470	185,942	57.3	7.93	286	190,024
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	13.1	24.3	16.1	113	0.29	0.41	9.81	10.2	0.40	1.75	2.15	78.2	30,707	30,785	9.49	1.31	47.3	31,461

### 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	72.8	64.8	72.3	698	1.73	1.18	58.4	59.6	1.10	10.4	11.5	—	177,725	177,725	7.47	7.70	665	180,871
Area	11.6	79.4	22.8	98.7	0.14	1.81	—	1.81	1.83	—	1.83	0.00	28,105	28,105	0.53	0.08	—	28,141
Energy	1.46	0.73	12.5	5.71	0.08	1.01	—	1.01	1.01	—	1.01	—	27,388	27,388	2.49	0.16	—	27,499
Water	—	—	—	—	—	—	—	—	—	—	—	123	967	1,090	12.7	0.31	—	1,500
Waste	—	—	—	—	—	—	—	—	—	—	—	349	0.00	349	34.9	0.00	—	1,222
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.1	21.1
Total	85.8	145	108	802	1.96	4.00	58.4	62.4	3.94	10.4	14.3	472	234,185	234,657	58.1	8.25	686	239,254
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	68.3	60.3	77.8	572	1.62	1.18	58.4	59.6	1.10	10.4	11.5	—	166,487	166,487	7.68	7.96	17.2	169,069
Area	2.57	70.9	21.9	9.34	0.14	1.77	—	1.77	1.77	—	1.77	0.00	27,857	27,857	0.52	0.05	—	27,886
Energy	1.46	0.73	12.5	5.71	0.08	1.01	—	1.01	1.01	—	1.01	—	27,388	27,388	2.49	0.16	—	27,499
Water	—	—	—	—	—	—	—	—	—	—	—	123	967	1,090	12.7	0.31	—	1,500
Waste	—	—	—	—	—	—	—	—	—	—	—	349	0.00	349	34.9	0.00	—	1,222
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.1	21.1
Total	72.4	132	112	587	1.84	3.96	58.4	62.4	3.89	10.4	14.3	472	222,699	223,171	58.3	8.49	38.3	227,197
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	64.1	56.7	73.5	552	1.51	1.09	53.8	54.9	1.02	9.57	10.6	—	155,037	155,037	7.17	7.44	265	157,697
Area	6.34	75.5	2.10	61.8	0.01	0.15	—	0.15	0.16	—	0.16	0.00	2,078	2,078	0.04	0.02	—	2,085
Energy	1.46	0.73	12.5	5.71	0.08	1.01	—	1.01	1.01	—	1.01	—	27,388	27,388	2.49	0.16	—	27,499
Water	—	—	—	—	—	—	—	—	—	—	—	123	967	1,090	12.7	0.31	—	1,500
Waste	—	—	—	—	—	—	—	—	—	—	—	349	0.00	349	34.9	0.00	—	1,222
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.1	21.1
Total	71.9	133	88.1	619	1.60	2.24	53.8	56.0	2.18	9.57	11.8	472	185,470	185,942	57.3	7.93	286	190,024
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	11.7	10.3	13.4	101	0.28	0.20	9.81	10.0	0.19	1.75	1.93	—	25,668	25,668	1.19	1.23	43.8	26,109
Area	1.16	13.8	0.38	11.3	< 0.005	0.03	—	0.03	0.03	—	0.03	0.00	344	344	0.01	< 0.005	—	345

Energy	0.27	0.13	2.29	1.04	0.01	0.18	—	0.18	0.18	—	0.18	—	4,534	4,534	0.41	0.03	—	4,553
Water	—	—	—	—	—	—	—	—	—	—	—	20.4	160	180	2.10	0.05	—	248
Waste	—	—	—	—	—	—	—	—	—	—	—	57.8	0.00	57.8	5.78	0.00	—	202
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.49	3.49
Total	13.1	24.3	16.1	113	0.29	0.41	9.81	10.2	0.40	1.75	2.15	78.2	30,707	30,785	9.49	1.31	47.3	31,461

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	58.7	52.8	53.9	515	1.26	0.86	7.10	7.96	0.81	2.20	3.00	—	128,902	128,902	5.69	5.70	481	131,225
Junior High School	14.1	12.0	18.4	182	0.48	0.32	2.72	3.03	0.30	0.84	1.14	—	48,822	48,822	1.78	2.00	184	49,646
Total	72.8	64.8	72.3	698	1.73	1.18	9.82	11.0	1.10	3.04	4.14	—	177,725	177,725	7.47	7.70	665	180,871
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	55.0	49.0	58.0	427	1.18	0.86	7.10	7.96	0.81	2.20	3.00	—	120,779	120,779	5.88	5.90	12.5	122,696

Junior High School	13.3	11.3	19.8	146	0.45	0.32	2.72	3.03	0.30	0.84	1.14	—	45,708	45,708	1.80	2.06	4.77	46,374
Total	68.3	60.3	77.8	572	1.62	1.18	9.82	11.0	1.10	3.04	4.14	—	166,487	166,487	7.68	7.96	17.2	169,069
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	9.97	8.87	10.8	80.9	0.22	0.16	1.30	1.45	0.15	0.40	0.55	—	20,206	20,206	0.97	0.98	34.4	20,558
Junior High School	1.73	1.46	2.64	19.8	0.06	0.04	0.35	0.40	0.04	0.11	0.15	—	5,463	5,463	0.21	0.25	9.40	5,551
Total	11.7	10.3	13.4	101	0.28	0.20	1.65	1.85	0.19	0.51	0.70	—	25,668	25,668	1.19	1.23	43.8	26,109

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	10,685	10,685	1.01	0.12	—	10,746
Junior High School	—	—	—	—	—	—	—	—	—	—	—	—	874	874	0.08	0.01	—	879
Total	—	—	—	—	—	—	—	—	—	—	—	—	11,559	11,559	1.09	0.13	—	11,626
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	10,685	10,685	1.01	0.12	—	10,746
Junior High School	—	—	—	—	—	—	—	—	—	—	—	—	874	874	0.08	0.01	—	879
Total	—	—	—	—	—	—	—	—	—	—	—	—	11,559	11,559	1.09	0.13	—	11,626
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	1,769	1,769	0.17	0.02	—	1,779
Junior High School	—	—	—	—	—	—	—	—	—	—	—	—	145	145	0.01	< 0.005	—	146
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,914	1,914	0.18	0.02	—	1,925

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	1.36	0.68	11.6	4.94	0.07	0.94	—	0.94	0.94	—	0.94	—	14,741	14,741	1.30	0.03	—	14,782
Junior High School	0.10	0.05	0.91	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,088	1,088	0.10	< 0.005	—	1,091
Total	1.46	0.73	12.5	5.71	0.08	1.01	—	1.01	1.01	—	1.01	—	15,829	15,829	1.40	0.03	—	15,873
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Single Family Housing	1.36	0.68	11.6	4.94	0.07	0.94	—	0.94	0.94	—	0.94	—	14,741	14,741	1.30	0.03	—	14,782
Junior High School	0.10	0.05	0.91	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,088	1,088	0.10	< 0.005	—	1,091
Total	1.46	0.73	12.5	5.71	0.08	1.01	—	1.01	1.01	—	1.01	—	15,829	15,829	1.40	0.03	—	15,873
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.25	0.12	2.12	0.90	0.01	0.17	—	0.17	0.17	—	0.17	—	2,441	2,441	0.22	< 0.005	—	2,447
Junior High School	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	180	180	0.02	< 0.005	—	181
Total	0.27	0.13	2.29	1.04	0.01	0.18	—	0.18	0.18	—	0.18	—	2,621	2,621	0.23	< 0.005	—	2,628

### 4.3. Area Emissions by Source

#### 4.3.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	2.57	1.28	21.9	9.34	0.14	1.77	—	1.77	1.77	—	1.77	0.00	27,857	27,857	0.52	0.05	—	27,886
Consumer Products	—	64.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	5.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape Equipme	9.00	8.50	0.87	89.4	< 0.005	0.04	—	0.04	0.05	—	0.05	—	248	248	0.01	0.02	—	255
Total	11.6	79.4	22.8	98.7	0.14	1.81	—	1.81	1.83	—	1.83	0.00	28,105	28,105	0.53	0.08	—	28,141
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	2.57	1.28	21.9	9.34	0.14	1.77	—	1.77	1.77	—	1.77	0.00	27,857	27,857	0.52	0.05	—	27,886
Consumer Products	—	64.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	5.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	2.57	70.9	21.9	9.34	0.14	1.77	—	1.77	1.77	—	1.77	0.00	27,857	27,857	0.52	0.05	—	27,886
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.03	0.02	0.27	0.12	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	316	316	0.01	< 0.005	—	316
Consumer Products	—	11.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.96	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.12	1.06	0.11	11.2	< 0.005	< 0.005	—	< 0.005	0.01	—	0.01	—	28.1	28.1	< 0.005	< 0.005	—	28.9
Total	1.16	13.8	0.38	11.3	< 0.005	0.03	—	0.03	0.03	—	0.03	0.00	344	344	0.01	< 0.005	—	345

#### 4.4. Water Emissions by Land Use

##### 4.4.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)



Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	117	869	986	12.1	0.30	—	1,378
Junior High School	—	—	—	—	—	—	—	—	—	—	—	5.57	97.7	103	0.58	0.01	—	122
Total	—	—	—	—	—	—	—	—	—	—	—	123	967	1,090	12.7	0.31	—	1,500
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	117	869	986	12.1	0.30	—	1,378
Junior High School	—	—	—	—	—	—	—	—	—	—	—	5.57	97.7	103	0.58	0.01	—	122
Total	—	—	—	—	—	—	—	—	—	—	—	123	967	1,090	12.7	0.31	—	1,500
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	19.4	144	163	2.01	0.05	—	228
Junior High School	—	—	—	—	—	—	—	—	—	—	—	0.92	16.2	17.1	0.10	< 0.005	—	20.2
Total	—	—	—	—	—	—	—	—	—	—	—	20.4	160	180	2.10	0.05	—	248

#### 4.5. Waste Emissions by Land Use

##### 4.5.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	231	0.00	231	23.1	0.00	—	809
Junior High School	—	—	—	—	—	—	—	—	—	—	—	118	0.00	118	11.8	0.00	—	413
Total	—	—	—	—	—	—	—	—	—	—	—	349	0.00	349	34.9	0.00	—	1,222
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	231	0.00	231	23.1	0.00	—	809
Junior High School	—	—	—	—	—	—	—	—	—	—	—	118	0.00	118	11.8	0.00	—	413
Total	—	—	—	—	—	—	—	—	—	—	—	349	0.00	349	34.9	0.00	—	1,222
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	38.3	0.00	38.3	3.83	0.00	—	134
Junior High School	—	—	—	—	—	—	—	—	—	—	—	19.5	0.00	19.5	1.95	0.00	—	68.4
Total	—	—	—	—	—	—	—	—	—	—	—	57.8	0.00	57.8	5.78	0.00	—	202

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	20.5	20.5
Junior High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.54	0.54
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.1	21.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	20.5	20.5
Junior High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.54	0.54
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.1	21.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.40	3.40
Junior High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.09	0.09
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.49	3.49

### 4.7. Offroad Emissions By Equipment Type

#### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

### 4.8. Stationary Emissions By Equipment Type

#### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e	
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e	
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Single Family Housing	12,524	12,524	12,524	4,571,406	151,533	151,533	151,533	55,309,441
Junior High School	2,280	0.00	0.00	594,429	57,969	0.00	0.00	15,113,346

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Single Family Housing	—
Wood Fireplaces	0
Gas Fireplaces	1323
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	147
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0



## 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
5804662.5	1,934,888	211,611	70,537	—

## 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

## 5.11. Operational Energy Consumption

## 5.11.1. Unmitigated

## Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Single Family Housing	11,186,144	349	0.0330	0.0040	45,995,882
Junior High School	915,080	349	0.0330	0.0040	3,396,027

## 5.12. Operational Water and Wastewater Consumption

## 5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Single Family Housing	61,271,327	92,844,680
Junior High School	2,909,088	15,545,231

## 5.13. Operational Waste Generation

## 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Single Family Housing	429	0.00
Junior High School	219	0.00

## 5.14. Operational Refrigeration and Air Conditioning Equipment

## 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Junior High School	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Junior High School	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Junior High School	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
Junior High School	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

## 5.15. Operational Off-Road Equipment

## 5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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### 5.16. Stationary Sources

#### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
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#### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
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### 5.17. User Defined

Equipment Type	Fuel Type
—	—

### 5.18. Vegetation

#### 5.18.1. Land Use Change

##### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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#### 5.18.1. Biomass Cover Type

##### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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#### 5.18.2. Sequestration

### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	19.8	annual days of extreme heat
Extreme Precipitation	3.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	6.78	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

### 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A

Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

### 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	1	1	3
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

### 6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	77.1
AQ-PM	93.4
AQ-DPM	57.1
Drinking Water	100.0
Lead Risk Housing	17.5
Pesticides	84.9
Toxic Releases	67.6
Traffic	18.1
Effect Indicators	—
CleanUp Sites	80.3
Groundwater	98.1
Haz Waste Facilities/Generators	86.6
Impaired Water Bodies	87.0
Solid Waste	98.9
Sensitive Population	—
Asthma	16.5
Cardio-vascular	29.1
Low Birth Weights	49.0
Socioeconomic Factor Indicators	—
Education	52.9
Housing	59.3
Linguistic	68.9
Poverty	35.4

Unemployment	36.4
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## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	73.60451687
Employed	6.274862056
Education	—
Bachelor's or higher	64.85307327
High school enrollment	100
Preschool enrollment	66.93186193
Transportation	—
Auto Access	63.41588605
Active commuting	24.5989991
Social	—
2-parent households	66.95752598
Voting	70.69164635
Neighborhood	—
Alcohol availability	97.0101373
Park access	52.77813422
Retail density	10.02181445
Supermarket access	6.557166688
Tree canopy	8.238162453
Housing	—
Homeownership	60.78532016
Housing habitability	61.41408957

Low-inc homeowner severe housing cost burden	71.53856025
Low-inc renter severe housing cost burden	18.38829719
Uncrowded housing	64.30129603
Health Outcomes	—
Insured adults	73.78416528
Arthritis	95.7
Asthma ER Admissions	84.6
High Blood Pressure	97.7
Cancer (excluding skin)	89.7
Asthma	34.7
Coronary Heart Disease	98.7
Chronic Obstructive Pulmonary Disease	94.6
Diagnosed Diabetes	96.0
Life Expectancy at Birth	75.7
Cognitively Disabled	56.3
Physically Disabled	69.8
Heart Attack ER Admissions	68.4
Mental Health Not Good	54.9
Chronic Kidney Disease	97.1
Obesity	68.0
Pedestrian Injuries	19.6
Physical Health Not Good	86.2
Stroke	97.8
Health Risk Behaviors	—
Binge Drinking	28.2
Current Smoker	59.6
No Leisure Time for Physical Activity	76.7



Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	9.0
Elderly	91.7
English Speaking	35.1
Foreign-born	48.1
Outdoor Workers	88.5
Climate Change Adaptive Capacity	—
Impervious Surface Cover	78.1
Traffic Density	21.6
Traffic Access	23.0
Other Indices	—
Hardship	45.2
Other Decision Support	—
2016 Voting	74.7

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	72.0
Healthy Places Index Score for Project Location (b)	55.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health and Equity Evaluation Scorecard not completed.

## 8. User Changes to Default Data

Screen	Justification
Land Use	Acreage adjusted based on Project site plan
Operations: Vehicle Data	Trip rates based on traffic scoping memo
Operations: Hearths	No wood stoves per SCAQMD Rule 445

# 14252 Subarea 29 Ops LST Detailed Report

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## 8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	14252 Subarea 29 Ops LST
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.60
Precipitation (days)	18.8
Location	33.98728247386164, -117.57215978119922
County	San Bernardino-South Coast
City	Ontario
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5260
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Single Family Housing	1,470	Dwelling Unit	131	2,866,500	4,730,260	—	4,866	—
Junior High School	1,200	Student	20.0	141,074	435,600	435,600	—	—



### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	65.8	131	57.0	278	0.49	3.05	8.25	11.3	3.04	1.47	4.51	472	84,054	84,527	53.7	2.57	115	86,752
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	52.6	118	57.5	184	0.47	3.01	8.25	11.3	2.99	1.47	4.46	472	82,250	82,723	54.0	2.62	23.5	84,876
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	53.8	120	36.8	232	0.34	1.37	7.89	9.26	1.37	1.40	2.77	472	55,558	56,030	53.3	2.50	59.9	58,169
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.81	21.9	6.72	42.4	0.06	0.25	1.44	1.69	0.25	0.26	0.51	78.2	9,198	9,276	8.83	0.41	9.91	9,631

### 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	52.7	50.5	21.7	173	0.27	0.22	8.25	8.48	0.21	1.47	1.68	—	27,594	27,594	3.06	2.03	94.0	28,369
Area	11.6	79.4	22.8	98.7	0.14	1.81	—	1.81	1.83	—	1.83	0.00	28,105	28,105	0.53	0.08	—	28,141
Energy	1.46	0.73	12.5	5.71	0.08	1.01	—	1.01	1.01	—	1.01	—	27,388	27,388	2.49	0.16	—	27,499
Water	—	—	—	—	—	—	—	—	—	—	—	123	967	1,090	12.7	0.31	—	1,500
Waste	—	—	—	—	—	—	—	—	—	—	—	349	0.00	349	34.9	0.00	—	1,222
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.1	21.1
Total	65.8	131	57.0	278	0.49	3.05	8.25	11.3	3.04	1.47	4.51	472	84,054	84,527	53.7	2.57	115	86,752
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	48.6	46.3	23.1	169	0.25	0.22	8.25	8.48	0.21	1.47	1.68	—	26,039	26,039	3.34	2.09	2.44	26,748
Area	2.57	70.9	21.9	9.34	0.14	1.77	—	1.77	1.77	—	1.77	0.00	27,857	27,857	0.52	0.05	—	27,886
Energy	1.46	0.73	12.5	5.71	0.08	1.01	—	1.01	1.01	—	1.01	—	27,388	27,388	2.49	0.16	—	27,499
Water	—	—	—	—	—	—	—	—	—	—	—	123	967	1,090	12.7	0.31	—	1,500
Waste	—	—	—	—	—	—	—	—	—	—	—	349	0.00	349	34.9	0.00	—	1,222
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.1	21.1
Total	52.6	118	57.5	184	0.47	3.01	8.25	11.3	2.99	1.47	4.46	472	82,250	82,723	54.0	2.62	23.5	84,876
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	46.0	43.7	22.2	165	0.24	0.21	7.89	8.10	0.20	1.40	1.60	—	25,125	25,125	3.19	2.01	38.8	25,842
Area	6.34	75.5	2.10	61.8	0.01	0.15	—	0.15	0.16	—	0.16	0.00	2,078	2,078	0.04	0.02	—	2,085
Energy	1.46	0.73	12.5	5.71	0.08	1.01	—	1.01	1.01	—	1.01	—	27,388	27,388	2.49	0.16	—	27,499
Water	—	—	—	—	—	—	—	—	—	—	—	123	967	1,090	12.7	0.31	—	1,500
Waste	—	—	—	—	—	—	—	—	—	—	—	349	0.00	349	34.9	0.00	—	1,222
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.1	21.1
Total	53.8	120	36.8	232	0.34	1.37	7.89	9.26	1.37	1.40	2.77	472	55,558	56,030	53.3	2.50	59.9	58,169
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	8.39	7.98	4.05	30.0	0.04	0.04	1.44	1.48	0.04	0.26	0.29	—	4,160	4,160	0.53	0.33	6.43	4,279
Area	1.16	13.8	0.38	11.3	< 0.005	0.03	—	0.03	0.03	—	0.03	0.00	344	344	0.01	< 0.005	—	345

Energy	0.27	0.13	2.29	1.04	0.01	0.18	—	0.18	0.18	—	0.18	—	4,534	4,534	0.41	0.03	—	4,553
Water	—	—	—	—	—	—	—	—	—	—	—	20.4	160	180	2.10	0.05	—	248
Waste	—	—	—	—	—	—	—	—	—	—	—	57.8	0.00	57.8	5.78	0.00	—	202
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.49	3.49
Total	9.81	21.9	6.72	42.4	0.06	0.25	1.44	1.69	0.25	0.26	0.51	78.2	9,198	9,276	8.83	0.41	9.91	9,631

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	44.6	42.8	18.3	147	0.23	0.19	1.17	1.36	0.18	0.36	0.54	—	23,345	23,345	2.58	1.71	79.5	24,000
Junior High School	8.12	7.78	3.33	26.7	0.04	0.03	0.21	0.25	0.03	0.07	0.10	—	4,250	4,250	0.47	0.31	14.5	4,369
Total	52.7	50.5	21.7	173	0.27	0.22	1.39	1.61	0.21	0.43	0.64	—	27,594	27,594	3.06	2.03	94.0	28,369
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	41.1	39.1	19.5	143	0.21	0.19	1.17	1.36	0.18	0.36	0.54	—	22,028	22,028	2.83	1.77	2.06	22,629

Junior High School	7.48	7.13	3.55	26.0	0.04	0.03	0.21	0.25	0.03	0.07	0.10	—	4,010	4,010	0.51	0.32	0.38	4,119
Total	48.6	46.3	23.1	169	0.25	0.22	1.39	1.61	0.21	0.43	0.64	—	26,039	26,039	3.34	2.09	2.44	26,748
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	7.42	7.06	3.58	26.6	0.04	0.03	0.21	0.25	0.03	0.07	0.10	—	3,681	3,681	0.47	0.29	5.69	3,786
Junior High School	0.97	0.92	0.47	3.46	0.01	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	479	479	0.06	0.04	0.74	492
Total	8.39	7.98	4.05	30.0	0.04	0.04	0.24	0.28	0.04	0.07	0.11	—	4,160	4,160	0.53	0.33	6.43	4,279

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	10,685	10,685	1.01	0.12	—	10,746
Junior High School	—	—	—	—	—	—	—	—	—	—	—	—	874	874	0.08	0.01	—	879
Total	—	—	—	—	—	—	—	—	—	—	—	—	11,559	11,559	1.09	0.13	—	11,626
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	10,685	10,685	1.01	0.12	—	10,746
Junior High School	—	—	—	—	—	—	—	—	—	—	—	—	874	874	0.08	0.01	—	879
Total	—	—	—	—	—	—	—	—	—	—	—	—	11,559	11,559	1.09	0.13	—	11,626
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	1,769	1,769	0.17	0.02	—	1,779
Junior High School	—	—	—	—	—	—	—	—	—	—	—	—	145	145	0.01	< 0.005	—	146
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,914	1,914	0.18	0.02	—	1,925

#### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	1.36	0.68	11.6	4.94	0.07	0.94	—	0.94	0.94	—	0.94	—	14,741	14,741	1.30	0.03	—	14,782
Junior High School	0.10	0.05	0.91	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,088	1,088	0.10	< 0.005	—	1,091
Total	1.46	0.73	12.5	5.71	0.08	1.01	—	1.01	1.01	—	1.01	—	15,829	15,829	1.40	0.03	—	15,873
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Single Family Housing	1.36	0.68	11.6	4.94	0.07	0.94	—	0.94	0.94	—	0.94	—	14,741	14,741	1.30	0.03	—	14,782
Junior High School	0.10	0.05	0.91	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,088	1,088	0.10	< 0.005	—	1,091
Total	1.46	0.73	12.5	5.71	0.08	1.01	—	1.01	1.01	—	1.01	—	15,829	15,829	1.40	0.03	—	15,873
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.25	0.12	2.12	0.90	0.01	0.17	—	0.17	0.17	—	0.17	—	2,441	2,441	0.22	< 0.005	—	2,447
Junior High School	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	180	180	0.02	< 0.005	—	181
Total	0.27	0.13	2.29	1.04	0.01	0.18	—	0.18	0.18	—	0.18	—	2,621	2,621	0.23	< 0.005	—	2,628

### 4.3. Area Emissions by Source

#### 4.3.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	2.57	1.28	21.9	9.34	0.14	1.77	—	1.77	1.77	—	1.77	0.00	27,857	27,857	0.52	0.05	—	27,886
Consumer Products	—	64.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	5.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape Equipme	9.00	8.50	0.87	89.4	< 0.005	0.04	—	0.04	0.05	—	0.05	—	248	248	0.01	0.02	—	255
Total	11.6	79.4	22.8	98.7	0.14	1.81	—	1.81	1.83	—	1.83	0.00	28,105	28,105	0.53	0.08	—	28,141
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	2.57	1.28	21.9	9.34	0.14	1.77	—	1.77	1.77	—	1.77	0.00	27,857	27,857	0.52	0.05	—	27,886
Consumer Products	—	64.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	5.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	2.57	70.9	21.9	9.34	0.14	1.77	—	1.77	1.77	—	1.77	0.00	27,857	27,857	0.52	0.05	—	27,886
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.03	0.02	0.27	0.12	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	316	316	0.01	< 0.005	—	316
Consumer Products	—	11.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.96	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.12	1.06	0.11	11.2	< 0.005	< 0.005	—	< 0.005	0.01	—	0.01	—	28.1	28.1	< 0.005	< 0.005	—	28.9
Total	1.16	13.8	0.38	11.3	< 0.005	0.03	—	0.03	0.03	—	0.03	0.00	344	344	0.01	< 0.005	—	345

#### 4.4. Water Emissions by Land Use

##### 4.4.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	117	869	986	12.1	0.30	—	1,378
Junior High School	—	—	—	—	—	—	—	—	—	—	—	5.57	97.7	103	0.58	0.01	—	122
Total	—	—	—	—	—	—	—	—	—	—	—	123	967	1,090	12.7	0.31	—	1,500
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	117	869	986	12.1	0.30	—	1,378
Junior High School	—	—	—	—	—	—	—	—	—	—	—	5.57	97.7	103	0.58	0.01	—	122
Total	—	—	—	—	—	—	—	—	—	—	—	123	967	1,090	12.7	0.31	—	1,500
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	19.4	144	163	2.01	0.05	—	228
Junior High School	—	—	—	—	—	—	—	—	—	—	—	0.92	16.2	17.1	0.10	< 0.005	—	20.2
Total	—	—	—	—	—	—	—	—	—	—	—	20.4	160	180	2.10	0.05	—	248

## 4.5. Waste Emissions by Land Use

### 4.5.2. Unmitigated



## Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	231	0.00	231	23.1	0.00	—	809
Junior High School	—	—	—	—	—	—	—	—	—	—	—	118	0.00	118	11.8	0.00	—	413
Total	—	—	—	—	—	—	—	—	—	—	—	349	0.00	349	34.9	0.00	—	1,222
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	231	0.00	231	23.1	0.00	—	809
Junior High School	—	—	—	—	—	—	—	—	—	—	—	118	0.00	118	11.8	0.00	—	413
Total	—	—	—	—	—	—	—	—	—	—	—	349	0.00	349	34.9	0.00	—	1,222
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	38.3	0.00	38.3	3.83	0.00	—	134
Junior High School	—	—	—	—	—	—	—	—	—	—	—	19.5	0.00	19.5	1.95	0.00	—	68.4
Total	—	—	—	—	—	—	—	—	—	—	—	57.8	0.00	57.8	5.78	0.00	—	202

## 4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	20.5	20.5
Junior High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.54	0.54
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.1	21.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	20.5	20.5
Junior High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.54	0.54
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.1	21.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.40	3.40
Junior High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.09	0.09
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.49	3.49

## 4.7. Offroad Emissions By Equipment Type

### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 4.8. Stationary Emissions By Equipment Type

### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Single Family Housing	12,524	12,524	12,524	4,571,406	25,049	25,049	25,049	9,142,812
Junior High School	2,280	0.00	0.00	594,429	4,560	0.00	0.00	1,188,857

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Single Family Housing	—
Wood Fireplaces	0
Gas Fireplaces	1323
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	147
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

## 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
5804662.5	1,934,888	211,611	70,537	—

## 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

## 5.11. Operational Energy Consumption

## 5.11.1. Unmitigated

## Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Single Family Housing	11,186,144	349	0.0330	0.0040	45,995,882
Junior High School	915,080	349	0.0330	0.0040	3,396,027

## 5.12. Operational Water and Wastewater Consumption

## 5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Single Family Housing	61,271,327	92,844,680
Junior High School	2,909,088	15,545,231

## 5.13. Operational Waste Generation



## 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Single Family Housing	429	0.00
Junior High School	219	0.00

## 5.14. Operational Refrigeration and Air Conditioning Equipment

## 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Junior High School	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Junior High School	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Junior High School	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
Junior High School	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

## 5.15. Operational Off-Road Equipment

## 5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
—	—

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

### 5.18.2. Sequestration

### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	19.8	annual days of extreme heat
Extreme Precipitation	3.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	6.78	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

### 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A

Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

### 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	1	1	3
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

### 6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	77.1
AQ-PM	93.4
AQ-DPM	57.1
Drinking Water	100.0
Lead Risk Housing	17.5
Pesticides	84.9
Toxic Releases	67.6
Traffic	18.1
Effect Indicators	—
CleanUp Sites	80.3
Groundwater	98.1
Haz Waste Facilities/Generators	86.6
Impaired Water Bodies	87.0
Solid Waste	98.9
Sensitive Population	—
Asthma	16.5
Cardio-vascular	29.1
Low Birth Weights	49.0
Socioeconomic Factor Indicators	—
Education	52.9
Housing	59.3
Linguistic	68.9
Poverty	35.4

Unemployment	36.4
--------------	------

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	73.60451687
Employed	6.274862056
Education	—
Bachelor's or higher	64.85307327
High school enrollment	100
Preschool enrollment	66.93186193
Transportation	—
Auto Access	63.41588605
Active commuting	24.5989991
Social	—
2-parent households	66.95752598
Voting	70.69164635
Neighborhood	—
Alcohol availability	97.0101373
Park access	52.77813422
Retail density	10.02181445
Supermarket access	6.557166688
Tree canopy	8.238162453
Housing	—
Homeownership	60.78532016
Housing habitability	61.41408957

Low-inc homeowner severe housing cost burden	71.53856025
Low-inc renter severe housing cost burden	18.38829719
Uncrowded housing	64.30129603
Health Outcomes	—
Insured adults	73.78416528
Arthritis	95.7
Asthma ER Admissions	84.6
High Blood Pressure	97.7
Cancer (excluding skin)	89.7
Asthma	34.7
Coronary Heart Disease	98.7
Chronic Obstructive Pulmonary Disease	94.6
Diagnosed Diabetes	96.0
Life Expectancy at Birth	75.7
Cognitively Disabled	56.3
Physically Disabled	69.8
Heart Attack ER Admissions	68.4
Mental Health Not Good	54.9
Chronic Kidney Disease	97.1
Obesity	68.0
Pedestrian Injuries	19.6
Physical Health Not Good	86.2
Stroke	97.8
Health Risk Behaviors	—
Binge Drinking	28.2
Current Smoker	59.6
No Leisure Time for Physical Activity	76.7

Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	9.0
Elderly	91.7
English Speaking	35.1
Foreign-born	48.1
Outdoor Workers	88.5
Climate Change Adaptive Capacity	—
Impervious Surface Cover	78.1
Traffic Density	21.6
Traffic Access	23.0
Other Indices	—
Hardship	45.2
Other Decision Support	—
2016 Voting	74.7

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	72.0
Healthy Places Index Score for Project Location (b)	55.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.



## 7.4. Health & Equity Measures

No Health & Equity Measures selected.

## 7.5. Evaluation Scorecard

Health and Equity Evaluation Scorecard not completed.

## 8. User Changes to Default Data

Screen	Justification
Land Use	Acreage adjusted based on Project site plan
Operations: Vehicle Data	Trip rates based on traffic scoping memo
Operations: Hearths	No wood stoves per SCAQMD Rule 445

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**APPENDIX 3.3:**  
**SCAQMD AMICUS BRIEF**

**S219783**

**IN THE SUPREME COURT OF CALIFORNIA**

---

SIERRA CLUB, REVIVE THE SAN JOAQUIN, and  
LEAGUE OF WOMEN VOTERS OF FRESNO,

Plaintiffs and Appellants,

v.

COUNTY OF FRESNO,

Defendant and Respondent,

and,

FRIANT RANCH, L.P.,

Real Party in Interest and Respondent.

SUPREME COURT  
FILED

APR 13 2015

Frank A. McGuire Clerk  
Deputy

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After a Published Decision by the Court of Appeal, filed May 27, 2014  
Fifth Appellate District Case No. F066798

Appeal from the Superior Court of California, County of Fresno  
Case No. 11CECG00726  
Honorable Rosendo A. Pena, Jr.

---

**APPLICATION OF THE SOUTH COAST AIR QUALITY  
MANAGEMENT DISTRICT FOR LEAVE TO FILE  
BRIEF OF *AMICUS CURIAE* IN SUPPORT OF NEITHER PARTY  
AND [*PROPOSED*] BRIEF OF *AMICUS CURIAE***

---

Kurt R. Wiese, General Counsel (SBN 127251)  
\*Barbara Baird, Chief Deputy Counsel (SBN 81507)  
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT  
21865 Copley Drive, Diamond Bar, CA 91765  
Telephone: 909-396-2302; Facsimile: 909-396-2961  
Email: bbaird@aqmd.gov  
Counsel for [Proposed] Amicus Curiae,  
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

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**CLERK SUPREME COURT**

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**TO THE HONORABLE CHIEF JUSTICE AND JUSTICES OF THE  
SUPREME COURT:**

**APPLICATION FOR LEAVE TO FILE *AMICUS CURIAE* BRIEF**

Pursuant to Rule 8.520(f) of the California Rules of Court, the South Coast Air Quality Management District (SCAQMD) respectfully requests leave to file the attached *amicus curiae* brief. Because SCAQMD's position differs from that of either party, we request leave to submit this *amicus* brief in support of neither party.

**HOW THIS BRIEF WILL ASSIST THE COURT**

SCAQMD's proposed *amicus* brief takes a position on two of the issues in this case. In both instances, its position differs from that of either party. The issues are:

- 1) Does the California Environmental Quality Act (CEQA) require an environmental impact report (EIR) to correlate a project's air pollution emissions with specific levels of health impacts?
- 2) What is the proper standard of review for determining whether an EIR provides sufficient information on the health impacts caused by a project's emission of air pollutants?

This brief will assist the Court by discussing the practical realities of correlating identified air quality impacts with specific health outcomes. In short, CEQA requires agencies to provide detailed information about a project's air quality impacts that is sufficient for the public and decisionmakers to adequately evaluate the project and meaningfully understand its impacts. However, the level of analysis is governed by a rule of reason; CEQA only requires agencies to conduct analysis if it is reasonably feasible to do so.

With regard to health-related air quality impacts, an analysis that correlates a project's air pollution emissions with specific levels of health impacts will be feasible in some cases but not others. Whether it is feasible depends on a variety of factors, including the nature of the project and the nature of the analysis under consideration. The feasibility of analysis may also change over time as air districts and others develop new tools for measuring projects' air quality related health impacts. Because SCAQMD has among the most sophisticated air quality modeling and health impact evaluation capability of any of the air districts in the State, it is uniquely situated to express an opinion on the extent to which the Court should hold that CEQA requires lead agencies to correlate air quality impacts with specific health outcomes.

SCAQMD can also offer a unique perspective on the question of the appropriate standard of review. SCAQMD submits that the proper standard of review for determining whether an EIR is sufficient as an informational document is more nuanced than argued by either party. In our view, this is a mixed question of fact and law. It includes determining whether additional analysis is feasible, which is primarily a factual question that should be reviewed under the substantial evidence standard. However, it also involves determining whether the omission of a particular analysis renders an EIR insufficient to serve CEQA's purpose as a meaningful, informational document. If a lead agency has not determined that a requested analysis is infeasible, it is the court's role to determine whether the EIR nevertheless meets CEQA's purposes, and courts should not defer to the lead agency's conclusions regarding the legal sufficiency of an EIR's analysis. The ultimate question of whether an EIR's analysis is "sufficient" to serve CEQA's informational purposes is predominately a question of law that courts should review *de novo*.

This brief will explain the rationale for these arguments and may assist the Court in reaching a conclusion that accords proper respect to a lead agency's factual conclusions while maintaining judicial authority over the ultimate question of what level of analysis CEQA requires.

#### **STATEMENT OF INTEREST OF *AMICUS CURIAE***

The SCAQMD is the regional agency primarily responsible for air pollution control in the South Coast Air Basin, which consists of all of Orange County and the non-desert portions of the Los Angeles, Riverside, and San Bernardino Counties. (Health & Saf. Code § 40410; Cal. Code Regs., tit. 17, § 60104.) The SCAQMD participates in the CEQA process in several ways. Sometimes it acts as a lead agency that prepares CEQA documents for projects. Other times it acts as a responsible agency when it has permit authority over some part of a project that is undergoing CEQA review by a different lead agency. Finally, SCAQMD also acts as a commenting agency for CEQA documents that it receives because it is a public agency with jurisdiction by law over natural resources affected by the project.

In all of these capacities, SCAQMD will be affected by the decision in this case. SCAQMD sometimes submits comments requesting that a lead agency perform an additional type of air quality or health impacts analysis. On the other hand, SCAQMD sometimes determines that a particular type of health impact analysis is not feasible or would not produce reliable and informative results. Thus, SCAQMD will be affected by the Court's resolution of the extent to which CEQA requires EIRs to correlate emissions and health impacts, and its resolution of the proper standard of review.

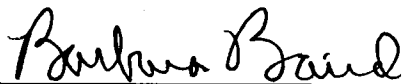
**CERTIFICATION REGARDING AUTHORSHIP AND FUNDING**

No party or counsel in the pending case authored the proposed amicus curiae brief in whole or in part, or made any monetary contribution intended to fund the preparation or submission of the brief. No person or entity other than the proposed *Amicus Curiae* made any monetary contribution intended to fund the preparation or submission of the brief.

Respectfully submitted,

DATED: April 3, 2015

SOUTH COAST AIR QUALITY  
MANAGEMENT DISTRICT  
KURT R. WIESE, GENERAL COUNSEL  
BARBARA BAIRD, CHIEF DEPUTY COUNSEL

By:   
Barbara Baird

*Attorneys for [proposed] Amicus Curiae*  
*SOUTH COAST AIR QUALITY*  
*MANAGEMENT DISTRICT*

## BRIEF OF AMICUS CURIAE

### SUMMARY OF ARGUMENT

The South Coast Air Quality Management District (SCAQMD) submits that this Court should not try to establish a hard-and-fast rule concerning whether lead agencies are required to correlate emissions of air pollutants with specific health consequences in their environmental impact reports (EIR). The level of detail required in EIRs is governed by a few, core CEQA (California Environmental Quality Act) principles. As this Court has stated, “[a]n EIR must include detail sufficient to enable those who did not participate in its preparation to understand and to consider meaningfully the issues raised by the proposed project.” (*Laurel Heights Improvement Assn. v. Regents of the Univ of Cal.* (1988) 47 Cal.3d 376, 405 [*“Laurel Heights I”*]) Accordingly, “an agency must use its best efforts to find out and disclose all that it reasonably can.” (*Vineyard Area Citizens for Responsible Growth, Inc. v. City of Rancho Cordova* (2007) 40 Cal.4th 412, 428 (quoting CEQA Guidelines § 15144)<sup>1</sup>). However, “[a]nalysis of environmental effects need not be exhaustive, but will be judged in light of what is reasonably feasible.” (*Association of Irrigated Residents v. County of Madera* (2003) 107 Cal.App.4th 1383, 1390; CEQA Guidelines §§ 15151, 15204(a).)

With regard to analysis of air quality related health impacts, EIRs must generally quantify a project’s pollutant emissions, but in some cases it is not feasible to correlate these emissions to specific, quantifiable health impacts (e.g., premature mortality; hospital admissions). In such cases, a general description of the adverse health impacts resulting from the pollutants at issue may be sufficient. In other cases, due to the magnitude

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<sup>1</sup> The CEQA Guidelines are found at Cal. Code Regs., tit. 14 §§ 15000, *et seq.*

or nature of the pollution emissions, as well as the specificity of the project involved, it may be feasible to quantify health impacts. Or there may be a less exacting, but still meaningful analysis of health impacts that can feasibly be performed. In these instances, agencies should disclose those impacts.

SCAQMD also submits that whether or not an EIR complies with CEQA's informational mandates by providing sufficient, feasible analysis is a mixed question of fact and law. Pertinent here, the question of whether an EIR's discussion of health impacts from air pollution is sufficient to allow the public to understand and consider meaningfully the issues involves two inquiries: (1) Is it feasible to provide the information or analysis that a commenter is requesting or a petitioner is arguing should be required?; and (2) Even if it is feasible, is the agency relying on other policy or legal considerations to justify not preparing the requested analysis? The first question of whether an analysis is feasible is primarily a question of fact that should be judged by the substantial evidence standard. The second inquiry involves evaluating CEQA's information disclosure purposes against the asserted reasons to not perform the requested analysis. For example, an agency might believe that its EIR meets CEQA's informational disclosure standards even without a particular analysis, and therefore choose not to conduct that analysis. SCAQMD submits that this is more of a legal question, which should be reviewed de novo as a question of law.

## **ARGUMENT**

### **I. RELEVANT FACTUAL AND LEGAL FRAMEWORK.**

#### **A. Air Quality Regulatory Background**

The South Coast Air Quality Management District (SCAQMD) is one of the local and regional air pollution control districts and air quality

management districts in California. The SCAQMD is the regional air pollution agency for the South Coast Air Basin, which consists of all of Orange County and the non-desert portions of Los Angeles, Riverside, and San Bernardino Counties. (Health & Saf. Code § 40410, 17 Cal. Code Reg. § 60104.) The SCAQMD also includes the Coachella Valley in Riverside County (Palm Springs area to the Salton Sea). (SCAQMD, *Final 2012 AQMP (Feb. 2013)*, <http://www.aqmd.gov/home/library/clean-air-plans/air-quality-mgt-plan/final-2012-air-quality-management-plan>; then follow “chapter 7” hyperlink; pp 7-1, 7-3 (last visited Apr. 1, 2015).) The SCAQMD's jurisdiction includes over 16 million residents and has the worst or nearly the worst air pollution levels in the country for ozone and fine particulate matter. (SCAQMD, *Final 2012 AQMP (Feb. 2013)*, <http://www.aqmd.gov/home/library/clean-air-plans/air-quality-mgt-plan/final-2012-air-quality-management-plan>; then follow “Executive Summary” hyperlink p. ES-1 (last visited Apr. 1, 2015).)

Under California law, the local and regional districts are primarily responsible for controlling air pollution from all sources except motor vehicles. (Health & Saf. Code § 40000.) The California Air Resources Board (CARB), part of the California Environmental Protection Agency, is primarily responsible for controlling pollution from motor vehicles. (*Id.*) The air districts must adopt rules to achieve and maintain the state and federal ambient air quality standards within their jurisdictions. (Health & Saf. Code § 40001.)

The federal Clean Air Act (CAA) requires the United States Environmental Protection Agency (EPA) to identify pollutants that are widely distributed and pose a threat to human health, developing a so-called “criteria” document. (42 U.S.C. § 7408; CAA § 108.) These pollutants are frequently called “criteria pollutants.” EPA must then establish “national ambient air quality standards” at levels “requisite to protect public health”,



allowing “an adequate margin of safety.” (42 U.S.C. § 7409; CAA § 109.) EPA has set standards for six identified pollutants: ozone, nitrogen dioxide, sulfur dioxide, carbon monoxide, particulate matter (PM), and lead. (U.S. EPA, National Ambient Air Quality Standards (NAAQS), <http://www.epa.gov/air/criteria.html> (last updated Oct. 21, 2014).)<sup>2</sup>

Under the Clean Air Act, EPA sets emission standards for motor vehicles and “nonroad engines” (mobile farm and construction equipment, marine vessels, locomotives, aircraft, etc.). (42 U.S.C. §§ 7521, 7547; CAA §§ 202, 213.) California is the only state allowed to establish emission standards for motor vehicles and most nonroad sources; however, it may only do so with EPA's approval. (42 U.S.C. §§ 7543(b), 7543(e); CAA §§ 209(b), 209(c).) Sources such as manufacturing facilities, power plants and refineries that are not mobile are often referred to as “stationary sources.” The Clean Air Act charges state and local agencies with the primary responsibility to attain the national ambient air quality standards. (42 U.S.C. § 7401(a)(3); CAA § 101(a)(3).) Each state must adopt and implement a plan including enforceable measures to achieve and maintain the national ambient air quality standards. (42 U.S.C. § 7410; CAA § 110.) The SCAQMD and CARB jointly prepare portion of the plan for the South Coast Air Basin and submit it for approval by EPA. (Health & Saf. Code §§ 40460, et seq.)

The Clean Air Act also requires state and local agencies to adopt a permit program requiring, among other things, that new or modified “major” stationary sources use technology to achieve the “lowest achievable emission rate,” and to control minor stationary sources as

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<sup>2</sup> Particulate matter (PM) is further divided into two categories: fine particulate or PM<sub>2.5</sub> (particles with a diameter of less than or equal to 2.5 microns) and coarse particulate (PM<sub>10</sub>) (particles with a diameter of 10 microns or less). (U.S. EPA, Particulate Matter (PM), <http://www.epa.gov/airquality/particulatepollution/> (last visited Apr. 1, 2015).)

needed to help attain the standards. (42 U.S.C. §§ 7502(c)(5), 7503(a)(2), 7410(a)(2)(C); CAA §§ 172(c)(5), 173(a)(2), 110(a)(2)(C).) The air districts implement these permit programs in California. (Health & Saf. Code §§ 42300, et seq.)

The Clean Air Act also sets out a regulatory structure for over 100 so-called “hazardous air pollutants” calling for EPA to establish “maximum achievable control technology” (MACT) for sources of these pollutants. (42 U.S.C. § 7412(d)(2); CAA § 112(d)(2).) California refers to these pollutants as “toxic air contaminants” (TACs) which are subject to two state-required programs. The first program requires “air toxics control measures” for specific categories of sources. (Health & Saf. Code § 39666.) The other program requires larger stationary sources and sources identified by air districts to prepare “health risk assessments” for impacts of toxic air contaminants. (Health & Saf. Code §§ 44320(b), 44322, 44360.) If the health risk exceeds levels identified by the district as “significant,” the facility must implement a “risk reduction plan” to bring its risk levels below “significant” levels. Air districts may adopt additional more stringent requirements than those required by state law, including requirements for toxic air contaminants. (Health & Saf. Code § 41508; *Western Oil & Gas Assn. v. Monterey Bay Unified APCD* (1989) 49 Cal.3d 408, 414.) For example, SCAQMD has adopted a rule requiring new or modified sources to keep their risks below specified levels and use best available control technology (BACT) for toxics. (SCAQMD, *Rule 1401-New Source Review of Toxic Air Contaminants*, <http://www.aqmd.gov/home/regulations/rules/scaqmd-rule-book/regulation-xiv>; then follow “Rule 1401” hyperlink (last visited Apr. 1, 2015).)

## **B. The SCAQMD's Role Under CEQA**

The California Environmental Quality Act (CEQA) requires public agencies to perform an environmental review and appropriate analysis for projects that they implement or approve. (Pub. Resources Code § 21080(a).) The agency with primary approval authority for a particular project is generally the “lead agency” that prepares the appropriate CEQA document. (CEQA Guidelines §§ 15050, 15051.) Other agencies having a subsequent approval authority over all or part of a project are called “responsible” agencies that must determine whether the CEQA document is adequate for their use. (CEQA Guidelines §§ 15096(c), 15381.) Lead agencies must also consult with and circulate their environmental impact reports to “trustee agencies” and agencies “with jurisdiction by law” including “authority over resources which may be affected by the project.” (Pub. Resources Code §§ 21104(a), 21153; CEQA Guidelines §§ 15086(a)(3), 15073(c).) The SCAQMD has a role in all these aspects of CEQA.

Fulfilling its responsibilities to implement its air quality plan and adopt rules to attain the national ambient air quality standards, SCAQMD adopts a dozen or more rules each year to require pollution reductions from a wide variety of sources. The SCAQMD staff evaluates each rule for any adverse environmental impact and prepares the appropriate CEQA document. Although most rules reduce air emissions, they may have secondary environmental impacts such as use of water or energy or disposal of waste—e.g., spent catalyst from control equipment.<sup>3</sup>

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<sup>3</sup> The SCAQMD's CEQA program for its rules is a “Certified Regulatory Program” under which it prepares a “functionally equivalent” document in lieu of a negative declaration or EIR. (Pub. Resources Code § 21080.5, CEQA Guidelines § 15251(l).)

The SCAQMD also approves a large number of permits every year to construct new, modified, or replacement facilities that emit regulated air pollutants. The majority of these air pollutant sources have already been included in an earlier CEQA evaluation for a larger project, are currently being evaluated by a local government as lead agency, or qualify for an exemption. However, the SCAQMD sometimes acts as lead agency for major projects where the local government does not have a discretionary approval. In such cases, SCAQMD prepares and certifies a negative declaration or environmental impact report (EIR) as appropriate.<sup>4</sup> SCAQMD evaluates perhaps a dozen such permit projects under CEQA each year. SCAQMD is often also a “responsible agency” for many projects since it must issue a permit for part of the projects (e.g., a boiler used to provide heat in a commercial building). For permit projects evaluated by another lead agency under CEQA, SCAQMD has the right to determine that the CEQA document is inadequate for its purposes as a responsible agency, but it may not do so because its permit program already requires all permitted sources to use the best available air pollution control technology. (SCAQMD, *Rule 1303(a)(1) – Requirements*, <http://www.aqmd.gov/home/regulations/rules/scaqmd-rule-book/regulation-xiii>; then follow “Rule 1303” hyperlink (last visited Apr. 1, 2015).)

Finally, SCAQMD receives as many as 60 or more CEQA documents each month (around 500 per year) in its role as commenting agency or an agency with “jurisdiction by law” over air quality—a natural resource affected by the project. (Pub. Resources Code §§ 21104(a), 21153; CEQA Guidelines § 15366(a)(3).) The SCAQMD staff provides comments on as many as 25 or 30 such documents each month.

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<sup>4</sup> The SCAQMD's permit projects are not included in its Certified Regulatory Program, and are evaluated under the traditional local government CEQA analysis. (Pub. Resources Code §§ 21150-21154.)

(SCAQMD Governing Board Agenda, Apr. 3, 2015, Agenda Item 16, Attachment A, <http://www.aqmd.gov/home/library/meeting-agendas-minutes/agenda?title=governing-board-meeting-agenda-april-3-2015>; then follow “16. Lead Agency Projects and Environmental Documents Received by SCAQMD” hyperlink (last visited Apr. 1, 2015).) Of course, SCAQMD focuses its commenting efforts on the more significant projects.

Typically, SCAQMD comments on the adequacy of air quality analysis, appropriateness of assumptions and methodology, and completeness of the recommended air quality mitigation measures. Staff may comment on the need to prepare a health risk assessment detailing the projected cancer and noncancer risks from toxic air contaminants resulting from the project, particularly the impacts of diesel particulate matter, which CARB has identified as a toxic air contaminant based on its carcinogenic effects. (California Air Resources Board, Resolution 98-35, Aug. 27, 1998, <http://www.arb.ca.gov/regact/diesltac/diesltac.htm>; then follow Resolution 98-35 hyperlink (last visited Apr. 1, 2015).) Because SCAQMD already requires new or modified stationary sources of toxic air contaminants to use the best available control technology for toxics and to keep their risks below specified levels, (SCAQMD Rule 1401, *supra*, note 15), the greatest opportunity to further mitigate toxic impacts through the CEQA process is by reducing emissions—particularly diesel emissions—from vehicles.

**II. THIS COURT SHOULD NOT SET A HARD-AND-FAST RULE CONCERNING THE EXTENT TO WHICH AN EIR MUST CORRELATE A PROJECT’S EMISSION OF POLLUTANTS WITH RESULTING HEALTH IMPACTS.**

Numerous cases hold that courts do not review the correctness of an EIR's conclusions but rather its sufficiency as an informative document. (*Laurel Heights 1*, *supra*, 47 Cal.3d at p. 392; *Citizens of Goleta Valley v.*

*Bd. of Supervisors* (1990) 52 Cal.3d 553, 569; *Bakersfield Citizens for Local Control v. City of Bakersfield* (2004) 124 Cal.App.4th 1184, 1197.)

As stated by the Court of Appeal in this case, where an EIR has addressed a topic, but the petitioner claims that the information provided about that topic is insufficient, courts must “draw[] a line that divides *sufficient* discussions from those that are *insufficient*.” (*Sierra Club v. County of Fresno* (2014) 226 Cal.App.4th 704 (superseded by grant of review) 172 Cal.Rptr.3d 271, 290.) The Court of Appeal readily admitted that “[t]he terms themselves – sufficient and insufficient – provide little, if any, guidance as to where the line should be drawn. They are simply labels applied once the court has completed its analysis.” (*Id.*)

The CEQA Guidelines, however, provide guidance regarding what constitutes a sufficient discussion of impacts. Section 15151 states that “the sufficiency of an EIR is to be reviewed in light of what is reasonably feasible.” Case law reflects this: “Analysis of environmental effects need not be exhaustive, but will be judged in light of what was reasonably feasible.” (*Association of Irrigated Residents v. County of Madera, supra*, 107 Cal.App.4th at p. 1390; see also CEQA Guidelines § 15204(a).)

Applying this test, this Court cannot realistically establish a hard-and-fast rule that an analysis correlating air pollution impacts of a project to quantified resulting health impacts is always required, or indeed that it is never required. Simply put, in some cases such an analysis will be “feasible”; in some cases it will not.

For example, air pollution control districts often require a proposed new source of toxic air contaminants to prepare a “health risk assessment” before issuing a permit to construct. District rules often limit the allowable cancer risk the new source may cause to the “maximally exposed individual” (worker and residence exposures). (*See, e.g., SCAQMD Rule 1401(c)(8); 1401(d)(1), supra* note 15.) In order to perform this analysis, it

is necessary to have data regarding the sources and types of air toxic contaminants, location of emission points, velocity of emissions, the meteorology and topography of the area, and the location of receptors (worker and residence). (SCAQMD, *Supplemental Guidelines for Preparing Risk Assessments for the Air Toxics "Hot Spots" Information and Assessment Act (AB2588)*, pp. 11-16; (last visited Apr. 1, 2015) <http://www.aqmd.gov/home/library/documents-support-material>; "Guidelines" hyperlink; AB2588; then follow AB2588 Risk Assessment Guidelines hyperlink.)

Thus, it is feasible to determine the health risk posed by a new gas station locating at an intersection in a mixed use area, where receptor locations are known. On the other hand, it may not be feasible to perform a health risk assessment for airborne toxics that will be emitted by a generic industrial building that was built on "speculation" (i.e., without knowing the future tenant(s)). Even where a health risk assessment can be prepared, however, the resulting maximum health risk value is only a calculation of risk—it does not necessarily mean anyone will contract cancer as a result of the project.

In order to find the "cancer burden" or expected additional cases of cancer resulting from the project, it is also necessary to know the numbers and location of individuals living within the "zone of impact" of the project: i.e., those living in areas where the projected cancer risk from the project exceeds one in a million. (SCAQMD, Health Risk Assessment Summary form, <http://www.aqmd.gov/home/forms>; filter by "AB2588" category; then "Health Risk Assessment" hyperlink (last visited Apr. 1, 2015).) The affected population is divided into bands of those exposed to at least 1 in a million risk, those exposed to at least 10 in a million risk, etc. up to those exposed at the highest levels. (*Id.*) This data allows agencies to calculate an approximate number of additional cancer cases expected from

the project. However, it is not possible to predict which particular individuals will be affected.

For the so-called criteria pollutants<sup>5</sup>, such as ozone, it may be more difficult to quantify health impacts. Ozone is formed in the atmosphere from the chemical reaction of the nitrogen oxides (NO<sub>x</sub>) and volatile organic compounds (VOC) in the presence of sunlight. (U.S. EPA, Ground Level Ozone, <http://www.epa.gov/airquality/ozonepollution/> (last updated Mar. 25, 2015).) It takes time and the influence of meteorological conditions for these reactions to occur, so ozone may be formed at a distance downwind from the sources. (U.S. EPA, *Guideline on Ozone Monitoring Site Selection* (Aug. 1998) EPA-454/R-98-002 § 5.1.2, <http://www.epa.gov/ttnamti1/archive/cpreldoc.html> (last visited Apr. 1, 2015).) NO<sub>x</sub> and VOC are known as “precursors” of ozone.

Scientifically, health effects from ozone are correlated with increases in the ambient level of ozone in the air a person breathes. (U.S. EPA, *Health Effects of Ozone in the General Population*, Figure 9, <http://www.epa.gov/apti/ozonehealth/population.html#levels> (last visited Apr. 1, 2015).) However, it takes a large amount of additional precursor emissions to cause a modeled increase in ambient ozone levels over an entire region. For example, the SCAQMD's 2012 AQMP showed that reducing NO<sub>x</sub> by 432 tons per day (157,680 tons/year) and reducing VOC by 187 tons per day (68,255 tons/year) would reduce ozone levels at the SCAQMD's monitor site with the highest levels by only 9 parts per billion. (South Coast Air Quality Management District, *Final 2012 AQMP (February 2013)*, <http://www.aqmd.gov/home/library/clean-air-plans/air-quality-mgt-plan/final-2012-air-quality-management-plan>; then follow “Appendix V: Modeling & Attainment Demonstrations” hyperlink,

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<sup>5</sup> See discussion of types of pollutants, *supra*, Part I.A.



pp. v-4-2, v-7-4, v-7-24.) SCAQMD staff does not currently know of a way to accurately quantify ozone-related health impacts caused by NO<sub>x</sub> or VOC emissions from relatively small projects.

On the other hand, this type of analysis may be feasible for projects on a regional scale with very high emissions of NO<sub>x</sub> and VOCs, where impacts are regional. For example, in 2011 the SCAQMD performed a health impact analysis in its CEQA document for proposed Rule 1315, which authorized various newly-permitted sources to use offsets from the districts “internal bank” of emission reductions. This CEQA analysis accounted for essentially *all* the increases in emissions due to new or modified sources in the District between 2010 and 2030.<sup>6</sup> The SCAQMD was able to correlate this very large emissions increase (e.g., 6,620 pounds per day NO<sub>x</sub> (1,208 tons per year), 89,180 pounds per day VOC (16,275 tons per year)) to expected health outcomes from ozone and particulate matter (e.g., 20 premature deaths per year and 89,947 school absences in the year 2030 due to ozone).<sup>7</sup> (SCAQMD Governing Board Agenda, February 4, 2011, Agenda Item 26, *Assessment for: Re-adoption of Proposed Rule 1315 – Federal New Source Review Tracking System* (see hyperlink in fn 6) at p. 4.1-35, Table 4.1-29.)

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<sup>6</sup> (SCAQMD Governing Board Agenda, February 4, 2011, Agenda Item 26, Attachment G, *Assessment for: Re-adoption of Proposed Rule 1315 – Federal New Source Review Tracking System, Vol. 1, p.4.0-6*, <http://www.aqmd.gov/home/library/meeting-agendas-minutes/agenda?title=governing-board-meeting-agenda-february-4-2011>; the follow “26. Adopt Proposed Rule 1315 – Federal New Source Review Tracking System” (last visited April 1, 2015).)

<sup>7</sup> The SCAQMD was able to establish the location of future NO<sub>x</sub> and VOC emissions by assuming that new projects would be built in the same locations and proportions as existing stationary sources. This CEQA document was upheld by the Los Angeles County Superior Court in *Natural Res. Def. Council v SCAQMD*, Los Angeles Superior Court No. BS110792).

However, a project emitting only 10 tons per year of NO<sub>x</sub> or VOC is small enough that its regional impact on ambient ozone levels may not be detected in the regional air quality models that are currently used to determine ozone levels. Thus, in this case it would not be feasible to directly correlate project emissions of VOC or NO<sub>x</sub> with specific health impacts from ozone. This is in part because ozone formation is not linearly related to emissions. Ozone impacts vary depending on the location of the emissions, the location of other precursor emissions, meteorology and seasonal impacts, and because ozone is formed some time later and downwind from the actual emission. (EPA Guideline on Ozone Monitoring Site Selection (Aug. 1998) EPA-454/R-98-002, § 5.1.2; <https://www.epa.gov/ttnamti1/archive/cpreldoc.html>; then search “Guideline on Ozone Monitoring Site Selection” click on pdf) (last viewed Apr. 1, 2015).)

SCAQMD has set its CEQA “significance” threshold for NO<sub>x</sub> and VOC at 10 tons per year (expressed as 55 lb/day). (SCAQMD, *Air Quality Analysis Handbook*, <http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook>; then follow “SCAQMD Air Quality Significance Thresholds” hyperlink (last visited Apr. 1, 2015).) This is because the federal Clean Air Act defines a “major” stationary source for “extreme” ozone nonattainment areas such as SCAQMD as one emitting 10 tons/year. (42 U.S.C. §§ 7511a(e), 7511a(f); CAA §§ 182(e), 182(f).) Under the Clean Air Act, such sources are subject to enhanced control requirements (42 U.S.C. §§ 7502(c)(5), 7503; CAA §§ 172(c)(5), 173), so SCAQMD decided this was an appropriate threshold for making a CEQA “significance” finding and requiring feasible mitigation. Essentially, SCAQMD takes the position that a source that emits 10 tons/year of NO<sub>x</sub> or VOC would contribute cumulatively to ozone formation. Therefore, lead agencies that use SCAQMD’s thresholds of significance may determine

that many projects have “significant” air quality impacts and must apply all feasible mitigation measures, yet will not be able to precisely correlate the project to quantifiable health impacts, unless the emissions are sufficiently high to use a regional modeling program.

In the case of particulate matter (PM<sub>2.5</sub>)<sup>8</sup>, another “criteria” pollutant, SCAQMD staff is aware of two possible methods of analysis. SCAQMD used regional modeling to predict expected health impacts from its proposed Rule 1315, as mentioned above. Also, the California Air Resources Board (CARB) has developed a methodology that can predict expected mortality (premature deaths) from large amounts of PM<sub>2.5</sub>. (California Air Resources Board, *Health Impacts Analysis: PM Premature Death Relationship*, [http://www.arb.ca.gov/research/health/pm-mort/pm-mort\\_arch.htm](http://www.arb.ca.gov/research/health/pm-mort/pm-mort_arch.htm) (last reviewed Jan. 19, 2012).) SCAQMD used the CARB methodology to predict impacts from three very large power plants (e.g., 731-1837 lbs/day). (Final Environmental Assessment for Rule 1315, *supra*, pp 4.0-12, 4.1-13, 4.1-37 (e.g., 125 premature deaths in the entire SCAQMD in 2030), 4.1-39 (0.05 to 1.77 annual premature deaths from power plants.) Again, this project involved large amounts of additional PM<sub>2.5</sub> in the District, up to 2.82 tons/day (5,650 lbs/day of PM<sub>2.5</sub>, or, or 1029 tons/year. (*Id.* at table 4.1-4, p. 4.1-10.)

However, the primary author of the CARB methodology has reported that this PM<sub>2.5</sub> health impact methodology is not suited for small projects and may yield unreliable results due to various uncertainties.<sup>9</sup> (SCAQMD, *Final Subsequent Mitigated Negative Declaration for: Warren*

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<sup>8</sup> SCAQMD has not attained the latest annual or 24-hour national ambient air quality standards for “PM<sub>2.5</sub>” or particulate matter less than 2.5 microns in diameter.

<sup>9</sup> Among these uncertainties are the representativeness of the population used in the methodology, and the specific source of PM and the corresponding health impacts. (*Id.* at p. 2-24.)

*E&P, Inc. WTU Central Facility, New Equipment Project* (certified July 19, 2011), <http://www.aqmd.gov/home/library/documents-support-material/lead-agency-permit-projects/permit-project-documents---year-2011>; then follow “Final Subsequent Mitigated Negative Declaration for Warren E&P Inc. WTU Central Facility, New Equipment Project” hyperlink, pp. 2-22, 2-23 (last visited Apr. 1, 2015).) Therefore, when SCAQMD prepared a CEQA document for the expansion of an existing oil production facility, with very small PM<sub>2.5</sub> increases (3.8 lb/day) and a very small affected population, staff elected not to use the CARB methodology for using estimated PM<sub>2.5</sub> emissions to derive a projected premature mortality number and explained why it would be inappropriate to do so. (*Id.* at pp 2-22 to 2-24.) SCAQMD staff concluded that use of this methodology for such a small source could result in unreliable findings and would not provide meaningful information. (*Id.* at pp. 2-23, 2-25.) This CEQA document was not challenged in court.

In the above case, while it may have been technically possible to plug the data into the methodology, the results would not have been reliable or meaningful. SCAQMD believes that an agency should not be required to perform analyses that do not produce reliable or meaningful results. This Court has already held that an agency may decline to use even the “normal” “existing conditions” CEQA baseline where to do so would be misleading or without informational value. (*Neighbors for Smart Rail v. Exposition Metro Line* (2013) 57 Cal.4th 439, 448, 457.) The same should be true for a decision that a particular study or analysis would not provide reliable or meaningful results.<sup>10</sup>

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<sup>10</sup> Whether a particular study would result in “informational value” is a part of deciding whether it is “feasible.” CEQA defines “feasible” as “capable of being accomplished in a successful manner within a reasonable period of time, taking into account economic, environmental, social, and

Therefore, it is not possible to set a hard-and-fast rule on whether a correlation of air quality impacts with specific quantifiable health impacts is required in all cases. Instead, the result turns on whether such an analysis is reasonably feasible in the particular case.<sup>11</sup> Moreover, what is reasonably feasible may change over time as scientists and regulatory agencies continually seek to improve their ability to predict health impacts. For example, CARB staff has been directed by its Governing Board to reassess and improve the methodology for estimating premature deaths. (California Air Resources Board, *Health Impacts Analysis: PM Mortality Relationship*, <http://www.arb.ca.gov/research/health/pm-mort/pm-mort.htm> (last reviewed Dec. 29, 2010).) This factor also counsels against setting any hard-and-fast rule in this case.

### **III. THE QUESTION OF WHETHER AN EIR CONTAINS SUFFICIENT ANALYSIS TO MEET CEQA'S REQUIREMENTS IS A MIXED QUESTION OF FACT AND LAW GOVERNED BY TWO DIFFERENT STANDARDS OF REVIEW.**

#### **A. Standard of Review for Feasibility Determination and Sufficiency as an Informative Document**

A second issue in this case is whether courts should review an EIR's informational sufficiency under the "substantial evidence" test as argued by Friant Ranch or the "independent judgment" test as argued by Sierra Club.

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technological factors." (Pub. Resources Code § 21061.1.) A study cannot be "accomplished in a *successful* manner" if it produces unreliable or misleading results.

<sup>11</sup> In this case, the lead agency did not have an opportunity to determine whether the requested analysis was feasible because the comment was non-specific. Therefore, SCAQMD suggests that this Court, after resolving the legal issues in the case, direct the Court of Appeal to remand the case to the lead agency for a determination of whether the requested analysis is feasible. Because Fresno County, the lead agency, did not seek review in this Court, it seems likely that the County has concluded that at least some level of correlation of air pollution with health impacts is feasible.

As this Court has explained, “a reviewing court must adjust its scrutiny to the nature of the alleged defect, depending on whether the claim is predominantly one of improper procedure or a dispute over the facts.” (*Vineyard Area Citizens v. City of Rancho Cordova, supra*, 40 Cal.4th at 435.) For questions regarding compliance with proper procedure or other legal questions, courts review an agency’s action de novo under the “independent judgment” test. (*Id.*) On the other hand, courts review factual disputes only for substantial evidence, thereby “accord[ing] greater deference to the agency’s substantive factual conclusions.” (*Id.*)

Here, Friant Ranch and Sierra Club agree that the case involves the question of whether an EIR includes sufficient information regarding a project’s impacts. However, they disagree on the proper standard of review for answering this question: Sierra Club contends that courts use the independent judgment standard to determine whether an EIR’s analysis is sufficient to meet CEQA’s informational purposes,<sup>12</sup> while Friant Ranch contends that the substantial evidence standard applies to this question.

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<sup>12</sup> Sierra Club acknowledges that courts use the substantial evidence standard when reviewing predicate factual issues, but argues that courts ultimately decide as a matter of law what CEQA requires. (Answering Brief, pp. 14, 23.)

SCAQMD submits that the issue is more nuanced than either party contends. We submit that, whether a CEQA document includes sufficient analysis to satisfy CEQA's informational mandates is a mixed question of fact and law,<sup>13</sup> containing two levels of inquiry that should be judged by different standards.<sup>14</sup>

The state CEQA Guidelines set forth standards for the adequacy of environmental analysis. Guidelines Section 15151 states:

An EIR should be prepared with a sufficient degree of analysis to provide decision makers with information which enables them to make a decision which intelligently takes account of environmental consequences. An evaluation of the environmental effects of a proposed project need not be exhaustive, but the sufficiency of an EIR is to be reviewed in light of what is reasonably feasible. Disagreement among experts does not make an EIR inadequate, but the EIR should summarize the main points of disagreement among the experts. The courts have looked not for perfection, but for adequacy, completeness, and a good-faith effort at full disclosure.

In this case, the basic question is whether the underlying analysis of air quality impacts made the EIR "sufficient" as an informative document. However, whether the EIR's analysis was sufficient is judged in light of what was reasonably feasible. This represents a mixed question of fact and law that is governed by two different standards of review.

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<sup>13</sup> Friant Ranch actually states that the claim that an EIR lacks sufficient relevant information is, "most properly thought of as raising mixed questions of fact and law." (Opening Brief, p. 27.) However, the remainder of its argument claims that the court should apply the substantial evidence standard of review to all aspects of the issue.

<sup>14</sup> Mixed questions of fact and law issues may implicate predominantly factual subordinate questions that are reviewed under the substantial evidence test even though the ultimate question may be reviewed by the independent judgment test. *Crocker National Bank v. City and County of San Francisco* (1989) 49 Cal.3d 881, 888-889.

SCAQMD submits that an EIR's sufficiency as an informational document is ultimately a legal question that courts should determine using their independent judgment. This Court's language in *Laurel Heights I* supports this position. As this Court explained: "The court does not pass upon the correctness of the EIR's environmental conclusions, but only upon its *sufficiency as an informative document.*" (*Laurel Heights I, supra*, 47 Cal.3d at 392-393) (emphasis added.) As described above, the Court in *Vineyard Area Citizens v. City of Rancho Cordova, supra*, 40 Cal.4th at 431, also used its independent judgment to determine what level of analysis CEQA requires for water supply impacts. The Court did not defer to the lead agency's opinion regarding the law's requirements; rather, it determined for itself what level of analysis was necessary to meet "[t]he law's informational demands." (*Id.* at p. 432.) Further, existing case law also holds that where an agency fails to comply with CEQA's information disclosure requirements, the agency has "failed to proceed in the manner required by law." (*Save Our Peninsula Comm. v. Monterey County Bd. of Supervisors* (2001) 87 Cal.App.4th 99, 118.)

However, whether an EIR satisfies CEQA's requirements depends in part on whether it was reasonably feasible for an agency to conduct additional or more thorough analysis. EIRs must contain "a detailed statement" of a project's impacts (Pub. Res. Code § 21061), and an agency must "use its best efforts to find out and disclose all that it reasonably can." (CEQA Guidelines § 15144.) Nevertheless, "the sufficiency of an EIR is to be reviewed in light of what is reasonably feasible." (CEQA Guidelines § 15151.)

SCAQMD submits that the question of whether additional analysis or a particular study suggested by a commenter is "feasible" is generally a question of fact. Courts have already held that whether a particular alternative is "feasible" is reviewed by the substantial evidence test.



(*Uphold Our Heritage v. Town of Woodside* (2007) 147 Cal.App.4th 587, 598-99; *Center for Biological Diversity v. County of San Bernardino* (2010) 185 Cal.App.4th 866, 883.) Thus, if a lead agency determines that a particular study or analysis is infeasible, that decision should generally be judged by the substantial evidence standard. However, SCAQMD urges this Court to hold that lead agencies must explain the basis of any determination that a particular analysis is infeasible in the EIR itself. An EIR must discuss information, including issues related to the feasibility of particular analyses “in sufficient detail to enable meaningful participation and criticism by the public. ‘[W]hatever is required to be considered in an EIR must be in that formal report; what any official might have known from other writings or oral presentations cannot supply what is lacking in the report.’” (*Laurel Heights I, supra*, 47 Cal.3d at p. 405 (quoting *Santiago County Water District v. County of Orange* (1981) 118 Cal.App.3d 818, 831) (discussing analysis of alternatives).) The evidence on which the determination is based should also be summarized in the EIR itself, with appropriate citations to reference materials if necessary. Otherwise commenting agencies such as SCAQMD would be forced to guess where the lead agency's evidence might be located, thus thwarting effective public participation.

Moreover, if a lead agency determines that a particular study or analysis would not result in reliable or useful information and for that reason is not feasible, that determination should be judged by the substantial evidence test. (See *Neighbors for Smart Rail v. Exposition Metro Line Construction Authority, supra*, 57 Cal.4th 439, 448, 457:

whether “existing conditions” baseline would be misleading or uninformative judged by substantial evidence standard.<sup>15</sup>)

If the lead agency’s determination that a particular analysis or study is not feasible is supported by substantial evidence, then the agency has not violated CEQA’s information disclosure provisions, since it would be infeasible to provide additional information. This Court’s decisions provide precedent for such a result. For example, this Court determined that the issue of whether the EIR should have included a more detailed discussion of future herbicide use was resolved because substantial evidence supported the agency’s finding that “the precise parameters of future herbicide use could not be predicted.” *Ebbetts Pass Forest Watch v. California Dept. of Forestry & Fire Protection* (2008) 43 Cal.4th 936, 955.

Of course, SCAQMD expects that courts will continue to hold lead agencies to their obligations to consult with, and not to ignore or misrepresent, the views of sister agencies having special expertise in the area of air quality. (*Berkeley Keep Jets Over the Bay v. Board of Port Commissioners* (2007) 91 Cal.App.4<sup>th</sup> 1344, 1364 n.11.) In some cases, information provided by such expert agencies may establish that the purported evidence relied on by the lead agency is not in fact “substantial”. (*Id.* at pp. 1369-1371.)

In sum, courts retain ultimate responsibility to determine what CEQA requires. However, the law does not require exhaustive analysis, but only what is reasonably feasible. Agencies deserve deference for their factual determinations regarding what type of analysis is reasonably feasible. On the other hand, if a commenter requests more information, and the lead agency declines to provide it but does *not* determine that the

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<sup>15</sup> The substantial evidence standard recognizes that the courts "have neither the resources nor the scientific expertise" to weigh conflicting evidence on technical issues. (*Laurel Heights I, supra*, 47 Cal.3d 376, 393.)

requested study or analysis would be infeasible, misleading or uninformative, the question becomes whether the omission of that analysis renders the EIR inadequate to satisfy CEQA’s informational purposes. (*Id.* at pp. 1370-71.) Again, this is predominantly a question of law and should be judged by the de novo or independent judgment standard of review. Of course, this Court has recognized that a “project opponent or reviewing court can always imagine some additional study or analysis that might provide helpful information. It is not for them to design the EIR. That further study...might be helpful does not make it necessary.” (*Laurel Heights I, supra*, 47 Cal.3d 376, 415 – see also CEQA Guidelines § 15204(a) [CEQA “does not require a lead agency to conduct every test. . . recommended or demanded by commenters.”].) Courts, then, must adjudicate whether an omission of particular information renders an EIR inadequate to serve CEQA’s informational purposes.<sup>16</sup>

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<sup>16</sup> We recognize that there is case law stating that the substantial evidence standard applies to “challenges to the scope of an EIR’s analysis of a topic” as well as the methodology used and the accuracy of the data relied on in the document “because these types of challenges involve factual questions.” (*Bakersfield Citizens for Local Control v. City of Bakersfield, supra*, 124 Cal.App.4<sup>th</sup> 1184, 1198, and cases relied on therein.) However, we interpret this language to refer to situations where the question of the scope of the analysis really is factual—that is, where it involves whether further analysis is feasible, as discussed above. This interpretation is supported by the fact that the *Bakersfield* court expressly rejected an argument that a claimed “omission of information from the EIR should be treated as inquiries whether there is substantial evidence supporting the decision approving the project.” *Bakersfield, supra*, 124 Cal.App.4<sup>th</sup> at p. 1208. And the *Bakersfield* court ultimately decided that the lead agency must analyze the connection between the identified air pollution impacts and resulting health impacts, even though the EIR already included some discussion of air-pollution-related respiratory illnesses. *Bakersfield, supra*, 124 Cal.App.4<sup>th</sup> at p. 1220. Therefore, the court must not have interpreted this question as one of the “scope of the analysis” to be judged by the substantial evidence standard.

**B. Friant Ranch's Rationale for Rejecting the Independent Judgment Standard of Review is Unsupported by Case Law.**

In its brief, Friant Ranch makes a distinction between cases where a required CEQA topic is not discussed at all (to be reviewed by independent judgment as a failure to proceed in the manner required by law) and cases where a topic is discussed, but the commenter claims the information provided is insufficient (to be judged by the substantial evidence test). (Opening Brief, pp. 13-17.) The Court of Appeal recognized these two types of cases, but concluded that both raised questions of law. (*Sierra Club v. County of Fresno* (2014) 226 Cal.App.4th 704 (superseded by grant of review) 172 Cal.Rptr.3d 271, 290.) We believe the distinction drawn by Friant Ranch is unduly narrow, and inconsistent with cases which have concluded that CEQA documents are insufficient. In many instances, CEQA's requirements are stated broadly, and the courts must interpret the law to determine what level of analysis satisfies CEQA's mandate for providing meaningful information, even though the EIR discusses the issue to some extent.

For example, the CEQA Guidelines require discussion of the existing environmental baseline. In *County of Amador v. El Dorado County Water Agency* (1999) 76 Cal.App.4th 931, 954-955, the lead agency had discussed the environmental baseline by describing historic month-end water levels in the affected lakes. However, the court held that this was not an adequate baseline discussion because it failed to discuss the timing and amounts of past actual water releases, to allow comparison with the proposed project. The court evidently applied the independent judgment test to its decision, even though the agency discussed the issue to some extent.

Likewise, in *Vineyard Area Citizens* (2007) 40 Cal.4th 412, this Court addressed the question of whether an EIR's analysis of water supply impacts complied with CEQA. The parties agreed that the EIR was required to analyze the effects of providing water to the development project, "and that in order to do so the EIR had, in some manner, to identify the planned sources of that water." (*Vineyard Area Citizens, supra*, at p. 428.) However, the parties disagreed as to the level of detail required for this analysis and "what level of uncertainty regarding the availability of water supplies can be tolerated in an EIR . . . ." (*Id.*) In other words, the EIR had analyzed water supply impacts for the project, but the petitioner claimed that the analysis was insufficient.

This Court noted that neither CEQA's statutory language or the CEQA Guidelines specifically addressed the question of how precisely an EIR must discuss water supply impacts. (*Id.*) However, it explained that CEQA "states that '[w]hile foreseeing the unforeseeable is not possible, an agency must use its best efforts to find out and disclose all that it reasonably can.'" (*Id.*, [Guidelines § 15144].) The Court used this general principle, along with prior precedent, to elucidate four "principles for analytical adequacy" that are necessary in order to satisfy "CEQA's informational purposes." (*Vineyard Area Citizens, supra*, at p. 430.) The Court did not defer to the agency's determination that the EIR's analysis of water supply impacts was sufficient. Rather, this Court used its independent judgment to determine for itself the level of analysis required to satisfy CEQA's fundamental purposes. (*Vineyard Area Citizens, supra*, at p. 441: an EIR does not serve its purposes where it neglects to explain likely sources of water and "... leaves long term water supply considerations to later stages of the project.")

Similarly, the CEQA Guidelines require an analysis of noise impacts of the project. (Appendix G, “Environmental Checklist Form.”<sup>17</sup>) In *Gray v. County of Madera* (2008) 167 Cal.App.4th 1099, 1123, the court held that the lead agency’s noise impact analysis was inadequate even though it had addressed the issue and concluded that the increase would not be noticeable. If the court had been using the substantial evidence standard, it likely would have upheld this discussion.

Therefore, we do not agree that the issue can be resolved on the basis suggested by Friant Ranch, which would apply the substantial evidence standard to *every* challenge to an analysis that addresses a required CEQA topic. This interpretation would subvert the courts’ proper role in interpreting CEQA and determining what the law requires.

Nor do we agree that the Court of Appeal in this case violated CEQA’s prohibition on courts interpreting its provisions “in a manner which imposes procedural or substantive requirements beyond those explicitly stated in this division or in the state guidelines.” (Pub. Resources Code § 21083.1.) CEQA requires an EIR to describe *all* significant impacts of the project on the environment. (Pub. Resources Code § 21100(b)(2); *Vineyard Area Citizens, supra*, at p. 428.) Human beings are part of the environment, so CEQA requires EIRs to discuss a project’s significant impacts on human health. However, except in certain particular circumstances,<sup>18</sup> neither the CEQA statute nor Guidelines specify the precise level of analysis that agencies must undertake to satisfy the law’s requirements. (see, e.g., CEQA Guidelines § 15126.2(a) [EIRs must describe “health and safety problems caused by {a project’s} physical changes”].) Accordingly, courts must interpret CEQA as a whole to

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<sup>17</sup> Association of Environmental Professionals, 2015 CEQA Statute and Guidelines (2015) p.287.

<sup>18</sup> E.g., Pub. Resources Code § 21151.8(C)(3)(B)(iii) (requiring specific type of health risk analysis for siting schools).

determine whether a particular EIR is sufficient as an informational document. A court determining whether an EIR's discussion of human health impacts is legally sufficient does not constitute imposing a new substantive requirement.<sup>19</sup> Under Friant Ranch's theory, the above-referenced cases holding a CEQA analysis inadequate would have violated the law. This is not a reasonable interpretation.

#### **IV. COURTS MUST SCRUPULOUSLY ENFORCE THE REQUIREMENTS THAT LEAD AGENCIES CONSULT WITH AND OBTAIN COMMENTS FROM AIR DISTRICTS**

Courts must "scrupulously enforce" CEQA's legislatively mandated requirements. (*Vineyard Area Citizens, supra*, 40 Cal.4<sup>th</sup> 412, 435.) Case law has firmly established that lead agencies must consult with the relevant air pollution control district before conducting an initial study, and must provide the districts with notice of the intention to adopt a negative declaration (or EIR). (*Schenck v. County of Sonoma* (2011) 198 Cal.App.4th 949, 958.) As *Schenck* held, neither publishing the notice nor providing it to the State Clearinghouse was a sufficient substitute for sending notice directly to the air district. (*Id.*) Rather, courts "must be satisfied that [administrative] agencies have fully complied with the procedural requirements of CEQA, since only in this way can the important public purposes of CEQA be protected from subversion." *Schenck*, 198 Cal.App.4th at p. 959 (citations omitted).<sup>20</sup>

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<sup>19</sup> We submit that Public Resources Code Section 21083.1 was intended to prevent courts from, for example, holding that an agency must analyze economic impacts of a project where there are no resulting environmental impacts (see CEQA Guidelines § 15131), or imposing new procedural requirements, such as imposing additional public notice requirements not set forth in CEQA or the Guidelines.

<sup>20</sup> Lead agencies must consult air districts, as public agencies with jurisdiction by law over resources affected by the project, *before* releasing an EIR. (Pub. Resources Code §§ 21104(a); 21153.) Moreover, air

Lead agencies should be aware, therefore, that failure to properly seek and consider input from the relevant air district constitutes legal error which may jeopardize their project approvals. For example, the court in *Fall River Wild Trout Foundation v. County of Shasta*, (1999) 70 Cal.App.4th 482, 492 held that the failure to give notice to a trustee agency (Department of Fish and Game) was prejudicial error requiring reversal. The court explained that the lack of notice prevented the Department from providing any response to the CEQA document. (*Id.* at p. 492.) It therefore prevented relevant information from being presented to the lead agency, which was prejudicial error because it precluded informed decision-making. (*Id.*)<sup>21</sup>

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districts should be considered “state agencies” for purposes of the requirement to consult with “trustee agencies” as set forth in Public Resources Code § 20180.3(a). This Court has long ago held that the districts are not mere “local agencies” whose regulations are superseded by those of a state agency regarding matters of statewide concern, but rather have concurrent jurisdiction over such issues. (*Orange County Air Pollution Control District v. Public Util. Com.* (1971) 4 Cal.3d 945, 951, 954.) Since air pollution is a matter of statewide concern, *Id.* at 952, air districts should be entitled to trustee agency status in order to ensure that this vital concern is adequately protected during the CEQA process.

<sup>21</sup> In *Schenck*, the court concluded that failure to give notice to the air district was not prejudicial, but this was partly because the trial court had already corrected the error before the case arrived at the Court of Appeal. The trial court issued a writ of mandate requiring the lead agency to give notice to the air district. The air district responded by concurring with the lead agency that air impacts were not significant. (*Schenck*, 198 Cal.App.4th 949, 960.) We disagree with the *Schenck* court that the failure to give notice to the air district would not have been prejudicial (even in the absence of the trial court writ) merely because the lead agency purported to follow the air district’s published CEQA guidelines for significance. (*Id.*, 198 Cal.App.4th at p. 960.) In the first place, absent notice to the air district, it is uncertain whether the lead agency properly followed those guidelines. Moreover, it is not realistic to expect that an air district’s published guidelines would necessarily fully address all possible air-quality related issues that can arise with a CEQA project, or that those



Similarly, lead agencies must obtain additional information requested by expert agencies, including those with jurisdiction by law, if that information is necessary to determine a project's impacts. (*Sierra Club v. State Bd. Of Forestry* (1994) 7 Cal.4th 1215, 1236-37.) Approving a project without obtaining that information constitutes a failure to proceed in the manner prescribed by CEQA. (*Id.* at p. 1236.)

Moreover, a lead agency can save significant time and money by consulting with the air district early in the process. For example, the lead agency can learn what the air district recommends as an appropriate analysis on the facts of its case, including what kinds of health impacts analysis may be available, and what models are appropriate for use. This saves the lead agency from the need to do its analysis all over again and possibly needing to recirculate the document after errors are corrected, if new significant impacts are identified. (CEQA Guidelines § 15088.5(a).) At the same time, the air district's expert input can help the lead agency properly determine whether another commenter's request for additional analysis or studies is reasonable or feasible. Finally, the air district can provide input on what mitigation measures would be feasible and effective.

Therefore, we suggest that this Court provide guidance to lead agencies reminding them of the importance of consulting with the relevant air districts regarding these issues. Otherwise, their feasibility decisions may be vulnerable to air district evidence that establishes that there is no substantial evidence to support the lead agency decision not to provide specific analysis. (*See Berkeley Keep Jets Over the Bay, supra*, 91 Cal.App.4th 1344, 1369-1371.)

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guidelines would necessarily be continually modified to reflect new developments. Therefore we believe that, had the trial court not already ordered the lead agency to obtain the air district's views, the failure to give notice would have been prejudicial, as in *Fall River, supra*, 70 Cal.App.4th 482, 492.

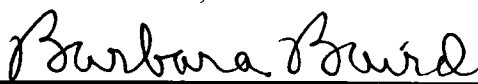
## CONCLUSION

The SCAQMD respectfully requests this Court *not* to establish a hard-and-fast rule concerning whether CEQA requires a lead agency to correlate identified air quality impacts of a project with resulting health outcomes. Moreover, the question of whether an EIR is “sufficient as an informational document” is a mixed question of fact and law containing two levels of inquiry. Whether a particular proposed analysis is feasible is predominantly a question of fact to be judged by the substantial evidence standard of review. Where the requested analysis is feasible, but the lead agency relies on legal or policy reasons not to provide it, the question of whether the EIR is nevertheless sufficient as an informational document is predominantly a question of law to be judged by the independent judgment standard of review.

Respectfully submitted,

DATED: April 3, 2015

SOUTH COAST AIR QUALITY  
MANAGEMENT DISTRICT  
KURT R. WIESE, GENERAL COUNSEL  
BARBARA BAIRD, CHIEF DEPUTY COUNSEL

By:   
Barbara Baird

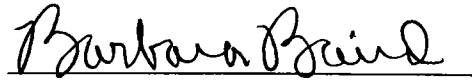
*Attorneys for Amicus Curiae*  
*SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT*

## CERTIFICATE OF WORD COUNT

Pursuant to Rule 8.520(c)(1) of the California Rules of Court, I hereby certify that this brief contains 8,476 words, including footnotes, but excluding the Application, Table of Contents, Table of Authorities, Certificate of Service, this Certificate of Word Count, and signature blocks. I have relied on the word count of the Microsoft Word Vista program used to prepare this Certificate.

DATED: April 3, 2015

Respectfully submitted,

  
Barbara Baird

**PROOF OF SERVICE**

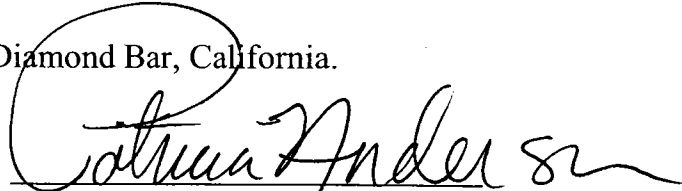
I am employed in the County of Los Angeles, California. I am over the age of 18 years and not a party to the within action. My business address is 21865 Copley Drive, Diamond Bar, California 91765.

On April 3, 2015 I served true copies of the following document(s) described as **APPLICATION OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT FOR LEAVE TO FILE BRIEF OF *AMICUS CURIAE* IN SUPPORT OF NEITHER PARTY AND [PROPOSED] BRIEF OF *AMICUS CURIAE*** by placing a true copy of the foregoing document(s) in a sealed envelope addressed as set forth on the attached service list as follows:

**BY MAIL:** I enclosed the document(s) in a sealed envelope or package addressed to the persons at the addresses listed in the Service List and placed the envelope for collection and mailing following our ordinary business practices. I am readily familiar with this District's practice for collection and processing of correspondence for mailing. Under that practice, the correspondence would be deposited with the United States Postal Service, with postage thereon fully prepaid at Diamond Bar, California, in the ordinary course of business. I am aware that on motion of the party served, service is presumed invalid if postal cancellation date or postage meter date is more than one day after date of deposit for mailing in affidavit.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Executed on April 3, 2015 at Diamond Bar, California.

  
Patricia Anderson

## SERVICE LIST

James G. Moose, Tiffany K. Wright,  
Laura M. Harris  
REMY MOOSE MANLEY, LLP  
555 Capitol Mall, Suite 800  
Sacramento, CA 95814

Attorneys for Real Party in  
Interest and Respondent *Friant  
Ranch, L.P.*

Bryan N. Wagner  
WAGNER & WAGNER  
7110 N. Fresno St, Suite 340  
Fresno, CA 93720

Attorney for Real Party in Interest  
and Respondent *Friant Ranch,  
L.P.*

Sara Hedgpeth-Harris  
LAW OFFICE OF SARA  
HEDGPETH-HARRIS  
5445 E. Lane Avenue  
Fresno, CA 93727

Attorney for Plaintiffs and  
Appellants *Sierra Club, et al*

Daniel C. Cederborg  
Bruce B. Johnson, Jr.  
Zachary Stephen Redmond  
OFFICE OF THE FRESNO COUNTY  
COUNSEL  
2220 Tulare Street, Suite 500  
Fresno, CA 93721

Attorneys for Respondents  
*County of Fresno*

Clerk of the Court  
California Court of Appeal  
Fifth Appellate District  
2424 Ventura Street  
Fresno, CA 93721  
(via U.S. Mail & Electronic Transmission)

Clerk of the Court  
Superior Court of California  
County of Fresno  
1130 O Street  
Fresno, CA 93721

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**APPENDIX 3.4:**

**AERMOD LST MODELING OUTPUT - CONSTRUCTION**

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** AERMOD Input Produced by:
** AERMOD View Ver. 11.0.0
** Lakes Environmental Software Inc.
** Date: 9/23/2022
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29 AQIA\14252 Cons CO\14252 Cons
CO.ADI

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** AERMOD Control Pathway
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MODELOPT DFAULT CONC
AVERTIME 1 8
URBANOPT 2035210
POLLUTID CO
FLAGPOLE 2.00
RUNORNOT RUN
ERRORFIL "14252 Cons CO.err"

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CO FINISHED
**
*****
** AERMOD Source Pathway
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SO STARTING
** Source Location **

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** Source ID - Type - X Coord. - Y Coord. **

```

Source ID	Type	X Coord.	Y Coord.
LOCATION VOL1	VOLUME	446353.525	3761131.686
LOCATION VOL2	VOLUME	446446.125	3761131.042
LOCATION VOL3	VOLUME	446539.533	3761130.447
LOCATION VOL4	VOLUME	446633.040	3761129.753
LOCATION VOL5	VOLUME	446726.282	3761130.182
LOCATION VOL6	VOLUME	446765.912	3761130.249
LOCATION VOL7	VOLUME	446765.912	3761036.279
LOCATION VOL8	VOLUME	446671.941	3761036.279
LOCATION VOL9	VOLUME	446577.377	3761036.279
LOCATION VOL10	VOLUME	446482.812	3761036.279
LOCATION VOL11	VOLUME	446389.436	3761038.063
LOCATION VOL12	VOLUME	446353.751	3760945.877
LOCATION VOL13	VOLUME	446446.532	3760945.282
LOCATION VOL14	VOLUME	446541.692	3760943.498
LOCATION VOL15	VOLUME	446633.283	3760942.903
LOCATION VOL16	VOLUME	446726.658	3760943.498
LOCATION VOL17	VOLUME	446755.206	3760943.498
LOCATION VOL18	VOLUME	446748.664	3760849.528
LOCATION VOL19	VOLUME	446655.883	3760850.122
LOCATION VOL20	VOLUME	446563.103	3760850.122
LOCATION VOL21	VOLUME	446470.322	3760860.233
LOCATION VOL22	VOLUME	446354.346	3761039.252
LOCATION VOL23	VOLUME	446376.946	3760860.828
LOCATION VOL24	VOLUME	446353.751	3760857.854
LOCATION VOL25	VOLUME	446885.787	3761133.683
LOCATION VOL26	VOLUME	446980.128	3761132.999
LOCATION VOL27	VOLUME	447072.419	3761132.316
LOCATION VOL28	VOLUME	447165.393	3761130.948
LOCATION VOL29	VOLUME	447166.104	3761038.359



LOCATION VOL30	VOLUME	447072.257	3761040.335	214.000
LOCATION VOL31	VOLUME	446979.399	3761039.347	214.440
LOCATION VOL32	VOLUME	446885.553	3761040.335	214.470
LOCATION VOL33	VOLUME	446886.540	3760946.983	213.100
LOCATION VOL34	VOLUME	446979.893	3760946.983	213.000
LOCATION VOL35	VOLUME	447073.739	3760948.464	213.090
LOCATION VOL36	VOLUME	447168.080	3760946.489	213.000
LOCATION VOL37	VOLUME	447169.561	3760852.148	212.130
LOCATION VOL38	VOLUME	447076.209	3760854.618	213.210
LOCATION VOL39	VOLUME	446979.893	3760854.618	213.010
LOCATION VOL40	VOLUME	446888.516	3760854.124	210.510
LOCATION VOL41	VOLUME	446886.540	3760779.541	210.000
LOCATION VOL42	VOLUME	446980.881	3760778.553	211.450
LOCATION VOL43	VOLUME	447074.233	3760778.059	210.000
LOCATION VOL44	VOLUME	447167.586	3760778.553	210.740
LOCATION VOL45	VOLUME	447261.542	3761130.609	213.790
LOCATION VOL46	VOLUME	447354.654	3761130.611	213.000
LOCATION VOL47	VOLUME	447448.792	3761131.192	212.500
LOCATION VOL48	VOLUME	447542.931	3761129.449	212.880
LOCATION VOL49	VOLUME	447566.175	3761130.030	213.000
LOCATION VOL50	VOLUME	447566.175	3761036.472	212.000
LOCATION VOL51	VOLUME	447473.199	3761037.634	212.000
LOCATION VOL52	VOLUME	447380.222	3761037.053	212.000
LOCATION VOL53	VOLUME	447286.664	3761035.891	213.000
LOCATION VOL54	VOLUME	447260.515	3761035.310	213.000
LOCATION VOL55	VOLUME	447262.258	3760942.333	212.000
LOCATION VOL56	VOLUME	447354.654	3760943.496	211.240
LOCATION VOL57	VOLUME	447447.630	3760945.239	211.000
LOCATION VOL58	VOLUME	447539.445	3760944.077	211.000
LOCATION VOL59	VOLUME	447561.527	3760944.077	211.000
LOCATION VOL60	VOLUME	447551.648	3760851.100	210.000
LOCATION VOL61	VOLUME	447456.928	3760852.262	210.000
LOCATION VOL62	VOLUME	447362.208	3760851.100	210.360
LOCATION VOL63	VOLUME	447269.812	3760849.938	211.040
LOCATION VOL64	VOLUME	447263.420	3760755.799	210.000
LOCATION VOL65	VOLUME	447356.397	3760756.380	210.000
LOCATION VOL66	VOLUME	447450.536	3760756.961	209.310
LOCATION VOL67	VOLUME	447546.418	3760758.704	209.000
LOCATION VOL68	VOLUME	447264.582	3760669.214	209.100
LOCATION VOL69	VOLUME	447358.721	3760702.918	209.080
LOCATION VOL70	VOLUME	447453.441	3760726.163	209.000
LOCATION VOL71	VOLUME	446884.540	3760685.485	210.000
LOCATION VOL72	VOLUME	446978.679	3760685.485	209.010
LOCATION VOL73	VOLUME	447072.237	3760684.904	210.000
LOCATION VOL74	VOLUME	447167.538	3760685.485	210.000
LOCATION VOL75	VOLUME	447169.281	3760618.658	209.280
LOCATION VOL76	VOLUME	447073.980	3760592.509	209.930
LOCATION VOL77	VOLUME	446979.260	3760591.928	209.510
LOCATION VOL78	VOLUME	446885.121	3760590.184	207.000
LOCATION VOL79	VOLUME	446881.054	3760504.181	207.000
LOCATION VOL80	VOLUME	446976.355	3760537.885	208.650
LOCATION VOL81	VOLUME	447071.656	3760573.332	209.830

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.0195901505	5.000	21.684	1.400
SRCPARAM VOL2	0.0195901505	5.000	21.684	1.400
SRCPARAM VOL3	0.0195901505	5.000	21.684	1.400
SRCPARAM VOL4	0.0195901505	5.000	21.684	1.400
SRCPARAM VOL5	0.0195901505	5.000	21.684	1.400
SRCPARAM VOL6	0.0195901505	5.000	21.684	1.400
SRCPARAM VOL7	0.0195901505	5.000	21.684	1.400
SRCPARAM VOL8	0.0195901505	5.000	21.684	1.400
SRCPARAM VOL9	0.0195901505	5.000	21.684	1.400
SRCPARAM VOL10	0.0195901505	5.000	21.684	1.400
SRCPARAM VOL11	0.0195901505	5.000	21.684	1.400
SRCPARAM VOL12	0.0195901505	5.000	21.684	1.400
SRCPARAM VOL13	0.0195901505	5.000	21.684	1.400



SRCPARAM	VOL80	0.0195901505	5.000	21.684	1.400
SRCPARAM	VOL81	0.0195901505	5.000	21.684	1.400
URBANSRC	ALL				

\*\* Variable Emissions Type: "By Hour / Day (HRDOW)"

\*\* Variable Emission Scenario: "Scenario 1"

\*\* WeekDays:

EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	VOL1	HRDOW	1.0	1.0	1.0	1.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Saturday:

EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Sunday:

EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* WeekDays:

EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	VOL2	HRDOW	1.0	1.0	1.0	1.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Saturday:

EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Sunday:

EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* WeekDays:

EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	VOL3	HRDOW	1.0	1.0	1.0	1.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Saturday:

EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Sunday:

EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* WeekDays:

EMISFACT	VOL4	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL4	HRDOW	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	VOL4	HRDOW	1.0	1.0	1.0	1.0	0.0	0.0
EMISFACT	VOL4	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Saturday:

EMISFACT	VOL4	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL4	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL4	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL4	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Sunday:

EMISFACT	VOL4	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL4	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL4	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL4	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0







































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EMISFACT VOL79      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL79      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL79      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT VOL80      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL80      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL80      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL80      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT VOL80      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL80      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL80      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL80      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT VOL80      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL80      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL80      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL80      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT VOL81      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL81      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL81      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL81      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT VOL81      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL81      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL81      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL81      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT VOL81      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL81      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL81      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL81      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
SRCGROUP ALL

```

SO FINISHED

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\*\*\*\*\*

\*\* AERMOD Receptor Pathway  
\*\*\*\*\*

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\*\*

RE STARTING  
INCLUDED "14252 Cons CO.rou"

RE FINISHED  
\*\*  
\*\*\*\*\*

\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*

\*\*  
\*\*

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 8 1ST
** Auto-Generated Plotfiles
PLOTFILE 1 ALL 1ST "14252 CONS CO.AD\01H1GALL.PLT" 31
PLOTFILE 8 ALL 1ST "14252 CONS CO.AD\08H1GALL.PLT" 32
SUMMFILE "14252 Cons CO.sum"
OU FINISHED
**
*****
** Project Parameters
*****
** PROJCTN CoordinateSystemUTM
** DESCPTN UTM: Universal Transverse Mercator
** DATUM World Geodetic System 1984
** DTMRGN Global Definition
** UNITS m
** ZONE 11
** ZONEINX 0
**
```

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.0.0
** Lakes Environmental Software Inc.
** Date: 9/23/2022
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29 AQIA\14252 Cons CO\14252 Cons
CO.ADI
**

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*****
**
**
*****
** AERMOD Control Pathway
*****
**
**

```

```

CO STARTING
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29 AQIA\14252 Ops
MODELOPT DFAULT CONC
AVERTIME 1 8
URBANOPT 2035210
POLLUTID CO
FLAGPOLE 2.00
RUNORNOT RUN
ERRORFIL "14252 Cons CO.err"

```

```

CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**

```

```

SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **

```

LOCATION	VOL	VOLUME	X Coord.	Y Coord.	Z Coord.
LOCATION VOL1		446353.525	3761131.686		210.000
LOCATION VOL2		446446.125	3761131.042		210.490
LOCATION VOL3		446539.533	3761130.447		211.160
LOCATION VOL4		446633.040	3761129.753		212.700
LOCATION VOL5		446726.282	3761130.182		213.760
LOCATION VOL6		446765.912	3761130.249		214.410
LOCATION VOL7		446765.912	3761036.279		213.290
LOCATION VOL8		446671.941	3761036.279		211.830
LOCATION VOL9		446577.377	3761036.279		210.730
LOCATION VOL10		446482.812	3761036.279		209.630
LOCATION VOL11		446389.436	3761038.063		208.600
LOCATION VOL12		446353.751	3760945.877		207.050
LOCATION VOL13		446446.532	3760945.282		208.070
LOCATION VOL14		446541.692	3760943.498		209.100
LOCATION VOL15		446633.283	3760942.903		210.100
LOCATION VOL16		446726.658	3760943.498		210.240
LOCATION VOL17		446755.206	3760943.498		210.770
LOCATION VOL18		446748.664	3760849.528		210.000
LOCATION VOL19		446655.883	3760850.122		209.000
LOCATION VOL20		446563.103	3760850.122		208.020
LOCATION VOL21		446470.322	3760860.233		207.480
LOCATION VOL22		446354.346	3761039.252		208.430
LOCATION VOL23		446376.946	3760860.828		207.000
LOCATION VOL24		446353.751	3760857.854		207.000
LOCATION VOL25		446885.787	3761133.683		216.000
LOCATION VOL26		446980.128	3761132.999		216.000
LOCATION VOL27		447072.419	3761132.316		216.000
LOCATION VOL28		447165.393	3761130.948		214.900

LOCATION VOL29	VOLUME	447166.104	3761038.359	214.000
LOCATION VOL30	VOLUME	447072.257	3761040.335	214.000
LOCATION VOL31	VOLUME	446979.399	3761039.347	214.440
LOCATION VOL32	VOLUME	446885.553	3761040.335	214.470
LOCATION VOL33	VOLUME	446886.540	3760946.983	213.100
LOCATION VOL34	VOLUME	446979.893	3760946.983	213.000
LOCATION VOL35	VOLUME	447073.739	3760948.464	213.090
LOCATION VOL36	VOLUME	447168.080	3760946.489	213.000
LOCATION VOL37	VOLUME	447169.561	3760852.148	212.130
LOCATION VOL38	VOLUME	447076.209	3760854.618	213.210
LOCATION VOL39	VOLUME	446979.893	3760854.618	213.010
LOCATION VOL40	VOLUME	446888.516	3760854.124	210.510
LOCATION VOL41	VOLUME	446886.540	3760779.541	210.000
LOCATION VOL42	VOLUME	446980.881	3760778.553	211.450
LOCATION VOL43	VOLUME	447074.233	3760778.059	210.000
LOCATION VOL44	VOLUME	447167.586	3760778.553	210.740
LOCATION VOL45	VOLUME	447261.542	3761130.609	213.790
LOCATION VOL46	VOLUME	447354.654	3761130.611	213.000
LOCATION VOL47	VOLUME	447448.792	3761131.192	212.500
LOCATION VOL48	VOLUME	447542.931	3761129.449	212.880
LOCATION VOL49	VOLUME	447566.175	3761130.030	213.000
LOCATION VOL50	VOLUME	447566.175	3761036.472	212.000
LOCATION VOL51	VOLUME	447473.199	3761037.634	212.000
LOCATION VOL52	VOLUME	447380.222	3761037.053	212.000
LOCATION VOL53	VOLUME	447286.664	3761035.891	213.000
LOCATION VOL54	VOLUME	447260.515	3761035.310	213.000
LOCATION VOL55	VOLUME	447262.258	3760942.333	212.000
LOCATION VOL56	VOLUME	447354.654	3760943.496	211.240
LOCATION VOL57	VOLUME	447447.630	3760945.239	211.000
LOCATION VOL58	VOLUME	447539.445	3760944.077	211.000
LOCATION VOL59	VOLUME	447561.527	3760944.077	211.000
LOCATION VOL60	VOLUME	447551.648	3760851.100	210.000
LOCATION VOL61	VOLUME	447456.928	3760852.262	210.000
LOCATION VOL62	VOLUME	447362.208	3760851.100	210.360
LOCATION VOL63	VOLUME	447269.812	3760849.938	211.040
LOCATION VOL64	VOLUME	447263.420	3760755.799	210.000
LOCATION VOL65	VOLUME	447356.397	3760756.380	210.000
LOCATION VOL66	VOLUME	447450.536	3760756.961	209.310
LOCATION VOL67	VOLUME	447546.418	3760758.704	209.000
LOCATION VOL68	VOLUME	447264.582	3760669.214	209.100
LOCATION VOL69	VOLUME	447358.721	3760702.918	209.080
LOCATION VOL70	VOLUME	447453.441	3760726.163	209.000
LOCATION VOL71	VOLUME	446884.540	3760685.485	210.000
LOCATION VOL72	VOLUME	446978.679	3760685.485	209.010
LOCATION VOL73	VOLUME	447072.237	3760684.904	210.000
LOCATION VOL74	VOLUME	447167.538	3760685.485	210.000
LOCATION VOL75	VOLUME	447169.281	3760618.658	209.280
LOCATION VOL76	VOLUME	447073.980	3760592.509	209.930
LOCATION VOL77	VOLUME	446979.260	3760591.928	209.510
LOCATION VOL78	VOLUME	446885.121	3760590.184	207.000
LOCATION VOL79	VOLUME	446881.054	3760504.181	207.000
LOCATION VOL80	VOLUME	446976.355	3760537.885	208.650
LOCATION VOL81	VOLUME	447071.656	3760573.332	209.830

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.0195901505	5.000	21.684	1.400
SRCPARAM VOL2	0.0195901505	5.000	21.684	1.400
SRCPARAM VOL3	0.0195901505	5.000	21.684	1.400
SRCPARAM VOL4	0.0195901505	5.000	21.684	1.400
SRCPARAM VOL5	0.0195901505	5.000	21.684	1.400
SRCPARAM VOL6	0.0195901505	5.000	21.684	1.400
SRCPARAM VOL7	0.0195901505	5.000	21.684	1.400
SRCPARAM VOL8	0.0195901505	5.000	21.684	1.400
SRCPARAM VOL9	0.0195901505	5.000	21.684	1.400
SRCPARAM VOL10	0.0195901505	5.000	21.684	1.400
SRCPARAM VOL11	0.0195901505	5.000	21.684	1.400
SRCPARAM VOL12	0.0195901505	5.000	21.684	1.400





SRCPARAM	VOL79	0.0195901505	5.000	21.684	1.400
SRCPARAM	VOL80	0.0195901505	5.000	21.684	1.400
SRCPARAM	VOL81	0.0195901505	5.000	21.684	1.400
URBANSRC	ALL				

\*\* Variable Emissions Type: "By Hour / Day (HRDOW)"

\*\* Variable Emission Scenario: "Scenario 1"

\*\* WeekDays:

EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	VOL1	HRDOW	1.0	1.0	1.0	1.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Saturday:

EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Sunday:

EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* WeekDays:

EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	VOL2	HRDOW	1.0	1.0	1.0	1.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Saturday:

EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Sunday:

EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* WeekDays:

EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	VOL3	HRDOW	1.0	1.0	1.0	1.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Saturday:

EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Sunday:

EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* WeekDays:

EMISFACT	VOL4	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL4	HRDOW	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	VOL4	HRDOW	1.0	1.0	1.0	1.0	0.0	0.0
EMISFACT	VOL4	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Saturday:

EMISFACT	VOL4	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL4	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL4	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL4	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Sunday:

EMISFACT	VOL4	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL4	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL4	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0







































```

EMISFACT VOL79      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL79      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL79      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL79      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT VOL80      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL80      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL80      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL80      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT VOL80      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL80      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL80      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL80      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT VOL80      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL80      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL80      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL80      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT VOL81      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL81      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL81      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL81      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT VOL81      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL81      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL81      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL81      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT VOL81      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL81      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL81      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL81      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
SRCGROUP ALL

```

SO FINISHED

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\*\*\*\*\*

\*\* AERMOD Receptor Pathway  
\*\*\*\*\*

\*\*  
\*\*

RE STARTING  
INCLUDED "14252 Cons CO.rou"

RE FINISHED  
\*\*  
\*\*\*\*\*

\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*

\*\*  
\*\*

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 8 1ST  
\*\* Auto-Generated Plotfiles  
PLOTFILE 1 ALL 1ST "14252 CONS CO.AD\01H1GALL.PLT" 31  
PLOTFILE 8 ALL 1ST "14252 CONS CO.AD\08H1GALL.PLT" 32  
SUMMFILE "14252 Cons CO.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 1442 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 1442 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

FF \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.
- \* Model Uses NO DRY DEPLETION. DDPLETE = F
- \* Model Uses NO WET DEPLETION. WETDPLT = F
- \* Stack-tip Downwash.
- \* Model Accounts for ELEVated Terrain Effects.
- \* Use Calms Processing Routine.
- \* Use Missing Data Processing Routine.
- \* No Exponential Decay.
- \* Model Uses URBAN Dispersion Algorithm for the SBL for 81 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2035210.0 ; Urban Roughness Length = 1.000 m
- \* Urban Roughness Length of 1.0 Meter Used.
- \* 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 Accepts FLAGPOLE Receptor . Heights.
- \* The User Specified a Pollutant Type of: CO

\*\*Model Calculates 2 Short Term Average(s) of: 1-HR 8-HR

\*\*This Run Includes: 81 Source(s); 1 Source Group(s); and 81 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)

and: 81 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 a total of 0 line(s)

and: 0 SWPOINT source(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 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 = 3.6 MB of RAM.

\*\*Input Runstream File:

aermod.inp

\*\*Output Print File:

aermod.out

\*\*Detailed Error/Message File: 14252 Cons

CO.err

\*\*File for Summary of Results: 14252 Cons

CO.sum

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION RATE			BASE	RELEASE	INIT.	INIT.
SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY	SZ
ID	SCALAR VARY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	CATS.	BY						

VOL1 0 0.19590E-01 446353.5 3761131.7 210.0 5.00 21.68 1.40  
YES HRDOW



VOL35	0	0.19590E-01	447073.7	3760948.5	213.1	5.00	21.68	1.40
YES	HRDOW							
VOL36	0	0.19590E-01	447168.1	3760946.5	213.0	5.00	21.68	1.40
YES	HRDOW							
VOL37	0	0.19590E-01	447169.6	3760852.1	212.1	5.00	21.68	1.40
YES	HRDOW							
VOL38	0	0.19590E-01	447076.2	3760854.6	213.2	5.00	21.68	1.40
YES	HRDOW							
VOL39	0	0.19590E-01	446979.9	3760854.6	213.0	5.00	21.68	1.40
YES	HRDOW							
VOL40	0	0.19590E-01	446888.5	3760854.1	210.5	5.00	21.68	1.40
YES	HRDOW							

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	SCALAR	PART.	NUMBER	EMISSION RATE		BASE	RELEASE	INIT.	INIT.
				EMISSION RATE					
SOURCE	ID	CATS.	VARY	URBAN		ELEV.	HEIGHT	SY	SZ
				(GRAMS/SEC)					
	(METERS)			(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	
VOL41	0	0.19590E-01	446886.5	3760779.5	210.0	5.00	21.68	1.40	
YES	HRDOW								
VOL42	0	0.19590E-01	446980.9	3760778.6	211.5	5.00	21.68	1.40	
YES	HRDOW								
VOL43	0	0.19590E-01	447074.2	3760778.1	210.0	5.00	21.68	1.40	
YES	HRDOW								
VOL44	0	0.19590E-01	447167.6	3760778.6	210.7	5.00	21.68	1.40	
YES	HRDOW								
VOL45	0	0.19590E-01	447261.5	3761130.6	213.8	5.00	21.68	1.40	
YES	HRDOW								
VOL46	0	0.19590E-01	447354.7	3761130.6	213.0	5.00	21.68	1.40	
YES	HRDOW								
VOL47	0	0.19590E-01	447448.8	3761131.2	212.5	5.00	21.68	1.40	
YES	HRDOW								
VOL48	0	0.19590E-01	447542.9	3761129.4	212.9	5.00	21.68	1.40	
YES	HRDOW								
VOL49	0	0.19590E-01	447566.2	3761130.0	213.0	5.00	21.68	1.40	
YES	HRDOW								
VOL50	0	0.19590E-01	447566.2	3761036.5	212.0	5.00	21.68	1.40	
YES	HRDOW								
VOL51	0	0.19590E-01	447473.2	3761037.6	212.0	5.00	21.68	1.40	
YES	HRDOW								
VOL52	0	0.19590E-01	447380.2	3761037.1	212.0	5.00	21.68	1.40	
YES	HRDOW								
VOL53	0	0.19590E-01	447286.7	3761035.9	213.0	5.00	21.68	1.40	
YES	HRDOW								
VOL54	0	0.19590E-01	447260.5	3761035.3	213.0	5.00	21.68	1.40	
YES	HRDOW								
VOL55	0	0.19590E-01	447262.3	3760942.3	212.0	5.00	21.68	1.40	
YES	HRDOW								
VOL56	0	0.19590E-01	447354.7	3760943.5	211.2	5.00	21.68	1.40	
YES	HRDOW								
VOL57	0	0.19590E-01	447447.6	3760945.2	211.0	5.00	21.68	1.40	
YES	HRDOW								

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VOL81 0 0.19590E-01 447071.7 3760573.3 209.8 5.00 21.68 1.40

YES HRDOW

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID

SOURCE IDs

SRCGROUP ID	SOURCE IDs							
ALL	VOL1	, VOL2	, VOL3	, VOL4	, VOL5	, VOL6	,	
VOL7	, VOL8	,						
	VOL9	, VOL10	, VOL11	, VOL12	, VOL13	, VOL14	,	
	VOL15	, VOL16	,					
	VOL17	, VOL18	, VOL19	, VOL20	, VOL21	, VOL22	,	
	VOL23	, VOL24	,					
	VOL25	, VOL26	, VOL27	, VOL28	, VOL29	, VOL30	,	
	VOL31	, VOL32	,					
	VOL33	, VOL34	, VOL35	, VOL36	, VOL37	, VOL38	,	
	VOL39	, VOL40	,					
	VOL41	, VOL42	, VOL43	, VOL44	, VOL45	, VOL46	,	
	VOL47	, VOL48	,					
	VOL49	, VOL50	, VOL51	, VOL52	, VOL53	, VOL54	,	
	VOL55	, VOL56	,					
	VOL57	, VOL58	, VOL59	, VOL60	, VOL61	, VOL62	,	
	VOL63	, VOL64	,					
	VOL65	, VOL66	, VOL67	, VOL68	, VOL69	, VOL70	,	
	VOL71	, VOL72	,					
	VOL73	, VOL74	, VOL75	, VOL76	, VOL77	, VOL78	,	
	VOL79	, VOL80	,					
	VOL81	,						

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

URBAN ID

URBAN POP

SOURCE IDs

URBAN ID	URBAN POP	SOURCE IDs							
	2035210.	VOL1	, VOL2	, VOL3	, VOL4	, VOL5	,		
	VOL6	, VOL7	,						
VOL8	,								

VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 ,  
VOL15 , VOL16 , ,  
VOL17 , VOL18 , VOL19 , VOL20 , VOL21 , VOL22 ,  
VOL23 , VOL24 , ,  
VOL25 , VOL26 , VOL27 , VOL28 , VOL29 , VOL30 ,  
VOL31 , VOL32 , ,  
VOL33 , VOL34 , VOL35 , VOL36 , VOL37 , VOL38 ,  
VOL39 , VOL40 , ,  
VOL41 , VOL42 , VOL43 , VOL44 , VOL45 , VOL46 ,  
VOL47 , VOL48 , ,  
VOL49 , VOL50 , VOL51 , VOL52 , VOL53 , VOL54 ,  
VOL55 , VOL56 , ,  
VOL57 , VOL58 , VOL59 , VOL60 , VOL61 , VOL62 ,  
VOL63 , VOL64 , ,  
VOL65 , VOL66 , VOL67 , VOL68 , VOL69 , VOL70 ,  
VOL71 , VOL72 , ,  
VOL73 , VOL74 , VOL75 , VOL76 , VOL77 , VOL78 ,  
VOL79 , VOL80 , ,

VOL81 ,

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL1 ; SOURCE TYPE = VOLUME :

SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
DAY OF WEEK = WEEKDAY											
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	
	.1000E+01	15	.1000E+01	16	.1000E+01						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						
DAY OF WEEK = SATURDAY											
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						
DAY OF WEEK = SUNDAY											
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL2 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
.0000E+00	7	.0000E+00	8	.0000E+00							
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
.1000E+01	15	.1000E+01	16	.1000E+01							
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00
.0000E+00	23	.0000E+00	24	.0000E+00							

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
.0000E+00	7	.0000E+00	8	.0000E+00							
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
.0000E+00	15	.0000E+00	16	.0000E+00							
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00
.0000E+00	23	.0000E+00	24	.0000E+00							

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
.0000E+00	7	.0000E+00	8	.0000E+00							
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
.0000E+00	15	.0000E+00	16	.0000E+00							
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00
.0000E+00	23	.0000E+00	24	.0000E+00							

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL3 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
.0000E+00	7	.0000E+00	8	.0000E+00							
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
.1000E+01	15	.1000E+01	16	.1000E+01							
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00
.0000E+00	23	.0000E+00	24	.0000E+00							

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
.0000E+00	7	.0000E+00	8	.0000E+00							
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
.0000E+00	15	.0000E+00	16	.0000E+00							
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00
.0000E+00	23	.0000E+00	24	.0000E+00							

.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL4 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL5 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL6 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL7 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR

SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL8 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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AQIA\14252 Ops \*\*\* 09/23/22
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL9 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL10 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14



.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL11 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL12 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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AQIA\14252 Ops \*\*\* 09/23/22

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL13 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL14 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6

.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL15 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL16 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
 (HRDOW) \*

SOURCE ID = VOL17 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL18 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL19 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL20 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL21 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL22 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL23 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL24 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*



\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL25 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL26 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00

.0000E+00 23 .0000E+00 24 .0000E+00  
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AQIA\14252 Ops \*\*\* 09/23/22  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL27 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL28 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL29 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL30 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14

.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL31 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL32 ; SOURCE TYPE = VOLUME :

HR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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AQIA\14252 Ops \*\*\* 09/23/22  
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\*\*\* \*\*\* 10:12:56

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL33 ; SOURCE TYPE = VOLUME :

HR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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AQIA\14252 Ops \*\*\* 09/23/22  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* \*\*\* 10:12:56

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL34 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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AQIA\14252 Ops \*\*\* 09/23/22
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\*\*\* 10:12:56

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL35 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL36 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* \*\* 10:12:56

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL37 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6

.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL38 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL39 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY



1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL40 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK

(HRDOW) \*

SOURCE ID = VOL41 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL42 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL43 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

Table with 12 columns (HOUR, SCALAR) and 12 rows of data for WEEKDAY.

DAY OF WEEK = SATURDAY

Table with 12 columns (HOUR, SCALAR) and 12 rows of data for SATURDAY.

DAY OF WEEK = SUNDAY

Table with 12 columns (HOUR, SCALAR) and 12 rows of data for SUNDAY.

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL44 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

Table with 12 columns (HOUR, SCALAR) and 12 rows of data for WEEKDAY.

DAY OF WEEK = SATURDAY

Table with 12 columns (HOUR, SCALAR) and 12 rows of data for SATURDAY.

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL45 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL46 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00

.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL47 ; SOURCE TYPE = VOLUME :

Hour SCALAR Hour SCALAR Hour SCALAR Hour SCALAR Hour SCALAR Hour
SCALAR Hour SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL48 ; SOURCE TYPE = VOLUME :

Hour SCALAR Hour SCALAR Hour SCALAR Hour SCALAR Hour SCALAR Hour
SCALAR Hour SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00	2 .0000E+00	3 .0000E+00	4 .0000E+00	5 .0000E+00	6
.0000E+00	7 .0000E+00	8 .0000E+00			
9 .1000E+01	10 .1000E+01	11 .1000E+01	12 .1000E+01	13 .1000E+01	14
.1000E+01	15 .1000E+01	16 .1000E+01			
17 .0000E+00	18 .0000E+00	19 .0000E+00	20 .0000E+00	21 .0000E+00	22
.0000E+00	23 .0000E+00	24 .0000E+00			

DAY OF WEEK = SATURDAY

1 .0000E+00	2 .0000E+00	3 .0000E+00	4 .0000E+00	5 .0000E+00	6
.0000E+00	7 .0000E+00	8 .0000E+00			
9 .0000E+00	10 .0000E+00	11 .0000E+00	12 .0000E+00	13 .0000E+00	14
.0000E+00	15 .0000E+00	16 .0000E+00			
17 .0000E+00	18 .0000E+00	19 .0000E+00	20 .0000E+00	21 .0000E+00	22
.0000E+00	23 .0000E+00	24 .0000E+00			

DAY OF WEEK = SUNDAY

1 .0000E+00	2 .0000E+00	3 .0000E+00	4 .0000E+00	5 .0000E+00	6
.0000E+00	7 .0000E+00	8 .0000E+00			
9 .0000E+00	10 .0000E+00	11 .0000E+00	12 .0000E+00	13 .0000E+00	14
.0000E+00	15 .0000E+00	16 .0000E+00			
17 .0000E+00	18 .0000E+00	19 .0000E+00	20 .0000E+00	21 .0000E+00	22
.0000E+00	23 .0000E+00	24 .0000E+00			

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AQIA\14252 Ops ***                  09/23/22
*** AERMET - VERSION 16216 ***
***                                     *** 10:12:56
    
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL49	;	SOURCE TYPE = VOLUME	:																			
<table border="0" style="width: 100%;"> <tr> <td>HOUR</td><td>SCALAR</td><td>HOUR</td><td>SCALAR</td><td>HOUR</td><td>SCALAR</td><td>HOUR</td><td>SCALAR</td><td>HOUR</td><td>SCALAR</td><td>HOUR</td> </tr> <tr> <td>SCALAR</td><td>HOUR</td><td>SCALAR</td><td>HOUR</td><td>SCALAR</td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR						
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR												
SCALAR	HOUR	SCALAR	HOUR	SCALAR																		

DAY OF WEEK = WEEKDAY

1 .0000E+00	2 .0000E+00	3 .0000E+00	4 .0000E+00	5 .0000E+00	6
.0000E+00	7 .0000E+00	8 .0000E+00			
9 .1000E+01	10 .1000E+01	11 .1000E+01	12 .1000E+01	13 .1000E+01	14
.1000E+01	15 .1000E+01	16 .1000E+01			
17 .0000E+00	18 .0000E+00	19 .0000E+00	20 .0000E+00	21 .0000E+00	22
.0000E+00	23 .0000E+00	24 .0000E+00			

DAY OF WEEK = SATURDAY

1 .0000E+00	2 .0000E+00	3 .0000E+00	4 .0000E+00	5 .0000E+00	6
.0000E+00	7 .0000E+00	8 .0000E+00			
9 .0000E+00	10 .0000E+00	11 .0000E+00	12 .0000E+00	13 .0000E+00	14
.0000E+00	15 .0000E+00	16 .0000E+00			
17 .0000E+00	18 .0000E+00	19 .0000E+00	20 .0000E+00	21 .0000E+00	22
.0000E+00	23 .0000E+00	24 .0000E+00			

DAY OF WEEK = SUNDAY

1 .0000E+00	2 .0000E+00	3 .0000E+00	4 .0000E+00	5 .0000E+00	6
.0000E+00	7 .0000E+00	8 .0000E+00			
9 .0000E+00	10 .0000E+00	11 .0000E+00	12 .0000E+00	13 .0000E+00	14
.0000E+00	15 .0000E+00	16 .0000E+00			
17 .0000E+00	18 .0000E+00	19 .0000E+00	20 .0000E+00	21 .0000E+00	22
.0000E+00	23 .0000E+00	24 .0000E+00			

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AQIA\14252 Ops ***                  09/23/22
*** AERMET - VERSION 16216 ***
***                                     *** 10:12:56
    
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL50 ; SOURCE TYPE = VOLUME :

Hourly emission rate scalars for source VOL50, showing columns for HOUR and SCALAR for each day of the week.

DAY OF WEEK = WEEKDAY

Weekday emission rate scalars for source VOL50, with values ranging from 0.0000E+00 to 0.1000E+01.

DAY OF WEEK = SATURDAY

Saturday emission rate scalars for source VOL50, with values ranging from 0.0000E+00 to 0.0000E+00.

DAY OF WEEK = SUNDAY

Sunday emission rate scalars for source VOL50, with values ranging from 0.0000E+00 to 0.0000E+00.

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL51 ; SOURCE TYPE = VOLUME :

Hourly emission rate scalars for source VOL51, showing columns for HOUR and SCALAR for each day of the week.

DAY OF WEEK = WEEKDAY

Weekday emission rate scalars for source VOL51, with values ranging from 0.0000E+00 to 0.1000E+01.

DAY OF WEEK = SATURDAY

Saturday emission rate scalars for source VOL51, with values ranging from 0.0000E+00 to 0.0000E+00.

DAY OF WEEK = SUNDAY

Sunday emission rate scalars for source VOL51, with values ranging from 0.0000E+00 to 0.0000E+00.

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00  
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AQIA\14252 Ops \*\*\* 09/23/22  
\*\*\* AERMET - VERSION 16216 \*\*\*  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL52 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL53 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14



.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL54 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL55 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00

9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* \*\* 10:12:56

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL56 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* \*\* 10:12:56

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL57 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:12:56

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL58 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL59 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

Table with 12 columns (1-12) and 6 rows of scalar values for Weekday.

DAY OF WEEK = SATURDAY

Table with 12 columns (1-12) and 6 rows of scalar values for Saturday.

DAY OF WEEK = SUNDAY

Table with 12 columns (1-12) and 6 rows of scalar values for Sunday.

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL60 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

Table with 12 columns (1-12) and 6 rows of scalar values for Weekday.

DAY OF WEEK = SATURDAY

Table with 12 columns (1-12) and 6 rows of scalar values for Saturday.

DAY OF WEEK = SUNDAY

Table with 12 columns (1-12) and 1 row of scalar values for Sunday.

.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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AQIA\14252 Ops \*\*\* 09/23/22  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL61 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL62 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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AQIA\14252 Ops \*\*\* 09/23/22  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL63 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL64 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL65 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL66 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL67 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00



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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL68 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	
	.1000E+01	15	.1000E+01	16	.1000E+01						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL69 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	
	.1000E+01	15	.1000E+01	16	.1000E+01						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL70 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL71 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL72 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29  
AQIA\14252 Ops \*\*\* 09/23/22

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 10:12:56

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL73 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR

SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL74 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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AQIA\14252 Ops \*\*\* 09/23/22
\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\* 10:12:56

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL75 ; SOURCE TYPE = VOLUME :
HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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AQIA\14252 Ops \*\*\* 09/23/22
\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\* 10:12:56

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL76 ; SOURCE TYPE = VOLUME :
HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14

.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00  
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AQIA\14252 Ops \*\*\* 09/23/22  
\*\*\* AERMET - VERSION 16216 \*\*\*  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL77 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL78 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL79 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL80 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6

.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL81 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)



(METERS)

( 446880.6, 3760419.5, 207.0, 207.0, 2.0); ( 446886.3, 3760422.3, 207.0, 207.0, 2.0);  
( 446909.2, 3760429.0, 207.0, 207.0, 2.0); ( 446932.4, 3760438.0, 207.3, 207.3, 2.0);  
( 446953.6, 3760447.2, 207.4, 207.4, 2.0); ( 446975.6, 3760454.9, 207.9, 207.9, 2.0);  
( 446990.2, 3760460.5, 208.0, 208.0, 2.0); ( 447027.1, 3760473.2, 208.0, 208.0, 2.0);  
( 447050.9, 3760483.6, 208.4, 208.4, 2.0); ( 447070.3, 3760490.6, 209.0, 209.0, 2.0);  
( 447089.8, 3760497.4, 209.0, 209.0, 2.0); ( 447109.3, 3760505.8, 208.9, 208.9, 2.0);  
( 447130.0, 3760512.9, 208.9, 208.9, 2.0); ( 447151.3, 3760520.7, 209.0, 209.0, 2.0);  
( 447193.4, 3760535.7, 208.6, 208.6, 2.0); ( 447230.8, 3760550.4, 208.1, 208.1, 2.0);  
( 447252.1, 3760557.7, 208.0, 208.0, 2.0); ( 447273.7, 3760565.5, 208.0, 208.0, 2.0);  
( 447292.7, 3760572.8, 208.0, 208.0, 2.0); ( 447339.1, 3760589.1, 208.0, 208.0, 2.0);  
( 447365.4, 3760597.9, 208.0, 208.0, 2.0); ( 447401.6, 3760610.9, 208.1, 208.1, 2.0);  
( 447434.1, 3760622.3, 208.0, 208.0, 2.0); ( 447468.0, 3760634.8, 208.0, 208.0, 2.0);  
( 447497.5, 3760645.0, 208.3, 208.3, 2.0); ( 447521.4, 3760652.6, 208.5, 208.5, 2.0);  
( 447547.0, 3760662.6, 208.9, 208.9, 2.0); ( 447578.8, 3760675.1, 209.0, 209.0, 2.0);  
( 447648.3, 3760700.8, 209.0, 209.0, 2.0); ( 447679.0, 3760712.0, 209.0, 209.0, 2.0);  
( 447705.1, 3760721.8, 209.0, 209.0, 2.0); ( 447666.0, 3760779.6, 209.8, 209.8, 2.0);  
( 447647.4, 3760831.4, 210.0, 210.0, 2.0); ( 447648.7, 3760893.4, 210.6, 210.6, 2.0);  
( 447649.4, 3760953.0, 211.0, 211.0, 2.0); ( 447648.7, 3760987.3, 211.7, 211.7, 2.0);  
( 447649.0, 3761070.7, 212.5, 212.5, 2.0); ( 447649.2, 3761155.1, 213.0, 213.0, 2.0);  
( 447577.5, 3761210.6, 213.1, 213.1, 2.0); ( 447650.0, 3761221.8, 214.0, 214.0, 2.0);  
( 446484.6, 3761227.3, 212.0, 212.0, 2.0); ( 446553.2, 3761230.1, 212.6, 212.6, 2.0);  
( 446513.5, 3761230.1, 212.0, 212.0, 2.0); ( 446297.9, 3761173.0, 210.0, 210.0, 2.0);  
( 446296.6, 3761131.3, 209.9, 209.9, 2.0); ( 446296.6, 3761111.8, 209.7, 209.7, 2.0);  
( 446296.8, 3761092.8, 209.2, 209.2, 2.0); ( 446295.8, 3761072.8, 209.0, 209.0, 2.0);  
( 446296.6, 3761056.1, 209.0, 209.0, 2.0); ( 446296.3, 3761037.7, 208.4, 208.4, 2.0);  
( 446296.3, 3761019.4, 208.0, 208.0, 2.0); ( 446295.3, 3761001.3, 208.0, 208.0, 2.0);  
( 446295.5, 3760982.3, 207.5, 207.5, 2.0); ( 446295.5, 3760963.7, 207.0, 207.0, 2.0);  
( 446294.6, 3760945.4, 207.0, 207.0, 2.0); ( 446295.3, 3760926.4, 207.0, 207.0, 2.0);  
( 446295.0, 3760909.8, 207.0, 207.0, 2.0); ( 446294.0, 3760894.8, 207.0, 207.0, 2.0);  
( 446294.4, 3760880.8, 207.0, 207.0, 2.0); ( 446294.6, 3760867.5, 206.8, 206.8, 2.0);  
( 446294.6, 3760853.6, 206.4, 206.4, 2.0); ( 446294.8, 3760835.3, 206.1, 206.1, 2.0);  
( 446294.2, 3760806.2, 206.0, 206.0, 2.0); ( 446391.7, 3760794.1, 207.0, 207.0, 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 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29  
 AQIA\14252 Ops \*\*\* 09/23/22

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 10:12:56

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR  
 SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): VOL1 , VOL2 ,  
 VOL3 , VOL4 , VOL5  
 VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
 VOL11 , VOL12 , VOL13 ,  
 VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
 VOL19 , VOL20 , VOL21 ,  
 VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
 VOL27 , VOL28 , . . .

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF CO IN \*\*  
 MICROGRAMS/M\*\*3

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
(M)	CONC	(YYMMDDHH)			
446880.58	3760419.47	17.11372	(14121616)	446886.26	
3760422.30	17.53644	(14121616)			
446909.21	3760429.01	19.89821	(15122816)	446932.42	
3760438.03	20.12966	(14120116)			
446953.64	3760447.19	18.66501	(12122413)	446975.65	
3760454.95	20.25999	(15122816)			
446990.22	3760460.49	24.14094	(15122816)	447027.12	
3760473.16	28.01349	(14120116)			
447050.87	3760483.61	24.37934	(14120116)	447070.35	
3760490.58	23.94590	(14120116)			
447089.83	3760497.39	29.73186	(15122816)	447109.31	
3760505.78	35.13142	(14120116)			
447130.05	3760512.91	32.36687	(14120116)	447151.27	
3760520.67	25.85042	(12122516)			
447193.40	3760535.71	27.79272	(12122516)	447230.77	
3760550.44	25.72119	(12122516)			
447252.15	3760557.73	25.42439	(12122516)	447273.69	
3760565.49	25.14045	(12122516)			
447292.69	3760572.77	24.44799	(12122516)	447339.09	
3760589.08	23.05459	(12122516)			
447365.38	3760597.95	23.69410	(12122516)	447401.65	
3760610.94	24.20159	(12122516)			
447434.11	3760622.34	24.38074	(12122516)	447468.00	
3760634.85	25.89973	(12122516)			
447497.46	3760644.99	28.00027	(14120116)	447521.37	
3760652.59	28.54639	(12122516)			
447547.02	3760662.56	31.28786	(12122516)	447578.85	
3760675.07	33.60133	(12122516)			
447648.27	3760700.75	33.54642	(12122516)	447678.99	

3760711.99	30.84356	(12122516)		
447705.12	3760721.81	27.46045	(12122516)	447665.99
3760779.58	28.15655	(12122516)		
447647.36	3760831.38	35.62131	(12122516)	447648.66
3760893.43	38.76573	(12122516)		
447649.41	3760953.05	35.35942	(12122516)	447648.66
3760987.33	34.82270	(12120416)		
447648.95	3761070.72	30.59672	(12120416)	447649.16
3761155.12	37.72302	(12120416)		
447577.48	3761210.58	38.59533	(14120516)	447650.04
3761221.76	27.33272	(12121716)		
446484.62	3761227.34	21.34338	(14120516)	446553.20
3761230.07	20.43500	(14120516)		
446513.45	3761230.07	20.39092	(14120516)	446297.94
3761172.96	19.58259	(14101709)		
446296.64	3761131.30	22.50666	(14121615)	446296.64
3761111.82	22.34027	(16010610)		
446296.80	3761092.81	21.57094	(16010610)	446295.84
3761072.85	25.20632	(14121615)		
446296.64	3761056.07	27.64001	(16010610)	446296.32
3761037.69	30.04577	(16010610)		
446296.28	3761019.42	28.31883	(16010610)	446295.35
3761001.35	26.77119	(12020616)		
446295.54	3760982.34	23.70244	(16010610)	446295.54
3760963.71	25.54904	(16010610)		
446294.61	3760945.44	26.55114	(16010610)	446295.35
3760926.44	26.75505	(12020616)		
446294.98	3760909.85	25.15969	(16010610)	446294.05
3760894.76	26.14970	(16010610)		
446294.42	3760880.78	28.61062	(16010610)	446294.61
3760867.55	30.60055	(16010610)		
446294.61	3760853.58	32.39581	(12020616)	446294.79
3760835.32	34.39445	(12020616)		
446294.23	3760806.25	27.37414	(12020616)	446391.69
3760794.13	27.95983	(15122816)		
446312.31	3760780.16	19.54718	(12122413)	446292.56
3760779.60	18.95680	(12020616)		
446269.45	3760780.35	18.45854	(12020616)	446411.66
3760789.09	25.36666	(14120116)		
446496.51	3760770.27	18.00048	(14120116)	446584.98
3760778.00	22.32366	(14120116)		
446615.93	3760779.55	21.30463	(14120116)	446705.94
3760782.13	21.90497	(14120116)		
446782.80	3760775.68	23.51185	(14120116)	446784.09
3760707.08	18.48254	(12020616)		
446784.60	3760693.41	18.54385	(12020616)	446791.57
3760568.06	20.26548	(12020616)		
446786.66	3760636.15	18.74043	(12020616)	446793.89
3760530.92	20.47250	(12020616)		
446792.60	3760439.36	15.65059	(12020616)	446796.58
3760367.99	10.68410	(14122316)		

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29  
AQIA\14252 Ops \*\*\* 09/23/22

\*\*\* AERMET - VERSION 16216 \*\*\*  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL4 , VOL5  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,

VOL19 , VOL20 , VOL21 ,  
 VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
 VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF CO IN \*\*  
 MICROGRAMS/M\*\*3

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
446708.26	3760360.35	7.86296			
(14120214)					

\*\*\* AERMOD - VERSION 22112 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29  
 AQIA\14252 Ops \*\*\* 09/23/22  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 10:12:56

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR  
 SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): VOL1 , VOL2 ,  
 VOL3 , VOL4 , VOL5 ,  
 VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
 VOL11 , VOL12 , VOL13 ,  
 VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
 VOL19 , VOL20 , VOL21 ,  
 VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
 VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF CO IN \*\*  
 MICROGRAMS/M\*\*3

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
446880.58	3760419.47	7.80278	(14120216)	446886.26	
3760422.30	7.85041	(14120216)			
446909.21	3760429.01	8.07477	(14120116)	446932.42	
3760438.03	8.69854	(14120116)			
446953.64	3760447.19	8.89574	(14120116)	446975.65	
3760454.95	9.05392	(14120116)			
446990.22	3760460.49	9.49604	(14120116)	447027.12	
3760473.16	10.18824	(14120116)			
447050.87	3760483.61	10.04718	(14120116)	447070.35	
3760490.58	10.03626	(14111116)			
447089.83	3760497.39	10.83717	(14111116)	447109.31	
3760505.78	11.49036	(14111116)			
447130.05	3760512.91	11.10528	(14111116)	447151.27	
3760520.67	10.38925	(14111116)			
447193.40	3760535.71	9.78248	(14111116)	447230.77	
3760550.44	9.30860	(14111116)			
447252.15	3760557.73	8.79848	(14111116)	447273.69	
3760565.49	8.51514	(14111116)			
447292.69	3760572.77	8.45704	(14111116)	447339.09	
3760589.08	8.21058	(14111116)			
447365.38	3760597.95	8.20885	(14111116)	447401.65	
3760610.94	8.49528	(14111116)			
447434.11	3760622.34	8.65297	(14111116)	447468.00	

3760634.85	9.19216	(14111116)		
447497.46	3760644.99	9.42440	(14111116)	447521.37
3760652.59	9.08082	(14111116)		
447547.02	3760662.56	8.92093	(12012416)	447578.85
3760675.07	8.52338	(12012416)		
447648.27	3760700.75	7.26961	(12110116)	447678.99
3760711.99	6.43760	(12110116)		
447705.12	3760721.81	5.81960	(12110116)	447665.99
3760779.58	8.57493	(13042516)		
447647.36	3760831.38	10.25763	(13042516)	447648.66
3760893.43	11.30107	(13042516)		
447649.41	3760953.05	13.17157	(12050316)	447648.66
3760987.33	12.88446	(12121716)		
447648.95	3761070.72	12.15549	(12121716)	447649.16
3761155.12	12.58956	(12042316)		
447577.48	3761210.58	10.99419	(14120516)	447650.04
3761221.76	8.35695	(12121716)		
446484.62	3761227.34	6.73036	(14123016)	446553.20
3761230.07	6.99651	(14123016)		
446513.45	3761230.07	6.91969	(14123016)	446297.94
3761172.96	9.66706	(15112716)		
446296.64	3761131.30	13.35927	(12020616)	446296.64
3761111.82	13.30841	(12020616)		
446296.80	3761092.81	13.14609	(12020616)	446295.84
3761072.85	14.23018	(12020616)		
446296.64	3761056.07	15.94649	(12020616)	446296.32
3761037.69	16.71591	(12020616)		
446296.28	3761019.42	15.65179	(12020616)	446295.35
3761001.35	14.06509	(12020616)		
446295.54	3760982.34	13.89098	(12020616)	446295.54
3760963.71	14.85091	(12020616)		
446294.61	3760945.44	15.23482	(12020616)	446295.35
3760926.44	14.80799	(12020616)		
446294.98	3760909.85	14.33037	(12020616)	446294.05
3760894.76	14.64751	(12020616)		
446294.42	3760880.78	15.56010	(12020616)	446294.61
3760867.55	16.11381	(12020616)		
446294.61	3760853.58	15.51285	(12020616)	446294.79
3760835.32	13.77059	(14120116)		
446294.23	3760806.25	11.21313	(14122616)	446391.69
3760794.13	12.75591	(14120116)		
446312.31	3760780.16	9.86729	(14120216)	446292.56
3760779.60	8.44505	(14120216)		
446269.45	3760780.35	7.87951	(14122616)	446411.66
3760789.09	12.00216	(14120116)		
446496.51	3760770.27	9.88912	(14120116)	446584.98
3760778.00	11.51799	(14120116)		
446615.93	3760779.55	11.88569	(14120116)	446705.94
3760782.13	12.12858	(14120116)		
446782.80	3760775.68	12.06205	(14120116)	446784.09
3760707.08	9.78460	(14120116)		
446784.60	3760693.41	9.61678	(14120116)	446791.57
3760568.06	9.27777	(14120116)		
446786.66	3760636.15	9.11479	(14120116)	446793.89
3760530.92	9.20649	(14120116)		
446792.60	3760439.36	7.01219	(14122616)	446796.58
3760367.99	5.18594	(14120216)		

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29

AQIA\14252 Ops \*\*\* 09/23/22

\*\*\* AERMET - VERSION 16216 \*\*\*

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR

SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): VOL1 , VOL2 ,  
 VOL3 , VOL4 , VOL5  
 VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
 VOL11 , VOL12 , VOL13 ,  
 VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
 VOL19 , VOL20 , VOL21 ,  
 VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
 VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF CO IN  
 MICROGRAMS/M\*\*3 \*\*

X-COORD (M) (M)	Y-COORD (M) CONC (YYMMDDHH)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD
446708.26 (14011416)	3760360.35	3.62048		

\*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29  
 AQIA\14252 Ops \*\*\* 09/23/22  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* \*\*\* 10:12:56

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 1-HR RESULTS \*\*\*

\*\* CONC OF CO IN  
 MICROGRAMS/M\*\*3 \*\*

DATE

GROUP ID	AVERAGE CONC (YYMMDDHH)	NETWORK RECEPTOR (XR, YR,
ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID		

ALL HIGH 1ST HIGH VALUE IS 38.76573 ON 12122516: AT ( 447648.66, 3760893.43,  
 210.57, 210.57, 2.00) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
 GP = GRIDPOLR  
 DC = DISCCART  
 DP = DISCPOLR

\*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29  
 AQIA\14252 Ops \*\*\* 09/23/22  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* \*\*\* 10:12:56

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 8-HR RESULTS \*\*\*

\*\* CONC OF CO IN  
 MICROGRAMS/M\*\*3 \*\*



DATE

NETWORK

GROUP ID ZELEV, ZHILL, ZFLAG)	OF TYPE	AVERAGE CONC GRID-ID	(YYMMDDHH)	RECEPTOR	(XR, YR,
----------------------------------	---------	-------------------------	------------	----------	----------

ALL HIGH 1ST HIGH VALUE IS 16.71591 ON 12020616: AT ( 446296.32, 3761037.69,  
208.38, 208.38, 2.00) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29  
AQIA\14252 Ops \*\*\* 09/23/22

\*\*\* AERMET - VERSION 16216 \*\*\*  
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\*\*\* 10:12:56

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- 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	1442	MEOpen: THRESH_1MIN 1-min ASOS wind speed threshold used	0.50
ME W187	1442	MEOpen: ADJ_U* Option for Stable Low Winds used in AERMET	

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*

\*\*  
\*\*\*\*\*  
\*\*  
\*\* AERMOD Input Produced by:  
\*\* AERMOD View Ver. 11.0.0  
\*\* Lakes Environmental Software Inc.  
\*\* Date: 9/23/2022  
\*\* File: C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29 AQIA\14252 Cons NO2\14252 Cons NO2.ADI  
\*\*

\*\*\*\*\*  
\*\*  
\*\*  
\*\*\*\*\*  
\*\* AERMOD Control Pathway  
\*\*\*\*\*  
\*\*  
\*\*

CO STARTING  
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29 AQIA\14252 Ops  
MODELOPT DFAULT CONC  
AVERTIME 1  
URBANOPT 2035210  
POLLUTID NOX  
FLAGPOLE 2.00  
RUNORNOT RUN  
ERRORFIL "14252 Cons NO2.err"

CO FINISHED

\*\*  
\*\*\*\*\*  
\*\* AERMOD Source Pathway  
\*\*\*\*\*

\*\*  
\*\*

SO STARTING

\*\* Source Location \*\*

\*\* Source ID - Type - X Coord. - Y Coord. \*\*

LOCATION VOL1	VOLUME	446353.525	3761131.686	210.000
LOCATION VOL2	VOLUME	446446.125	3761131.042	210.490
LOCATION VOL3	VOLUME	446539.533	3761130.447	211.160
LOCATION VOL4	VOLUME	446633.040	3761129.753	212.700
LOCATION VOL5	VOLUME	446726.282	3761130.182	213.760
LOCATION VOL6	VOLUME	446765.912	3761130.249	214.410
LOCATION VOL7	VOLUME	446765.912	3761036.279	213.290
LOCATION VOL8	VOLUME	446671.941	3761036.279	211.830
LOCATION VOL9	VOLUME	446577.377	3761036.279	210.730
LOCATION VOL10	VOLUME	446482.812	3761036.279	209.630
LOCATION VOL11	VOLUME	446389.436	3761038.063	208.600
LOCATION VOL12	VOLUME	446353.751	3760945.877	207.050
LOCATION VOL13	VOLUME	446446.532	3760945.282	208.070
LOCATION VOL14	VOLUME	446541.692	3760943.498	209.100
LOCATION VOL15	VOLUME	446633.283	3760942.903	210.100
LOCATION VOL16	VOLUME	446726.658	3760943.498	210.240
LOCATION VOL17	VOLUME	446755.206	3760943.498	210.770
LOCATION VOL18	VOLUME	446748.664	3760849.528	210.000
LOCATION VOL19	VOLUME	446655.883	3760850.122	209.000
LOCATION VOL20	VOLUME	446563.103	3760850.122	208.020
LOCATION VOL21	VOLUME	446470.322	3760860.233	207.480
LOCATION VOL22	VOLUME	446354.346	3761039.252	208.430
LOCATION VOL23	VOLUME	446376.946	3760860.828	207.000
LOCATION VOL24	VOLUME	446353.751	3760857.854	207.000
LOCATION VOL25	VOLUME	446885.787	3761133.683	216.000
LOCATION VOL26	VOLUME	446980.128	3761132.999	216.000
LOCATION VOL27	VOLUME	447072.419	3761132.316	216.000
LOCATION VOL28	VOLUME	447165.393	3761130.948	214.900
LOCATION VOL29	VOLUME	447166.104	3761038.359	214.000

LOCATION VOL30	VOLUME	447072.257	3761040.335	214.000
LOCATION VOL31	VOLUME	446979.399	3761039.347	214.440
LOCATION VOL32	VOLUME	446885.553	3761040.335	214.470
LOCATION VOL33	VOLUME	446886.540	3760946.983	213.100
LOCATION VOL34	VOLUME	446979.893	3760946.983	213.000
LOCATION VOL35	VOLUME	447073.739	3760948.464	213.090
LOCATION VOL36	VOLUME	447168.080	3760946.489	213.000
LOCATION VOL37	VOLUME	447169.561	3760852.148	212.130
LOCATION VOL38	VOLUME	447076.209	3760854.618	213.210
LOCATION VOL39	VOLUME	446979.893	3760854.618	213.010
LOCATION VOL40	VOLUME	446888.516	3760854.124	210.510
LOCATION VOL41	VOLUME	446886.540	3760779.541	210.000
LOCATION VOL42	VOLUME	446980.881	3760778.553	211.450
LOCATION VOL43	VOLUME	447074.233	3760778.059	210.000
LOCATION VOL44	VOLUME	447167.586	3760778.553	210.740
LOCATION VOL45	VOLUME	447261.542	3761130.609	213.790
LOCATION VOL46	VOLUME	447354.654	3761130.611	213.000
LOCATION VOL47	VOLUME	447448.792	3761131.192	212.500
LOCATION VOL48	VOLUME	447542.931	3761129.449	212.880
LOCATION VOL49	VOLUME	447566.175	3761130.030	213.000
LOCATION VOL50	VOLUME	447566.175	3761036.472	212.000
LOCATION VOL51	VOLUME	447473.199	3761037.634	212.000
LOCATION VOL52	VOLUME	447380.222	3761037.053	212.000
LOCATION VOL53	VOLUME	447286.664	3761035.891	213.000
LOCATION VOL54	VOLUME	447260.515	3761035.310	213.000
LOCATION VOL55	VOLUME	447262.258	3760942.333	212.000
LOCATION VOL56	VOLUME	447354.654	3760943.496	211.240
LOCATION VOL57	VOLUME	447447.630	3760945.239	211.000
LOCATION VOL58	VOLUME	447539.445	3760944.077	211.000
LOCATION VOL59	VOLUME	447561.527	3760944.077	211.000
LOCATION VOL60	VOLUME	447551.648	3760851.100	210.000
LOCATION VOL61	VOLUME	447456.928	3760852.262	210.000
LOCATION VOL62	VOLUME	447362.208	3760851.100	210.360
LOCATION VOL63	VOLUME	447269.812	3760849.938	211.040
LOCATION VOL64	VOLUME	447263.420	3760755.799	210.000
LOCATION VOL65	VOLUME	447356.397	3760756.380	210.000
LOCATION VOL66	VOLUME	447450.536	3760756.961	209.310
LOCATION VOL67	VOLUME	447546.418	3760758.704	209.000
LOCATION VOL68	VOLUME	447264.582	3760669.214	209.100
LOCATION VOL69	VOLUME	447358.721	3760702.918	209.080
LOCATION VOL70	VOLUME	447453.441	3760726.163	209.000
LOCATION VOL71	VOLUME	446884.540	3760685.485	210.000
LOCATION VOL72	VOLUME	446978.679	3760685.485	209.010
LOCATION VOL73	VOLUME	447072.237	3760684.904	210.000
LOCATION VOL74	VOLUME	447167.538	3760685.485	210.000
LOCATION VOL75	VOLUME	447169.281	3760618.658	209.280
LOCATION VOL76	VOLUME	447073.980	3760592.509	209.930
LOCATION VOL77	VOLUME	446979.260	3760591.928	209.510
LOCATION VOL78	VOLUME	446885.121	3760590.184	207.000
LOCATION VOL79	VOLUME	446881.054	3760504.181	207.000
LOCATION VOL80	VOLUME	446976.355	3760537.885	208.650
LOCATION VOL81	VOLUME	447071.656	3760573.332	209.830

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.0175578047	5.000	21.684	1.400
SRCPARAM VOL2	0.0175578047	5.000	21.684	1.400
SRCPARAM VOL3	0.0175578047	5.000	21.684	1.400
SRCPARAM VOL4	0.0175578047	5.000	21.684	1.400
SRCPARAM VOL5	0.0175578047	5.000	21.684	1.400
SRCPARAM VOL6	0.0175578047	5.000	21.684	1.400
SRCPARAM VOL7	0.0175578047	5.000	21.684	1.400
SRCPARAM VOL8	0.0175578047	5.000	21.684	1.400
SRCPARAM VOL9	0.0175578047	5.000	21.684	1.400
SRCPARAM VOL10	0.0175578047	5.000	21.684	1.400
SRCPARAM VOL11	0.0175578047	5.000	21.684	1.400
SRCPARAM VOL12	0.0175578047	5.000	21.684	1.400
SRCPARAM VOL13	0.0175578047	5.000	21.684	1.400



SRCPARAM	VOL80	0.0175578047	5.000	21.684	1.400
SRCPARAM	VOL81	0.0175578047	5.000	21.684	1.400
URBANSRC	ALL				

\*\* Variable Emissions Type: "By Hour / Day (HRDOW)"

\*\* Variable Emission Scenario: "Scenario 1"

\*\* WeekDays:

EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	VOL1	HRDOW	1.0	1.0	1.0	1.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Saturday:

EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Sunday:

EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* WeekDays:

EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	VOL2	HRDOW	1.0	1.0	1.0	1.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Saturday:

EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Sunday:

EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* WeekDays:

EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	VOL3	HRDOW	1.0	1.0	1.0	1.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Saturday:

EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Sunday:

EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* WeekDays:

EMISFACT	VOL4	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL4	HRDOW	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	VOL4	HRDOW	1.0	1.0	1.0	1.0	0.0	0.0
EMISFACT	VOL4	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Saturday:

EMISFACT	VOL4	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL4	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL4	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL4	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Sunday:

EMISFACT	VOL4	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL4	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL4	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL4	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0







































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EMISFACT VOL79      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL79      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL79      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT VOL80      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL80      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL80      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL80      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT VOL80      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL80      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL80      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL80      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT VOL80      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL80      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL80      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL80      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT VOL81      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL81      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL81      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL81      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT VOL81      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL81      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL81      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL81      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT VOL81      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL81      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL81      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL81      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
SRCGROUP ALL

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SO FINISHED

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\*\*\*\*\*

\*\* AERMOD Receptor Pathway  
\*\*\*\*\*

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\*\*

RE STARTING  
INCLUDED "14252 Cons NO2.rou"

RE FINISHED  
\*\*  
\*\*\*\*\*

\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*

\*\*  
\*\*

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

\*\* Auto-Generated Plotfiles  
PLOTFILE 1 ALL 1ST "14252 CONS NO2.AD\01H1GALL.PLT" 31  
SUMMFILE "14252 Cons NO2.sum"

OU FINISHED

\*\*

\*\*\*\*\*

\*\* 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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** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.0.0
** Lakes Environmental Software Inc.
** Date: 9/23/2022
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29 AQIA\14252 Cons NO2\14252 Cons
NO2.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**

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CO STARTING

```

TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29 AQIA\14252 Ops
MODELOPT DFAULT CONC
AVERTIME 1
URBANOPT 2035210
POLLUTID NOX
FLAGPOLE 2.00
RUNORNOT RUN
ERRORFIL "14252 Cons NO2.err"

```

CO FINISHED

```

**
*****
** AERMOD Source Pathway
*****
**
**

```

SO STARTING

\*\* Source Location \*\*

\*\* Source ID - Type - X Coord. - Y Coord. \*\*

Source ID	Type	X Coord.	Y Coord.	
LOCATION VOL1	VOLUME	446353.525	3761131.686	210.000
LOCATION VOL2	VOLUME	446446.125	3761131.042	210.490
LOCATION VOL3	VOLUME	446539.533	3761130.447	211.160
LOCATION VOL4	VOLUME	446633.040	3761129.753	212.700
LOCATION VOL5	VOLUME	446726.282	3761130.182	213.760
LOCATION VOL6	VOLUME	446765.912	3761130.249	214.410
LOCATION VOL7	VOLUME	446765.912	3761036.279	213.290
LOCATION VOL8	VOLUME	446671.941	3761036.279	211.830
LOCATION VOL9	VOLUME	446577.377	3761036.279	210.730
LOCATION VOL10	VOLUME	446482.812	3761036.279	209.630
LOCATION VOL11	VOLUME	446389.436	3761038.063	208.600
LOCATION VOL12	VOLUME	446353.751	3760945.877	207.050
LOCATION VOL13	VOLUME	446446.532	3760945.282	208.070
LOCATION VOL14	VOLUME	446541.692	3760943.498	209.100
LOCATION VOL15	VOLUME	446633.283	3760942.903	210.100
LOCATION VOL16	VOLUME	446726.658	3760943.498	210.240
LOCATION VOL17	VOLUME	446755.206	3760943.498	210.770
LOCATION VOL18	VOLUME	446748.664	3760849.528	210.000
LOCATION VOL19	VOLUME	446655.883	3760850.122	209.000
LOCATION VOL20	VOLUME	446563.103	3760850.122	208.020
LOCATION VOL21	VOLUME	446470.322	3760860.233	207.480
LOCATION VOL22	VOLUME	446354.346	3761039.252	208.430
LOCATION VOL23	VOLUME	446376.946	3760860.828	207.000
LOCATION VOL24	VOLUME	446353.751	3760857.854	207.000
LOCATION VOL25	VOLUME	446885.787	3761133.683	216.000
LOCATION VOL26	VOLUME	446980.128	3761132.999	216.000
LOCATION VOL27	VOLUME	447072.419	3761132.316	216.000
LOCATION VOL28	VOLUME	447165.393	3761130.948	214.900

LOCATION VOL29	VOLUME	447166.104	3761038.359	214.000
LOCATION VOL30	VOLUME	447072.257	3761040.335	214.000
LOCATION VOL31	VOLUME	446979.399	3761039.347	214.440
LOCATION VOL32	VOLUME	446885.553	3761040.335	214.470
LOCATION VOL33	VOLUME	446886.540	3760946.983	213.100
LOCATION VOL34	VOLUME	446979.893	3760946.983	213.000
LOCATION VOL35	VOLUME	447073.739	3760948.464	213.090
LOCATION VOL36	VOLUME	447168.080	3760946.489	213.000
LOCATION VOL37	VOLUME	447169.561	3760852.148	212.130
LOCATION VOL38	VOLUME	447076.209	3760854.618	213.210
LOCATION VOL39	VOLUME	446979.893	3760854.618	213.010
LOCATION VOL40	VOLUME	446888.516	3760854.124	210.510
LOCATION VOL41	VOLUME	446886.540	3760779.541	210.000
LOCATION VOL42	VOLUME	446980.881	3760778.553	211.450
LOCATION VOL43	VOLUME	447074.233	3760778.059	210.000
LOCATION VOL44	VOLUME	447167.586	3760778.553	210.740
LOCATION VOL45	VOLUME	447261.542	3761130.609	213.790
LOCATION VOL46	VOLUME	447354.654	3761130.611	213.000
LOCATION VOL47	VOLUME	447448.792	3761131.192	212.500
LOCATION VOL48	VOLUME	447542.931	3761129.449	212.880
LOCATION VOL49	VOLUME	447566.175	3761130.030	213.000
LOCATION VOL50	VOLUME	447566.175	3761036.472	212.000
LOCATION VOL51	VOLUME	447473.199	3761037.634	212.000
LOCATION VOL52	VOLUME	447380.222	3761037.053	212.000
LOCATION VOL53	VOLUME	447286.664	3761035.891	213.000
LOCATION VOL54	VOLUME	447260.515	3761035.310	213.000
LOCATION VOL55	VOLUME	447262.258	3760942.333	212.000
LOCATION VOL56	VOLUME	447354.654	3760943.496	211.240
LOCATION VOL57	VOLUME	447447.630	3760945.239	211.000
LOCATION VOL58	VOLUME	447539.445	3760944.077	211.000
LOCATION VOL59	VOLUME	447561.527	3760944.077	211.000
LOCATION VOL60	VOLUME	447551.648	3760851.100	210.000
LOCATION VOL61	VOLUME	447456.928	3760852.262	210.000
LOCATION VOL62	VOLUME	447362.208	3760851.100	210.360
LOCATION VOL63	VOLUME	447269.812	3760849.938	211.040
LOCATION VOL64	VOLUME	447263.420	3760755.799	210.000
LOCATION VOL65	VOLUME	447356.397	3760756.380	210.000
LOCATION VOL66	VOLUME	447450.536	3760756.961	209.310
LOCATION VOL67	VOLUME	447546.418	3760758.704	209.000
LOCATION VOL68	VOLUME	447264.582	3760669.214	209.100
LOCATION VOL69	VOLUME	447358.721	3760702.918	209.080
LOCATION VOL70	VOLUME	447453.441	3760726.163	209.000
LOCATION VOL71	VOLUME	446884.540	3760685.485	210.000
LOCATION VOL72	VOLUME	446978.679	3760685.485	209.010
LOCATION VOL73	VOLUME	447072.237	3760684.904	210.000
LOCATION VOL74	VOLUME	447167.538	3760685.485	210.000
LOCATION VOL75	VOLUME	447169.281	3760618.658	209.280
LOCATION VOL76	VOLUME	447073.980	3760592.509	209.930
LOCATION VOL77	VOLUME	446979.260	3760591.928	209.510
LOCATION VOL78	VOLUME	446885.121	3760590.184	207.000
LOCATION VOL79	VOLUME	446881.054	3760504.181	207.000
LOCATION VOL80	VOLUME	446976.355	3760537.885	208.650
LOCATION VOL81	VOLUME	447071.656	3760573.332	209.830

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.0175578047	5.000	21.684	1.400
SRCPARAM VOL2	0.0175578047	5.000	21.684	1.400
SRCPARAM VOL3	0.0175578047	5.000	21.684	1.400
SRCPARAM VOL4	0.0175578047	5.000	21.684	1.400
SRCPARAM VOL5	0.0175578047	5.000	21.684	1.400
SRCPARAM VOL6	0.0175578047	5.000	21.684	1.400
SRCPARAM VOL7	0.0175578047	5.000	21.684	1.400
SRCPARAM VOL8	0.0175578047	5.000	21.684	1.400
SRCPARAM VOL9	0.0175578047	5.000	21.684	1.400
SRCPARAM VOL10	0.0175578047	5.000	21.684	1.400
SRCPARAM VOL11	0.0175578047	5.000	21.684	1.400
SRCPARAM VOL12	0.0175578047	5.000	21.684	1.400



SRCPARAM	VOL79	0.0175578047	5.000	21.684	1.400
SRCPARAM	VOL80	0.0175578047	5.000	21.684	1.400
SRCPARAM	VOL81	0.0175578047	5.000	21.684	1.400
URBANSRC	ALL				

\*\* Variable Emissions Type: "By Hour / Day (HRDOW)"

\*\* Variable Emission Scenario: "Scenario 1"

\*\* WeekDays:

EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	VOL1	HRDOW	1.0	1.0	1.0	1.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Saturday:

EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Sunday:

EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* WeekDays:

EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	VOL2	HRDOW	1.0	1.0	1.0	1.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Saturday:

EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Sunday:

EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* WeekDays:

EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	VOL3	HRDOW	1.0	1.0	1.0	1.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Saturday:

EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Sunday:

EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* WeekDays:

EMISFACT	VOL4	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL4	HRDOW	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	VOL4	HRDOW	1.0	1.0	1.0	1.0	0.0	0.0
EMISFACT	VOL4	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Saturday:

EMISFACT	VOL4	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL4	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL4	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL4	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Sunday:

EMISFACT	VOL4	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL4	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL4	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0







































```
EMISFACT VOL79      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL79      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL79      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL79      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT VOL80      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL80      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL80      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL80      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT VOL80      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL80      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL80      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL80      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT VOL80      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL80      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL80      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL80      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT VOL81      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL81      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL81      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL81      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT VOL81      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL81      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL81      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL81      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT VOL81      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL81      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL81      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL81      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
SRCGROUP ALL
```

SO FINISHED

```
**
*****
```

```
** AERMOD Receptor Pathway
*****
```

```
**
**
```

```
RE STARTING
  INCLUDED "14252 Cons NO2.rou"
```

```
RE FINISHED
**
*****
```

```
** AERMOD Meteorology Pathway
*****
```

```
**
**
```

```
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  
\*\* Auto-Generated Plotfiles  
PLOTFILE 1 ALL 1ST "14252 CONS NO2.AD\01H1GALL.PLT" 31  
SUMMFILE "14252 Cons NO2.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 1442 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 1442 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.
- \* Model Uses NO DRY DEPLETION. DDPLETE = F
- \* Model Uses NO WET DEPLETION. WETDPLT = F
- \* Stack-tip Downwash.
- \* Model Accounts for ELEVated Terrain Effects.
- \* Use Calms Processing Routine.
- \* Use Missing Data Processing Routine.
- \* No Exponential Decay.
- \* Model Uses URBAN Dispersion Algorithm for the SBL for 81 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2035210.0 ; Urban Roughness Length = 1.000 m
- \* Urban Roughness Length of 1.0 Meter Used.
- \* 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 Accepts FLAGPOLE Receptor . Heights.
- \* The User Specified a Pollutant Type of: NOX

\*\*Model Calculates 1 Short Term Average(s) of: 1-HR

\*\*This Run Includes: 81 Source(s); 1 Source Group(s); and 81 Receptor(s)

```

with:      0 POINT(s), including
           0 POINTCAP(s) and      0 POINTHOR(s)
and:      81 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 a total of      0 line(s)
and:      0 SWPOINT source(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 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 = 3.6 MB of RAM.

\*\*Input Runstream File:

aermod.inp

\*\*Output Print File:

aermod.out

\*\*Detailed Error/Message File: 14252 Cons

NO2.err

\*\*File for Summary of Results: 14252 Cons

NO2.sum

```

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***
***

```

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION RATE			BASE	RELEASE	INIT.	INIT.
SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY	SZ
ID	SCALAR VARY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	CATS.	BY						

```

VOL1      0  0.17558E-01  446353.5  3761131.7  210.0  5.00  21.68  1.40
YES  HRDOW
VOL2      0  0.17558E-01  446446.1  3761131.0  210.5  5.00  21.68  1.40
YES  HRDOW

```





VOL36	0	0.17558E-01	447168.1	3760946.5	213.0	5.00	21.68	1.40
YES HRDOW								
VOL37	0	0.17558E-01	447169.6	3760852.1	212.1	5.00	21.68	1.40
YES HRDOW								
VOL38	0	0.17558E-01	447076.2	3760854.6	213.2	5.00	21.68	1.40
YES HRDOW								
VOL39	0	0.17558E-01	446979.9	3760854.6	213.0	5.00	21.68	1.40
YES HRDOW								
VOL40	0	0.17558E-01	446888.5	3760854.1	210.5	5.00	21.68	1.40
YES HRDOW								

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	INIT.
SOURCE	URBAN	EMISSION	RATE		ELEV.	HEIGHT	SY	SZ
SCALAR	PART.	(GRAMS/SEC)		X				
ID	CATS.			(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY						

VOL41	0	0.17558E-01	446886.5	3760779.5	210.0	5.00	21.68	1.40
YES HRDOW								
VOL42	0	0.17558E-01	446980.9	3760778.6	211.5	5.00	21.68	1.40
YES HRDOW								
VOL43	0	0.17558E-01	447074.2	3760778.1	210.0	5.00	21.68	1.40
YES HRDOW								
VOL44	0	0.17558E-01	447167.6	3760778.6	210.7	5.00	21.68	1.40
YES HRDOW								
VOL45	0	0.17558E-01	447261.5	3761130.6	213.8	5.00	21.68	1.40
YES HRDOW								
VOL46	0	0.17558E-01	447354.7	3761130.6	213.0	5.00	21.68	1.40
YES HRDOW								
VOL47	0	0.17558E-01	447448.8	3761131.2	212.5	5.00	21.68	1.40
YES HRDOW								
VOL48	0	0.17558E-01	447542.9	3761129.4	212.9	5.00	21.68	1.40
YES HRDOW								
VOL49	0	0.17558E-01	447566.2	3761130.0	213.0	5.00	21.68	1.40
YES HRDOW								
VOL50	0	0.17558E-01	447566.2	3761036.5	212.0	5.00	21.68	1.40
YES HRDOW								
VOL51	0	0.17558E-01	447473.2	3761037.6	212.0	5.00	21.68	1.40
YES HRDOW								
VOL52	0	0.17558E-01	447380.2	3761037.1	212.0	5.00	21.68	1.40
YES HRDOW								
VOL53	0	0.17558E-01	447286.7	3761035.9	213.0	5.00	21.68	1.40
YES HRDOW								
VOL54	0	0.17558E-01	447260.5	3761035.3	213.0	5.00	21.68	1.40
YES HRDOW								
VOL55	0	0.17558E-01	447262.3	3760942.3	212.0	5.00	21.68	1.40
YES HRDOW								
VOL56	0	0.17558E-01	447354.7	3760943.5	211.2	5.00	21.68	1.40
YES HRDOW								
VOL57	0	0.17558E-01	447447.6	3760945.2	211.0	5.00	21.68	1.40
YES HRDOW								
VOL58	0	0.17558E-01	447539.4	3760944.1	211.0	5.00	21.68	1.40
YES HRDOW								

VOL59	0	0.17558E-01	447561.5	3760944.1	211.0	5.00	21.68	1.40
YES HRDOW								
VOL60	0	0.17558E-01	447551.6	3760851.1	210.0	5.00	21.68	1.40
YES HRDOW								
VOL61	0	0.17558E-01	447456.9	3760852.3	210.0	5.00	21.68	1.40
YES HRDOW								
VOL62	0	0.17558E-01	447362.2	3760851.1	210.4	5.00	21.68	1.40
YES HRDOW								
VOL63	0	0.17558E-01	447269.8	3760849.9	211.0	5.00	21.68	1.40
YES HRDOW								
VOL64	0	0.17558E-01	447263.4	3760755.8	210.0	5.00	21.68	1.40
YES HRDOW								
VOL65	0	0.17558E-01	447356.4	3760756.4	210.0	5.00	21.68	1.40
YES HRDOW								
VOL66	0	0.17558E-01	447450.5	3760757.0	209.3	5.00	21.68	1.40
YES HRDOW								
VOL67	0	0.17558E-01	447546.4	3760758.7	209.0	5.00	21.68	1.40
YES HRDOW								
VOL68	0	0.17558E-01	447264.6	3760669.2	209.1	5.00	21.68	1.40
YES HRDOW								
VOL69	0	0.17558E-01	447358.7	3760702.9	209.1	5.00	21.68	1.40
YES HRDOW								
VOL70	0	0.17558E-01	447453.4	3760726.2	209.0	5.00	21.68	1.40
YES HRDOW								
VOL71	0	0.17558E-01	446884.5	3760685.5	210.0	5.00	21.68	1.40
YES HRDOW								
VOL72	0	0.17558E-01	446978.7	3760685.5	209.0	5.00	21.68	1.40
YES HRDOW								
VOL73	0	0.17558E-01	447072.2	3760684.9	210.0	5.00	21.68	1.40
YES HRDOW								
VOL74	0	0.17558E-01	447167.5	3760685.5	210.0	5.00	21.68	1.40
YES HRDOW								
VOL75	0	0.17558E-01	447169.3	3760618.7	209.3	5.00	21.68	1.40
YES HRDOW								
VOL76	0	0.17558E-01	447074.0	3760592.5	209.9	5.00	21.68	1.40
YES HRDOW								
VOL77	0	0.17558E-01	446979.3	3760591.9	209.5	5.00	21.68	1.40
YES HRDOW								
VOL78	0	0.17558E-01	446885.1	3760590.2	207.0	5.00	21.68	1.40
YES HRDOW								
VOL79	0	0.17558E-01	446881.1	3760504.2	207.0	5.00	21.68	1.40
YES HRDOW								
VOL80	0	0.17558E-01	446976.4	3760537.9	208.7	5.00	21.68	1.40
YES HRDOW								

```

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION RATE			BASE	RELEASE	INIT.	INIT.
SOURCE	URBAN	EMISSION RATE			ELEV.	HEIGHT	SY	SZ
ID	PART.	(GRAMS/SEC)	X	Y	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	SCALAR VARY	CATS.	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
		BY						

VOL81	0	0.17558E-01	447071.7	3760573.3	209.8	5.00	21.68	1.40
YES HRDOW								

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID	SOURCE IDs
ALL VOL7	VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL8 ,
	VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 ,
	VOL17 , VOL18 , VOL19 , VOL20 , VOL21 , VOL22 , VOL23 , VOL24 ,
	VOL25 , VOL26 , VOL27 , VOL28 , VOL29 , VOL30 , VOL31 , VOL32 ,
	VOL33 , VOL34 , VOL35 , VOL36 , VOL37 , VOL38 , VOL39 , VOL40 ,
	VOL41 , VOL42 , VOL43 , VOL44 , VOL45 , VOL46 , VOL47 , VOL48 ,
	VOL49 , VOL50 , VOL51 , VOL52 , VOL53 , VOL54 , VOL55 , VOL56 ,
	VOL57 , VOL58 , VOL59 , VOL60 , VOL61 , VOL62 , VOL63 , VOL64 ,
	VOL65 , VOL66 , VOL67 , VOL68 , VOL69 , VOL70 , VOL71 , VOL72 ,
	VOL73 , VOL74 , VOL75 , VOL76 , VOL77 , VOL78 , VOL79 , VOL80 ,
	VOL81 ,

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

URBAN ID	URBAN POP	SOURCE IDs
VOL8	2035210. VOL6	VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL7 ,
	VOL9	VOL10 , VOL11 , VOL12 , VOL13 , VOL14 ,

VOL15 , VOL16 ,  
VOL17 , VOL18 , VOL19 , VOL20 , VOL21 , VOL22 ,  
VOL23 , VOL24 ,  
VOL25 , VOL26 , VOL27 , VOL28 , VOL29 , VOL30 ,  
VOL31 , VOL32 ,  
VOL33 , VOL34 , VOL35 , VOL36 , VOL37 , VOL38 ,  
VOL39 , VOL40 ,  
VOL41 , VOL42 , VOL43 , VOL44 , VOL45 , VOL46 ,  
VOL47 , VOL48 ,  
VOL49 , VOL50 , VOL51 , VOL52 , VOL53 , VOL54 ,  
VOL55 , VOL56 ,  
VOL57 , VOL58 , VOL59 , VOL60 , VOL61 , VOL62 ,  
VOL63 , VOL64 ,  
VOL65 , VOL66 , VOL67 , VOL68 , VOL69 , VOL70 ,  
VOL71 , VOL72 ,  
VOL73 , VOL74 , VOL75 , VOL76 , VOL77 , VOL78 ,  
VOL79 , VOL80 ,

VOL81 ,

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL1 ; SOURCE TYPE = VOLUME :

SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
DAY OF WEEK = WEEKDAY											
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	
	.1000E+01	15	.1000E+01	16	.1000E+01						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						
DAY OF WEEK = SATURDAY											
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						
DAY OF WEEK = SUNDAY											
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL2 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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AQIA\14252 Ops \*\*\* 09/23/22  
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\*\*\* 10:06:25

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL3 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL4 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL5 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL6 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL7 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR



DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL8 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL9 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL10 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00

.0000E+00 23 .0000E+00 24 .0000E+00  
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\*\*\* 10:06:25

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL11 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL12 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL13 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL14 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14

.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL15 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL16 ; SOURCE TYPE = VOLUME :

HR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL17 ; SOURCE TYPE = VOLUME :  
HR HOUR SCALAR HR HOUR SCALAR HR HOUR SCALAR HR HOUR SCALAR HR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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AQIA\14252 Ops \*\*\* 09/23/22  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL18 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL19 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL20 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL21 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6



.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL22 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL23 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL24 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK

(HRDOW) \*

SOURCE ID = VOL25 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL26 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL27 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL28 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL29 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL30 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22

.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL31 ; SOURCE TYPE = VOLUME :

Hour SCALAR Hour SCALAR Hour SCALAR Hour SCALAR Hour SCALAR Hour
SCALAR Hour SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL32 ; SOURCE TYPE = VOLUME :

Hour SCALAR Hour SCALAR Hour SCALAR Hour SCALAR Hour SCALAR Hour
SCALAR Hour SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL33 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* 10:06:25

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL34 ; SOURCE TYPE = VOLUME :

Hourly emission rate scalars for source VOL34, showing hours 1-24 and their corresponding scalar values.

DAY OF WEEK = WEEKDAY

Hourly emission rate scalars for Weekdays (Days 1-24). Values range from 0.0000E+00 to 0.1000E+01.

DAY OF WEEK = SATURDAY

Hourly emission rate scalars for Saturdays (Days 1-24). All values are 0.0000E+00.

DAY OF WEEK = SUNDAY

Hourly emission rate scalars for Sundays (Days 1-24). All values are 0.0000E+00.

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL35 ; SOURCE TYPE = VOLUME :

Hourly emission rate scalars for source VOL35, showing hours 1-24 and their corresponding scalar values.

DAY OF WEEK = WEEKDAY

Hourly emission rate scalars for Weekdays (Days 1-24). Values range from 0.0000E+00 to 0.1000E+01.

DAY OF WEEK = SATURDAY

Hourly emission rate scalars for Saturdays (Days 1-24). All values are 0.0000E+00.

DAY OF WEEK = SUNDAY

Hourly emission rate scalars for Sundays (Days 1-24). All values are 0.0000E+00.



17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00  
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AQIA\14252 Ops \*\*\* 09/23/22  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL36 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL37 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14

.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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AQIA\14252 Ops \*\*\* 09/23/22

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL38 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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AQIA\14252 Ops \*\*\* 09/23/22

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL39 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00

9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL40 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL41 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL42 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL43 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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AQIA\14252 Ops \*\*\* 09/23/22
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\*\*\* 10:06:25

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL44 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6

.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL45 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL46 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* 10:06:25

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL47 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL48 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL49 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*



\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL50 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL51 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL52 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	
	.1000E+01	15	.1000E+01	16	.1000E+01						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL53 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	
	.1000E+01	15	.1000E+01	16	.1000E+01						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL54 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----  
-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL55 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----  
-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL56 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL57 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR

SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL58 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL59 ; SOURCE TYPE = VOLUME :
HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

Table with 12 columns (1-12) and 6 rows of scalar values for Weekday. Values range from .0000E+00 to .1000E+01.

DAY OF WEEK = SATURDAY

Table with 12 columns (1-12) and 6 rows of scalar values for Saturday. All values are .0000E+00.

DAY OF WEEK = SUNDAY

Table with 12 columns (1-12) and 6 rows of scalar values for Sunday. All values are .0000E+00.

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL60 ; SOURCE TYPE = VOLUME :
HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

Table with 12 columns (1-12) and 6 rows of scalar values for Weekday. Values range from .0000E+00 to .1000E+01.

DAY OF WEEK = SATURDAY

Table with 12 columns (1-12) and 6 rows of scalar values for Saturday. All values are .0000E+00.

DAY OF WEEK = SUNDAY

Table with 12 columns (1-12) and 3 rows of scalar values for Sunday. Values range from .0000E+00 to .1000E+01.

.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00  
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AQIA\14252 Ops \*\*\* 09/23/22  
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\*\*\* 10:06:25

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL61 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL62 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL63 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL64 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6



.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL65 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL66 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL67 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL68 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* 10:06:25

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL69 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* \*\*\* 10:06:25

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL70 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL71 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL72 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL73 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	
	.1000E+01	15	.1000E+01	16	.1000E+01						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL74 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	
	.1000E+01	15	.1000E+01	16	.1000E+01						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL75 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL76 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00

.0000E+00 23 .0000E+00 24 .0000E+00  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL77 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL78 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00



17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL79 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL80 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14

.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL81 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 446880.6, 3760419.5, 207.0, 207.0, 2.0); ( 446886.3, 3760422.3, 207.0, 207.0, 2.0);  
( 446909.2, 3760429.0, 207.0, 207.0, 2.0); ( 446932.4, 3760438.0, 207.3, 207.3, 2.0);  
( 446953.6, 3760447.2, 207.4, 207.4, 2.0); ( 446975.6, 3760454.9, 207.9, 207.9, 2.0);  
( 446990.2, 3760460.5, 208.0, 208.0, 2.0); ( 447027.1, 3760473.2, 208.0, 208.0, 2.0);  
( 447050.9, 3760483.6, 208.4, 208.4, 2.0); ( 447070.3, 3760490.6, 209.0, 209.0, 2.0);  
( 447089.8, 3760497.4, 209.0, 209.0, 2.0); ( 447109.3, 3760505.8, 208.9, 208.9, 2.0);  
( 447130.0, 3760512.9, 208.9, 208.9, 2.0); ( 447151.3, 3760520.7, 209.0, 209.0, 2.0);  
( 447193.4, 3760535.7, 208.6, 208.6, 2.0); ( 447230.8, 3760550.4, 208.1, 208.1, 2.0);  
( 447252.1, 3760557.7, 208.0, 208.0, 2.0); ( 447273.7, 3760565.5, 208.0, 208.0, 2.0);  
( 447292.7, 3760572.8, 208.0, 208.0, 2.0); ( 447339.1, 3760589.1, 208.0, 208.0, 2.0);  
( 447365.4, 3760597.9, 208.0, 208.0, 2.0); ( 447401.6, 3760610.9, 208.1, 208.1, 2.0);  
( 447434.1, 3760622.3, 208.0, 208.0, 2.0); ( 447468.0, 3760634.8, 208.0, 208.0, 2.0);  
( 447497.5, 3760645.0, 208.3, 208.3, 2.0); ( 447521.4, 3760652.6, 208.5, 208.5, 2.0);  
( 447547.0, 3760662.6, 208.9, 208.9, 2.0); ( 447578.8, 3760675.1, 209.0, 209.0, 2.0);  
( 447648.3, 3760700.8, 209.0, 209.0, 2.0); ( 447679.0, 3760712.0, 209.0, 209.0, 2.0);  
( 447705.1, 3760721.8, 209.0, 209.0, 2.0); ( 447666.0, 3760779.6, 209.8, 209.8, 2.0);  
( 447647.4, 3760831.4, 210.0, 210.0, 2.0); ( 447648.7, 3760893.4, 210.6, 210.6, 2.0);  
( 447649.4, 3760953.0, 211.0, 211.0, 2.0); ( 447648.7, 3760987.3, 211.7, 211.7, 2.0);  
( 447649.0, 3761070.7, 212.5, 212.5, 2.0); ( 447649.2, 3761155.1, 213.0, 213.0, 2.0);  
( 447577.5, 3761210.6, 213.1, 213.1, 2.0); ( 447650.0, 3761221.8, 214.0, 214.0, 2.0);  
( 446484.6, 3761227.3, 212.0, 212.0, 2.0); ( 446553.2, 3761230.1, 212.6, 212.6, 2.0);  
( 446513.5, 3761230.1, 212.0, 212.0, 2.0); ( 446297.9, 3761173.0, 210.0, 210.0, 2.0);  
( 446296.6, 3761131.3, 209.9, 209.9, 2.0); ( 446296.6, 3761111.8, 209.7, 209.7, 2.0);  
( 446296.8, 3761092.8, 209.2, 209.2, 2.0); ( 446295.8, 3761072.8, 209.0, 209.0, 2.0);  
( 446296.6, 3761056.1, 209.0, 209.0, 2.0); ( 446296.3, 3761037.7, 208.4, 208.4, 2.0);  
( 446296.3, 3761019.4, 208.0, 208.0, 2.0); ( 446295.3, 3761001.3, 208.0, 208.0, 2.0);  
( 446295.5, 3760982.3, 207.5, 207.5, 2.0); ( 446295.5, 3760963.7, 207.0, 207.0, 2.0);  
( 446294.6, 3760945.4, 207.0, 207.0, 2.0); ( 446295.3, 3760926.4, 207.0, 207.0, 2.0);  
( 446295.0, 3760909.8, 207.0, 207.0, 2.0); ( 446294.0, 3760894.8, 207.0, 207.0, 2.0);  
( 446294.4, 3760880.8, 207.0, 207.0, 2.0); ( 446294.6, 3760867.5, 206.8, 206.8, 2.0);  
( 446294.6, 3760853.6, 206.4, 206.4, 2.0); ( 446294.8, 3760835.3, 206.1, 206.1, 2.0);  
( 446294.2, 3760806.2, 206.0, 206.0, 2.0); ( 446391.7, 3760794.1, 207.0, 207.0, 2.0);  
( 446312.3, 3760780.2, 206.0, 206.0, 2.0); ( 446292.6, 3760779.6, 206.0, 206.0, 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 22112 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29
AQIA\14252 Ops ***                  09/23/22
*** AERMET - VERSION 16216 ***
***                                     ***                               10:06:25

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 ,
VOL3 , VOL4 , VOL5
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,
VOL11 , VOL12 , VOL13 ,
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,
VOL19 , VOL20 , VOL21 ,
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,
VOL27 , VOL28 , . . . ,

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\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF NOX IN \*\*  
MICROGRAMS/M\*\*3

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
446880.58	3760419.47	15.33829	(14121616)	446886.26	
3760422.30	15.71715	(14121616)			
446909.21	3760429.01	17.83390	(15122816)	446932.42	
3760438.03	18.04135	(14120116)			
446953.64	3760447.19	16.72864	(12122413)	446975.65	
3760454.95	18.15815	(15122816)			
446990.22	3760460.49	21.63648	(15122816)	447027.12	
3760473.16	25.10728	(14120116)			
447050.87	3760483.61	21.85014	(14120116)	447070.35	
3760490.58	21.46167	(14120116)			
447089.83	3760497.39	26.64738	(15122816)	447109.31	
3760505.78	31.48677	(14120116)			
447130.05	3760512.91	29.00903	(14120116)	447151.27	
3760520.67	23.16862	(12122516)			
447193.40	3760535.71	24.90941	(12122516)	447230.77	
3760550.44	23.05279	(12122516)			
447252.15	3760557.73	22.78678	(12122516)	447273.69	
3760565.49	22.53230	(12122516)			
447292.69	3760572.77	21.91167	(12122516)	447339.09	
3760589.08	20.66284	(12122516)			
447365.38	3760597.95	21.23600	(12122516)	447401.65	
3760610.94	21.69084	(12122516)			
447434.11	3760622.34	21.85140	(12122516)	447468.00	
3760634.85	23.21280	(12122516)			
447497.46	3760644.99	25.09543	(14120116)	447521.37	
3760652.59	25.58490	(12122516)			
447547.02	3760662.56	28.04195	(12122516)	447578.85	
3760675.07	30.11542	(12122516)			
447648.27	3760700.75	30.06621	(12122516)	447678.99	
3760711.99	27.64375	(12122516)			
447705.12	3760721.81	24.61162	(12122516)	447665.99	



\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF NOX IN  
MICROGRAMS/M\*\*3 \*\*

X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD  
(M) CONC (YYMMDDHH)

446708.26 3760360.35 7.04723  
(14120214)

\*\*\* AERMOD - VERSION 22112 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29  
AQIA\14252 Ops \*\*\* 09/23/22  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:06:25

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 1-HR RESULTS \*\*\*

\*\* CONC OF NOX IN  
MICROGRAMS/M\*\*3 \*\*

DATE

NETWORK

GROUP ID AVERAGE CONC (YYMMDDHH) RECEPTOR (XR, YR,  
ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID

ALL HIGH 1ST HIGH VALUE IS 34.74405 ON 12122516: AT ( 447648.66, 3760893.43,  
210.57, 210.57, 2.00) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

\*\*\* AERMOD - VERSION 22112 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29  
AQIA\14252 Ops \*\*\* 09/23/22  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:06:25

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- 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 1442 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 1442 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*

```

**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.0.0
** Lakes Environmental Software Inc.
** Date: 9/23/2022
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29 AQIA\14252 Cons PM10\14252 Cons
PM10.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**

```

```

CO STARTING
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29 AQIA\14252 Ops
MODELOPT DFAULT CONC
AVERTIME 24
URBANOPT 2035210
POLLUTID PM_10
FLAGPOLE 2.00
RUNORNOT RUN
ERRORFIL "14252 Cons PM10.err"

```

CO FINISHED

```

**
*****
** AERMOD Source Pathway
*****
**
**

```

SO STARTING

\*\* Source Location \*\*

\*\* Source ID - Type - X Coord. - Y Coord. \*\*

Source ID	Type	X Coord.	Y Coord.
LOCATION VOL1	VOLUME	446353.525	3761131.686
LOCATION VOL2	VOLUME	446446.125	3761131.042
LOCATION VOL3	VOLUME	446539.533	3761130.447
LOCATION VOL5	VOLUME	446726.282	3761130.182
LOCATION VOL4	VOLUME	446633.040	3761129.753
LOCATION VOL6	VOLUME	446765.912	3761130.249
LOCATION VOL7	VOLUME	446765.912	3761036.279
LOCATION VOL8	VOLUME	446671.941	3761036.279
LOCATION VOL9	VOLUME	446577.377	3761036.279
LOCATION VOL10	VOLUME	446482.812	3761036.279
LOCATION VOL11	VOLUME	446389.436	3761038.063
LOCATION VOL12	VOLUME	446353.751	3760945.877
LOCATION VOL13	VOLUME	446446.532	3760945.282
LOCATION VOL14	VOLUME	446541.692	3760943.498
LOCATION VOL15	VOLUME	446633.283	3760942.903
LOCATION VOL16	VOLUME	446726.658	3760943.498
LOCATION VOL17	VOLUME	446755.206	3760943.498
LOCATION VOL18	VOLUME	446748.664	3760849.528
LOCATION VOL19	VOLUME	446655.883	3760850.122
LOCATION VOL20	VOLUME	446563.103	3760850.122
LOCATION VOL21	VOLUME	446470.322	3760860.233
LOCATION VOL22	VOLUME	446354.346	3761039.252
LOCATION VOL23	VOLUME	446376.946	3760860.828
LOCATION VOL24	VOLUME	446353.751	3760857.854
LOCATION VOL25	VOLUME	446885.787	3761133.683
LOCATION VOL26	VOLUME	446980.128	3761132.999
LOCATION VOL27	VOLUME	447072.419	3761132.316
LOCATION VOL28	VOLUME	447165.393	3761130.948
LOCATION VOL29	VOLUME	447166.104	3761038.359

LOCATION VOL30	VOLUME	447072.257	3761040.335	214.000
LOCATION VOL31	VOLUME	446979.399	3761039.347	214.440
LOCATION VOL32	VOLUME	446885.553	3761040.335	214.470
LOCATION VOL33	VOLUME	446886.540	3760946.983	213.100
LOCATION VOL34	VOLUME	446979.893	3760946.983	213.000
LOCATION VOL35	VOLUME	447073.739	3760948.464	213.090
LOCATION VOL36	VOLUME	447168.080	3760946.489	213.000
LOCATION VOL37	VOLUME	447169.561	3760852.148	212.130
LOCATION VOL38	VOLUME	447076.209	3760854.618	213.210
LOCATION VOL39	VOLUME	446979.893	3760854.618	213.010
LOCATION VOL40	VOLUME	446888.516	3760854.124	210.510
LOCATION VOL41	VOLUME	446886.540	3760779.541	210.000
LOCATION VOL42	VOLUME	446980.881	3760778.553	211.450
LOCATION VOL43	VOLUME	447074.233	3760778.059	210.000
LOCATION VOL44	VOLUME	447167.586	3760778.553	210.740
LOCATION VOL45	VOLUME	447261.542	3761130.609	213.790
LOCATION VOL46	VOLUME	447354.654	3761130.611	213.000
LOCATION VOL47	VOLUME	447448.792	3761131.192	212.500
LOCATION VOL48	VOLUME	447542.931	3761129.449	212.880
LOCATION VOL49	VOLUME	447566.175	3761130.030	213.000
LOCATION VOL50	VOLUME	447566.175	3761036.472	212.000
LOCATION VOL51	VOLUME	447473.199	3761037.634	212.000
LOCATION VOL52	VOLUME	447380.222	3761037.053	212.000
LOCATION VOL53	VOLUME	447286.664	3761035.891	213.000
LOCATION VOL54	VOLUME	447260.515	3761035.310	213.000
LOCATION VOL55	VOLUME	447262.258	3760942.333	212.000
LOCATION VOL56	VOLUME	447354.654	3760943.496	211.240
LOCATION VOL57	VOLUME	447447.630	3760945.239	211.000
LOCATION VOL58	VOLUME	447539.445	3760944.077	211.000
LOCATION VOL59	VOLUME	447561.527	3760944.077	211.000
LOCATION VOL60	VOLUME	447551.648	3760851.100	210.000
LOCATION VOL61	VOLUME	447456.928	3760852.262	210.000
LOCATION VOL62	VOLUME	447362.208	3760851.100	210.360
LOCATION VOL63	VOLUME	447269.812	3760849.938	211.040
LOCATION VOL64	VOLUME	447263.420	3760755.799	210.000
LOCATION VOL65	VOLUME	447356.397	3760756.380	210.000
LOCATION VOL66	VOLUME	447450.536	3760756.961	209.310
LOCATION VOL67	VOLUME	447546.418	3760758.704	209.000
LOCATION VOL68	VOLUME	447264.582	3760669.214	209.100
LOCATION VOL69	VOLUME	447358.721	3760702.918	209.080
LOCATION VOL70	VOLUME	447453.441	3760726.163	209.000
LOCATION VOL71	VOLUME	446884.540	3760685.485	210.000
LOCATION VOL72	VOLUME	446978.679	3760685.485	209.010
LOCATION VOL73	VOLUME	447072.237	3760684.904	210.000
LOCATION VOL74	VOLUME	447167.538	3760685.485	210.000
LOCATION VOL75	VOLUME	447169.281	3760618.658	209.280
LOCATION VOL76	VOLUME	447073.980	3760592.509	209.930
LOCATION VOL77	VOLUME	446979.260	3760591.928	209.510
LOCATION VOL78	VOLUME	446885.121	3760590.184	207.000
LOCATION VOL79	VOLUME	446881.054	3760504.181	207.000
LOCATION VOL80	VOLUME	446976.355	3760537.885	208.650
LOCATION VOL81	VOLUME	447071.656	3760573.332	209.830
LOCATION AREA1	AREA	446307.790	3760807.680	206.000
LOCATION AREA2	AREA	446842.340	3760732.660	210.000
LOCATION AREA3	AREA	446837.290	3760571.920	207.000
LOCATION AREA4	AREA	446836.660	3760494.390	207.000
LOCATION AREA5	AREA	446833.510	3760468.540	207.000
LOCATION AREA6	AREA	447213.930	3760700.730	210.000
LOCATION AREA7	AREA	447214.700	3760668.620	209.220
LOCATION AREA8	AREA	447216.070	3760627.170	209.000
LOCATION AREA9	AREA	447216.000	3760609.970	209.000

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.0003943734	5.000	21.684	1.400
SRCPARAM VOL2	0.0003943734	5.000	21.684	1.400
SRCPARAM VOL3	0.0003943734	5.000	21.684	1.400
SRCPARAM VOL5	0.0003943734	5.000	21.684	1.400



SRCPARAM	VOL71	0.0003943734	5.000	21.684	1.400		
SRCPARAM	VOL72	0.0003943734	5.000	21.684	1.400		
SRCPARAM	VOL73	0.0003943734	5.000	21.684	1.400		
SRCPARAM	VOL74	0.0003943734	5.000	21.684	1.400		
SRCPARAM	VOL75	0.0003943734	5.000	21.684	1.400		
SRCPARAM	VOL76	0.0003943734	5.000	21.684	1.400		
SRCPARAM	VOL77	0.0003943734	5.000	21.684	1.400		
SRCPARAM	VOL78	0.0003943734	5.000	21.684	1.400		
SRCPARAM	VOL79	0.0003943734	5.000	21.684	1.400		
SRCPARAM	VOL80	0.0003943734	5.000	21.684	1.400		
SRCPARAM	VOL81	0.0003943734	5.000	21.684	1.400		
SRCPARAM	AREA1	2.5356E-07	0.000	489.160	368.130	0.000	1.000
SRCPARAM	AREA2	2.5356E-07	0.000	371.910	444.400	0.000	1.000
SRCPARAM	AREA3	2.5356E-07	0.000	378.220	157.590	0.000	1.000
SRCPARAM	AREA4	2.5356E-07	0.000	184.070	75.640	0.000	1.000
SRCPARAM	AREA5	2.5356E-07	0.000	132.380	22.690	0.000	1.000
SRCPARAM	AREA6	2.5356E-07	0.000	386.390	473.160	0.000	1.000
SRCPARAM	AREA7	2.5356E-07	0.000	286.030	30.970	0.000	1.000
SRCPARAM	AREA8	2.5356E-07	0.000	180.820	40.080	0.000	1.000
SRCPARAM	AREA9	2.5356E-07	0.000	130.290	16.880	0.000	1.000
URBANSRC	ALL						

\*\* Variable Emissions Type: "By Hour / Day (HRDOW)"

\*\* Variable Emission Scenario: "Scenario 1"

\*\* WeekDays:

EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	VOL1	HRDOW	1.0	1.0	1.0	1.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Saturday:

EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Sunday:

EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* WeekDays:

EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	VOL2	HRDOW	1.0	1.0	1.0	1.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Saturday:

EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Sunday:

EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* WeekDays:

EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	VOL3	HRDOW	1.0	1.0	1.0	1.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Saturday:

EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Sunday:

EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
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EMISFACT AREA6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT AREA6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT AREA7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA7      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT AREA7      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT AREA7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT AREA7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT AREA7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT AREA8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA8      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT AREA8      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT AREA8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT AREA8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT AREA8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT AREA9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA9      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT AREA9      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT AREA9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT AREA9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT AREA9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
SRCGROUP ALL

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SO FINISHED

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\*\* AERMOD Receptor Pathway  
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RE STARTING  
INCLUDED "14252 Cons PM10.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

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\*\*\*\*\*

\*\* AERMOD Output Pathway

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\*\*

OU STARTING

RECTABLE ALLAVE 1ST  
RECTABLE 24 1ST

\*\* Auto-Generated Plotfiles

PLOTFILE 24 ALL 1ST "14252 CONS PM10.AD\24H1GALL.PLT" 31  
SUMMFILE "14252 Cons PM10.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

\*\*

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.0.0
** Lakes Environmental Software Inc.
** Date: 9/23/2022
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29 AQIA\14252 Cons PM10\14252 Cons
PM10.ADI
**

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*****
**
**
*****
** AERMOD Control Pathway
*****
**
**

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CO STARTING
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29 AQIA\14252 Ops
MODELOPT DFAULT CONC
AVERTIME 24
URBANOPT 2035210
POLLUTID PM_10
FLAGPOLE 2.00
RUNORNOT RUN
ERRORFIL "14252 Cons PM10.err"

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CO FINISHED

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**
*****
** AERMOD Source Pathway
*****
**
**

```

SO STARTING

\*\* Source Location \*\*

\*\* Source ID - Type - X Coord. - Y Coord. \*\*

Source ID	Type	X Coord.	Y Coord.	
LOCATION VOL1	VOLUME	446353.525	3761131.686	210.000
LOCATION VOL2	VOLUME	446446.125	3761131.042	210.490
LOCATION VOL3	VOLUME	446539.533	3761130.447	211.160
LOCATION VOL5	VOLUME	446726.282	3761130.182	213.760
LOCATION VOL4	VOLUME	446633.040	3761129.753	212.700
LOCATION VOL6	VOLUME	446765.912	3761130.249	214.410
LOCATION VOL7	VOLUME	446765.912	3761036.279	213.290
LOCATION VOL8	VOLUME	446671.941	3761036.279	211.830
LOCATION VOL9	VOLUME	446577.377	3761036.279	210.730
LOCATION VOL10	VOLUME	446482.812	3761036.279	209.630
LOCATION VOL11	VOLUME	446389.436	3761038.063	208.600
LOCATION VOL12	VOLUME	446353.751	3760945.877	207.050
LOCATION VOL13	VOLUME	446446.532	3760945.282	208.070
LOCATION VOL14	VOLUME	446541.692	3760943.498	209.100
LOCATION VOL15	VOLUME	446633.283	3760942.903	210.100
LOCATION VOL16	VOLUME	446726.658	3760943.498	210.240
LOCATION VOL17	VOLUME	446755.206	3760943.498	210.770
LOCATION VOL18	VOLUME	446748.664	3760849.528	210.000
LOCATION VOL19	VOLUME	446655.883	3760850.122	209.000
LOCATION VOL20	VOLUME	446563.103	3760850.122	208.020
LOCATION VOL21	VOLUME	446470.322	3760860.233	207.480
LOCATION VOL22	VOLUME	446354.346	3761039.252	208.430
LOCATION VOL23	VOLUME	446376.946	3760860.828	207.000
LOCATION VOL24	VOLUME	446353.751	3760857.854	207.000
LOCATION VOL25	VOLUME	446885.787	3761133.683	216.000
LOCATION VOL26	VOLUME	446980.128	3761132.999	216.000
LOCATION VOL27	VOLUME	447072.419	3761132.316	216.000
LOCATION VOL28	VOLUME	447165.393	3761130.948	214.900

LOCATION VOL29	VOLUME	447166.104	3761038.359	214.000
LOCATION VOL30	VOLUME	447072.257	3761040.335	214.000
LOCATION VOL31	VOLUME	446979.399	3761039.347	214.440
LOCATION VOL32	VOLUME	446885.553	3761040.335	214.470
LOCATION VOL33	VOLUME	446886.540	3760946.983	213.100
LOCATION VOL34	VOLUME	446979.893	3760946.983	213.000
LOCATION VOL35	VOLUME	447073.739	3760948.464	213.090
LOCATION VOL36	VOLUME	447168.080	3760946.489	213.000
LOCATION VOL37	VOLUME	447169.561	3760852.148	212.130
LOCATION VOL38	VOLUME	447076.209	3760854.618	213.210
LOCATION VOL39	VOLUME	446979.893	3760854.618	213.010
LOCATION VOL40	VOLUME	446888.516	3760854.124	210.510
LOCATION VOL41	VOLUME	446886.540	3760779.541	210.000
LOCATION VOL42	VOLUME	446980.881	3760778.553	211.450
LOCATION VOL43	VOLUME	447074.233	3760778.059	210.000
LOCATION VOL44	VOLUME	447167.586	3760778.553	210.740
LOCATION VOL45	VOLUME	447261.542	3761130.609	213.790
LOCATION VOL46	VOLUME	447354.654	3761130.611	213.000
LOCATION VOL47	VOLUME	447448.792	3761131.192	212.500
LOCATION VOL48	VOLUME	447542.931	3761129.449	212.880
LOCATION VOL49	VOLUME	447566.175	3761130.030	213.000
LOCATION VOL50	VOLUME	447566.175	3761036.472	212.000
LOCATION VOL51	VOLUME	447473.199	3761037.634	212.000
LOCATION VOL52	VOLUME	447380.222	3761037.053	212.000
LOCATION VOL53	VOLUME	447286.664	3761035.891	213.000
LOCATION VOL54	VOLUME	447260.515	3761035.310	213.000
LOCATION VOL55	VOLUME	447262.258	3760942.333	212.000
LOCATION VOL56	VOLUME	447354.654	3760943.496	211.240
LOCATION VOL57	VOLUME	447447.630	3760945.239	211.000
LOCATION VOL58	VOLUME	447539.445	3760944.077	211.000
LOCATION VOL59	VOLUME	447561.527	3760944.077	211.000
LOCATION VOL60	VOLUME	447551.648	3760851.100	210.000
LOCATION VOL61	VOLUME	447456.928	3760852.262	210.000
LOCATION VOL62	VOLUME	447362.208	3760851.100	210.360
LOCATION VOL63	VOLUME	447269.812	3760849.938	211.040
LOCATION VOL64	VOLUME	447263.420	3760755.799	210.000
LOCATION VOL65	VOLUME	447356.397	3760756.380	210.000
LOCATION VOL66	VOLUME	447450.536	3760756.961	209.310
LOCATION VOL67	VOLUME	447546.418	3760758.704	209.000
LOCATION VOL68	VOLUME	447264.582	3760669.214	209.100
LOCATION VOL69	VOLUME	447358.721	3760702.918	209.080
LOCATION VOL70	VOLUME	447453.441	3760726.163	209.000
LOCATION VOL71	VOLUME	446884.540	3760685.485	210.000
LOCATION VOL72	VOLUME	446978.679	3760685.485	209.010
LOCATION VOL73	VOLUME	447072.237	3760684.904	210.000
LOCATION VOL74	VOLUME	447167.538	3760685.485	210.000
LOCATION VOL75	VOLUME	447169.281	3760618.658	209.280
LOCATION VOL76	VOLUME	447073.980	3760592.509	209.930
LOCATION VOL77	VOLUME	446979.260	3760591.928	209.510
LOCATION VOL78	VOLUME	446885.121	3760590.184	207.000
LOCATION VOL79	VOLUME	446881.054	3760504.181	207.000
LOCATION VOL80	VOLUME	446976.355	3760537.885	208.650
LOCATION VOL81	VOLUME	447071.656	3760573.332	209.830
LOCATION AREA1	AREA	446307.790	3760807.680	206.000
LOCATION AREA2	AREA	446842.340	3760732.660	210.000
LOCATION AREA3	AREA	446837.290	3760571.920	207.000
LOCATION AREA4	AREA	446836.660	3760494.390	207.000
LOCATION AREA5	AREA	446833.510	3760468.540	207.000
LOCATION AREA6	AREA	447213.930	3760700.730	210.000
LOCATION AREA7	AREA	447214.700	3760668.620	209.220
LOCATION AREA8	AREA	447216.070	3760627.170	209.000
LOCATION AREA9	AREA	447216.000	3760609.970	209.000

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.0003943734	5.000	21.684	1.400
SRCPARAM VOL2	0.0003943734	5.000	21.684	1.400
SRCPARAM VOL3	0.0003943734	5.000	21.684	1.400



SRCPARAM	VOL70	0.0003943734	5.000	21.684	1.400		
SRCPARAM	VOL71	0.0003943734	5.000	21.684	1.400		
SRCPARAM	VOL72	0.0003943734	5.000	21.684	1.400		
SRCPARAM	VOL73	0.0003943734	5.000	21.684	1.400		
SRCPARAM	VOL74	0.0003943734	5.000	21.684	1.400		
SRCPARAM	VOL75	0.0003943734	5.000	21.684	1.400		
SRCPARAM	VOL76	0.0003943734	5.000	21.684	1.400		
SRCPARAM	VOL77	0.0003943734	5.000	21.684	1.400		
SRCPARAM	VOL78	0.0003943734	5.000	21.684	1.400		
SRCPARAM	VOL79	0.0003943734	5.000	21.684	1.400		
SRCPARAM	VOL80	0.0003943734	5.000	21.684	1.400		
SRCPARAM	VOL81	0.0003943734	5.000	21.684	1.400		
SRCPARAM	AREA1	2.5356E-07	0.000	489.160	368.130	0.000	1.000
SRCPARAM	AREA2	2.5356E-07	0.000	371.910	444.400	0.000	1.000
SRCPARAM	AREA3	2.5356E-07	0.000	378.220	157.590	0.000	1.000
SRCPARAM	AREA4	2.5356E-07	0.000	184.070	75.640	0.000	1.000
SRCPARAM	AREA5	2.5356E-07	0.000	132.380	22.690	0.000	1.000
SRCPARAM	AREA6	2.5356E-07	0.000	386.390	473.160	0.000	1.000
SRCPARAM	AREA7	2.5356E-07	0.000	286.030	30.970	0.000	1.000
SRCPARAM	AREA8	2.5356E-07	0.000	180.820	40.080	0.000	1.000
SRCPARAM	AREA9	2.5356E-07	0.000	130.290	16.880	0.000	1.000
URBANSRC	ALL						

\*\* Variable Emissions Type: "By Hour / Day (HRDOW)"

\*\* Variable Emission Scenario: "Scenario 1"

\*\* WeekDays:

EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	VOL1	HRDOW	1.0	1.0	1.0	1.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Saturday:

EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Sunday:

EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* WeekDays:

EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	VOL2	HRDOW	1.0	1.0	1.0	1.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Saturday:

EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Sunday:

EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* WeekDays:

EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	VOL3	HRDOW	1.0	1.0	1.0	1.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Saturday:

EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Sunday:













































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** Saturday:
EMISFACT AREA6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT AREA6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT AREA7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA7      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT AREA7      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT AREA7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT AREA7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT AREA7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT AREA8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA8      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT AREA8      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT AREA8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT AREA8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT AREA8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT AREA9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA9      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT AREA9      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT AREA9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT AREA9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT AREA9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
SRCGROUP ALL

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SO FINISHED

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\*\* AERMOD Receptor Pathway  
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RE STARTING  
INCLUDED "14252 Cons PM10.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  
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\*\*\*\*\*  
\*\* AERMOD Output Pathway  
\*\*\*\*\*  
\*\*  
\*\*

OU STARTING  
RECTABLE ALLAVE 1ST  
RECTABLE 24 1ST  
\*\* Auto-Generated Plotfiles  
PLOTFILE 24 ALL 1ST "14252 CONS PM10.AD\24H1GALL.PLT" 31  
SUMMFILE "14252 Cons PM10.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 1595 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 1595 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

\*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\14252 Subarea 29  
AQIA\14252 Ops \*\*\* 09/23/22  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:18:10

PAGE 1

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.

```

* Model Uses NO DRY DEPLETION. DDPLETE = F
* Model Uses NO WET DEPLETION. WETDPLT = F
* Stack-tip Downwash.
* Model Accounts for ELEVated Terrain Effects.
* Use Calms Processing Routine.
* Use Missing Data Processing Routine.
* No Exponential Decay.
* Model Uses URBAN Dispersion Algorithm for the SBL for 90 Source(s),
  for Total of 1 Urban Area(s):
Urban Population = 2035210.0 ; Urban Roughness Length = 1.000 m
* Urban Roughness Length of 1.0 Meter Used.
* 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 Accepts FLAGPOLE Receptor . Heights.
* The User Specified a Pollutant Type of: PM_10

**Model Calculates 1 Short Term Average(s) of: 24-HR

**This Run Includes: 90 Source(s); 1 Source Group(s); and 81 Receptor(s)

with: 0 POINT(s), including
      0 POINTCAP(s) and 0 POINTHOR(s)
and: 81 VOLUME source(s)
and: 9 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 a total of 0 line(s)
and: 0 SWPOINT source(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 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 = 3.6 MB of RAM.

**Input Runstream File:
aermod.inp
**Output Print File:
aermod.out

**Detailed Error/Message File: 14252 Cons
PM10.err
**File for Summary of Results: 14252 Cons
PM10.sum
*** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29
AQIA\14252 Ops *** 09/23/22
*** AERMET - VERSION 16216 ***

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION	RATE			BASE	RELEASE	INIT.	INIT.
SOURCE	URBAN	EMISSION	RATE			ELEV.	HEIGHT	SY	SZ
SOURCE	PART.	(GRAMS/SEC)		X	Y	(METERS)	(METERS)	(METERS)	(METERS)
ID	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	CATS.	BY							
VOL1	0	0.39437E-03	446353.5	3761131.7	210.0	5.00	21.68	1.40	
YES	HRDOW								
VOL2	0	0.39437E-03	446446.1	3761131.0	210.5	5.00	21.68	1.40	
YES	HRDOW								
VOL3	0	0.39437E-03	446539.5	3761130.4	211.2	5.00	21.68	1.40	
YES	HRDOW								
VOL5	0	0.39437E-03	446726.3	3761130.2	213.8	5.00	21.68	1.40	
YES	HRDOW								
VOL4	0	0.39437E-03	446633.0	3761129.8	212.7	5.00	21.68	1.40	
YES	HRDOW								
VOL6	0	0.39437E-03	446765.9	3761130.2	214.4	5.00	21.68	1.40	
YES	HRDOW								
VOL7	0	0.39437E-03	446765.9	3761036.3	213.3	5.00	21.68	1.40	
YES	HRDOW								
VOL8	0	0.39437E-03	446671.9	3761036.3	211.8	5.00	21.68	1.40	
YES	HRDOW								
VOL9	0	0.39437E-03	446577.4	3761036.3	210.7	5.00	21.68	1.40	
YES	HRDOW								
VOL10	0	0.39437E-03	446482.8	3761036.3	209.6	5.00	21.68	1.40	
YES	HRDOW								
VOL11	0	0.39437E-03	446389.4	3761038.1	208.6	5.00	21.68	1.40	
YES	HRDOW								
VOL12	0	0.39437E-03	446353.8	3760945.9	207.1	5.00	21.68	1.40	
YES	HRDOW								
VOL13	0	0.39437E-03	446446.5	3760945.3	208.1	5.00	21.68	1.40	
YES	HRDOW								
VOL14	0	0.39437E-03	446541.7	3760943.5	209.1	5.00	21.68	1.40	
YES	HRDOW								
VOL15	0	0.39437E-03	446633.3	3760942.9	210.1	5.00	21.68	1.40	
YES	HRDOW								
VOL16	0	0.39437E-03	446726.7	3760943.5	210.2	5.00	21.68	1.40	
YES	HRDOW								
VOL17	0	0.39437E-03	446755.2	3760943.5	210.8	5.00	21.68	1.40	
YES	HRDOW								
VOL18	0	0.39437E-03	446748.7	3760849.5	210.0	5.00	21.68	1.40	
YES	HRDOW								
VOL19	0	0.39437E-03	446655.9	3760850.1	209.0	5.00	21.68	1.40	
YES	HRDOW								
VOL20	0	0.39437E-03	446563.1	3760850.1	208.0	5.00	21.68	1.40	
YES	HRDOW								
VOL21	0	0.39437E-03	446470.3	3760860.2	207.5	5.00	21.68	1.40	
YES	HRDOW								
VOL22	0	0.39437E-03	446354.3	3761039.3	208.4	5.00	21.68	1.40	
YES	HRDOW								
VOL23	0	0.39437E-03	446376.9	3760860.8	207.0	5.00	21.68	1.40	
YES	HRDOW								
VOL24	0	0.39437E-03	446353.8	3760857.9	207.0	5.00	21.68	1.40	
YES	HRDOW								
VOL25	0	0.39437E-03	446885.8	3761133.7	216.0	5.00	21.68	1.40	



YES	HRDOW								
VOL49		0	0.39437E-03	447566.2	3761130.0	213.0	5.00	21.68	1.40
YES	HRDOW								
VOL50		0	0.39437E-03	447566.2	3761036.5	212.0	5.00	21.68	1.40
YES	HRDOW								
VOL51		0	0.39437E-03	447473.2	3761037.6	212.0	5.00	21.68	1.40
YES	HRDOW								
VOL52		0	0.39437E-03	447380.2	3761037.1	212.0	5.00	21.68	1.40
YES	HRDOW								
VOL53		0	0.39437E-03	447286.7	3761035.9	213.0	5.00	21.68	1.40
YES	HRDOW								
VOL54		0	0.39437E-03	447260.5	3761035.3	213.0	5.00	21.68	1.40
YES	HRDOW								
VOL55		0	0.39437E-03	447262.3	3760942.3	212.0	5.00	21.68	1.40
YES	HRDOW								
VOL56		0	0.39437E-03	447354.7	3760943.5	211.2	5.00	21.68	1.40
YES	HRDOW								
VOL57		0	0.39437E-03	447447.6	3760945.2	211.0	5.00	21.68	1.40
YES	HRDOW								
VOL58		0	0.39437E-03	447539.4	3760944.1	211.0	5.00	21.68	1.40
YES	HRDOW								
VOL59		0	0.39437E-03	447561.5	3760944.1	211.0	5.00	21.68	1.40
YES	HRDOW								
VOL60		0	0.39437E-03	447551.6	3760851.1	210.0	5.00	21.68	1.40
YES	HRDOW								
VOL61		0	0.39437E-03	447456.9	3760852.3	210.0	5.00	21.68	1.40
YES	HRDOW								
VOL62		0	0.39437E-03	447362.2	3760851.1	210.4	5.00	21.68	1.40
YES	HRDOW								
VOL63		0	0.39437E-03	447269.8	3760849.9	211.0	5.00	21.68	1.40
YES	HRDOW								
VOL64		0	0.39437E-03	447263.4	3760755.8	210.0	5.00	21.68	1.40
YES	HRDOW								
VOL65		0	0.39437E-03	447356.4	3760756.4	210.0	5.00	21.68	1.40
YES	HRDOW								
VOL66		0	0.39437E-03	447450.5	3760757.0	209.3	5.00	21.68	1.40
YES	HRDOW								
VOL67		0	0.39437E-03	447546.4	3760758.7	209.0	5.00	21.68	1.40
YES	HRDOW								
VOL68		0	0.39437E-03	447264.6	3760669.2	209.1	5.00	21.68	1.40
YES	HRDOW								
VOL69		0	0.39437E-03	447358.7	3760702.9	209.1	5.00	21.68	1.40
YES	HRDOW								
VOL70		0	0.39437E-03	447453.4	3760726.2	209.0	5.00	21.68	1.40
YES	HRDOW								
VOL71		0	0.39437E-03	446884.5	3760685.5	210.0	5.00	21.68	1.40
YES	HRDOW								
VOL72		0	0.39437E-03	446978.7	3760685.5	209.0	5.00	21.68	1.40
YES	HRDOW								
VOL73		0	0.39437E-03	447072.2	3760684.9	210.0	5.00	21.68	1.40
YES	HRDOW								
VOL74		0	0.39437E-03	447167.5	3760685.5	210.0	5.00	21.68	1.40
YES	HRDOW								
VOL75		0	0.39437E-03	447169.3	3760618.7	209.3	5.00	21.68	1.40
YES	HRDOW								
VOL76		0	0.39437E-03	447074.0	3760592.5	209.9	5.00	21.68	1.40
YES	HRDOW								
VOL77		0	0.39437E-03	446979.3	3760591.9	209.5	5.00	21.68	1.40
YES	HRDOW								
VOL78		0	0.39437E-03	446885.1	3760590.2	207.0	5.00	21.68	1.40
YES	HRDOW								
VOL79		0	0.39437E-03	446881.1	3760504.2	207.0	5.00	21.68	1.40
YES	HRDOW								
VOL80		0	0.39437E-03	446976.4	3760537.9	208.7	5.00	21.68	1.40
YES	HRDOW								

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION RATE			BASE	RELEASE	INIT.	INIT.
SOURCE	URBAN	EMISSION RATE	X	Y	ELEV.	HEIGHT	SY	SZ
ID	PART.	(GRAMS/SEC)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	CATS.	BY						

VOL81 0 0.39437E-03 447071.7 3760573.3 209.8 5.00 21.68 1.40

YES HRDOW

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* AREA SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION RATE	COORD (SW CORNER)	BASE	RELEASE	X-DIM	Y-DIM	
AREA	ORIENT.	INIT.	URBAN	EMISSION RATE				OF
AREA	PART.	(GRAMS/SEC	X	Y	ELEV.	HEIGHT	OF AREA	OF AREA
ID	CATS.	/METER**2)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(DEG.)	(METERS)	BY						

AREA1 0 0.25356E-06 446307.8 3760807.7 206.0 0.00 489.16 368.13

0.00 1.00 YES HRDOW

AREA2 0 0.25356E-06 446842.3 3760732.7 210.0 0.00 371.91 444.40

0.00 1.00 YES HRDOW

AREA3 0 0.25356E-06 446837.3 3760571.9 207.0 0.00 378.22 157.59

0.00 1.00 YES HRDOW

AREA4 0 0.25356E-06 446836.7 3760494.4 207.0 0.00 184.07 75.64

0.00 1.00 YES HRDOW

AREA5 0 0.25356E-06 446833.5 3760468.5 207.0 0.00 132.38 22.69

0.00 1.00 YES HRDOW

AREA6 0 0.25356E-06 447213.9 3760700.7 210.0 0.00 386.39 473.16

0.00 1.00 YES HRDOW

AREA7 0 0.25356E-06 447214.7 3760668.6 209.2 0.00 286.03 30.97

0.00 1.00 YES HRDOW

AREA8 0 0.25356E-06 447216.1 3760627.2 209.0 0.00 180.82 40.08

0.00 1.00 YES HRDOW

AREA9 0 0.25356E-06 447216.0 3760610.0 209.0 0.00 130.29 16.88

0.00 1.00 YES HRDOW

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*



\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID

SOURCE IDs

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ALL      VOL1      , VOL2      , VOL3      , VOL5      , VOL4      , VOL6      ,
VOL7     , VOL8      ,

VOL9     , VOL10    , VOL11    , VOL12    , VOL13    , VOL14    ,
VOL15    , VOL16    ,

VOL17    , VOL18    , VOL19    , VOL20    , VOL21    , VOL22    ,
VOL23    , VOL24    ,

VOL25    , VOL26    , VOL27    , VOL28    , VOL29    , VOL30    ,
VOL31    , VOL32    ,

VOL33    , VOL34    , VOL35    , VOL36    , VOL37    , VOL38    ,
VOL39    , VOL40    ,

VOL41    , VOL42    , VOL43    , VOL44    , VOL45    , VOL46    ,
VOL47    , VOL48    ,

VOL49    , VOL50    , VOL51    , VOL52    , VOL53    , VOL54    ,
VOL55    , VOL56    ,

VOL57    , VOL58    , VOL59    , VOL60    , VOL61    , VOL62    ,
VOL63    , VOL64    ,

VOL65    , VOL66    , VOL67    , VOL68    , VOL69    , VOL70    ,
VOL71    , VOL72    ,

VOL73    , VOL74    , VOL75    , VOL76    , VOL77    , VOL78    ,
VOL79    , VOL80    ,

VOL81    , AREA1    , AREA2    , AREA3    , AREA4    , AREA5    ,
AREA6    , AREA7    ,

AREA8    , AREA9    ,
  
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*** AERMOD - VERSION 22112 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29
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*** AERMET - VERSION 16216 ***
***                                     ***      10:18:10
  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

URBAN ID

URBAN POP

SOURCE IDs

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VOL8     2035210. VOL1      , VOL2      , VOL3      , VOL5      , VOL4      ,
VOL6     , VOL7      ,

VOL9     , VOL10    , VOL11    , VOL12    , VOL13    , VOL14    ,
VOL15    , VOL16    ,

VOL17    , VOL18    , VOL19    , VOL20    , VOL21    , VOL22    ,
VOL23    , VOL24    ,
  
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VOL25 , VOL26 , VOL27 , VOL28 , VOL29 , VOL30 ,  
VOL31 , VOL32 , ,  
VOL33 , VOL34 , VOL35 , VOL36 , VOL37 , VOL38 ,  
VOL39 , VOL40 , ,  
VOL41 , VOL42 , VOL43 , VOL44 , VOL45 , VOL46 ,  
VOL47 , VOL48 , ,  
VOL49 , VOL50 , VOL51 , VOL52 , VOL53 , VOL54 ,  
VOL55 , VOL56 , ,  
VOL57 , VOL58 , VOL59 , VOL60 , VOL61 , VOL62 ,  
VOL63 , VOL64 , ,  
VOL65 , VOL66 , VOL67 , VOL68 , VOL69 , VOL70 ,  
VOL71 , VOL72 , ,  
VOL73 , VOL74 , VOL75 , VOL76 , VOL77 , VOL78 ,  
VOL79 , VOL80 , ,  
VOL81 , AREA1 , AREA2 , AREA3 , AREA4 , AREA5 ,  
AREA6 , AREA7 , ,  
AREA8 , AREA9 ,

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL1 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY										
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6
.0000E+00	7	.0000E+00	8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01
.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22
.0000E+00	23	.0000E+00	24	.0000E+00	DAY OF WEEK = SATURDAY					
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6
.0000E+00	7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00
.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22
.0000E+00	23	.0000E+00	24	.0000E+00	DAY OF WEEK = SUNDAY					
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6
.0000E+00	7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00
.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22
.0000E+00	23	.0000E+00	24	.0000E+00						

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\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL2 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

Table with 12 columns (1-12) and 6 rows of scalar values for Weekday.

DAY OF WEEK = SATURDAY

Table with 12 columns (1-12) and 6 rows of scalar values for Saturday.

DAY OF WEEK = SUNDAY

Table with 12 columns (1-12) and 6 rows of scalar values for Sunday.

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\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\* 10:18:10

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL3 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

Table with 12 columns (1-12) and 6 rows of scalar values for Weekday.

DAY OF WEEK = SATURDAY

Table with 12 columns (1-12) and 6 rows of scalar values for Saturday.

DAY OF WEEK = SUNDAY

Table with 12 columns (1-12) and 1 row of scalar values for Sunday.

.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* AERMET - VERSION 16216 \*\*\*  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL5 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29  
AQIA\14252 Ops \*\*\* 09/23/22  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL4 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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AQIA\14252 Ops \*\*\* 09/23/22  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL6 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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AQIA\14252 Ops \*\*\* 09/23/22  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL7 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL8 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL9 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL10 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL11 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	
	.1000E+01	15	.1000E+01	16	.1000E+01						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL12 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	
	.1000E+01	15	.1000E+01	16	.1000E+01						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						



.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL13 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL14 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL15 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL16 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR

SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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AQIA\14252 Ops \*\*\* 09/23/22
\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\* 10:18:10

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL17 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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AQIA\14252 Ops \*\*\* 09/23/22
\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\* 10:18:10

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL18 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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AQIA\14252 Ops \*\*\* 09/23/22
\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\* 10:18:10

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL19 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14

.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00  
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AQIA\14252 Ops \*\*\* 09/23/22  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:18:10

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL20 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL21 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL22 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL23 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6

.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* \*\* 10:18:10

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL24 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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AQIA\14252 Ops \*\*\* 09/23/22  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* \*\* 10:18:10

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL25 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

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 AQIA\14252 Ops \*\*\* 09/23/22  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 10:18:10

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
 (HRDOW) \*

SOURCE ID = VOL26 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

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 AQIA\14252 Ops \*\*\* 09/23/22



\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL27 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL28 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL29 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL30 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL31 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL32 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	
	.1000E+01	15	.1000E+01	16	.1000E+01						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL33 ; SOURCE TYPE = VOLUME :

HOURLY	SCALAR	HOURLY	SCALAR	HOURLY	SCALAR	HOURLY	SCALAR	HOURLY	SCALAR	HOURLY
SCALAR	HOURLY	SCALAR	HOURLY	SCALAR	HOURLY	SCALAR	HOURLY	SCALAR	HOURLY	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	
	.1000E+01	15	.1000E+01	16	.1000E+01						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL34 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL35 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00

.0000E+00 23 .0000E+00 24 .0000E+00  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL36 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL37 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL38 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL39 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14

.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL40 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL41 ; SOURCE TYPE = VOLUME :



HR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL42 ; SOURCE TYPE = VOLUME :

HR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL43 ; SOURCE TYPE = VOLUME :
HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

Table with 12 columns (1-12) and 6 rows of scalar values for Weekday. Values range from .0000E+00 to .1000E+01.

DAY OF WEEK = SATURDAY

Table with 12 columns (1-12) and 6 rows of scalar values for Saturday. All values are .0000E+00.

DAY OF WEEK = SUNDAY

Table with 12 columns (1-12) and 6 rows of scalar values for Sunday. All values are .0000E+00.

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL44 ; SOURCE TYPE = VOLUME :
HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

Table with 12 columns (1-12) and 6 rows of scalar values for Weekday. Values range from .0000E+00 to .1000E+01.

DAY OF WEEK = SATURDAY

Table with 12 columns (1-12) and 6 rows of scalar values for Saturday. All values are .0000E+00.

DAY OF WEEK = SUNDAY

Table with 12 columns (1-12) and 2 rows of scalar values for Sunday. Values range from .0000E+00 to .1000E+01.

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL45 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL46 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6

.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL47 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL48 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL49 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK

(HRDOW) \*

SOURCE ID = VOL50 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL51 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL52 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

Table with 12 columns (HOUR, SCALAR) and 24 rows of data for WEEKDAY.

DAY OF WEEK = SATURDAY

Table with 12 columns (HOUR, SCALAR) and 24 rows of data for SATURDAY.

DAY OF WEEK = SUNDAY

Table with 12 columns (HOUR, SCALAR) and 24 rows of data for SUNDAY.

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL53 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

Table with 12 columns (HOUR, SCALAR) and 24 rows of data for WEEKDAY.

DAY OF WEEK = SATURDAY

Table with 12 columns (HOUR, SCALAR) and 24 rows of data for SATURDAY.

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL54 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL55 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22



.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL56 ; SOURCE TYPE = VOLUME :

HR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL57 ; SOURCE TYPE = VOLUME :

HR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL58 ; SOURCE TYPE = VOLUME :

SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
--------	------	--------	------	--------	------	--------	------	--------	------

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL59 ; SOURCE TYPE = VOLUME :

Hourly emission rate scalars for source VOL59, showing hours 1-24 and their corresponding scalar values.

DAY OF WEEK = WEEKDAY

Hourly emission rate scalars for source VOL59 on weekdays (Monday-Friday).

DAY OF WEEK = SATURDAY

Hourly emission rate scalars for source VOL59 on Saturdays.

DAY OF WEEK = SUNDAY

Hourly emission rate scalars for source VOL59 on Sundays.

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL60 ; SOURCE TYPE = VOLUME :

Hourly emission rate scalars for source VOL60, showing hours 1-24 and their corresponding scalar values.

DAY OF WEEK = WEEKDAY

Hourly emission rate scalars for source VOL60 on weekdays (Monday-Friday).

DAY OF WEEK = SATURDAY

Hourly emission rate scalars for source VOL60 on Saturdays.

DAY OF WEEK = SUNDAY

Hourly emission rate scalars for source VOL60 on Sundays.

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL61 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL62 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14

.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL63 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL64 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00

9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL65 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL66 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL67 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL68 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

Table with 12 columns (1-12) and 6 rows of scalar values for Weekday. Values range from .0000E+00 to .1000E+01.

DAY OF WEEK = SATURDAY

Table with 12 columns (1-12) and 6 rows of scalar values for Saturday. All values are .0000E+00.

DAY OF WEEK = SUNDAY

Table with 12 columns (1-12) and 6 rows of scalar values for Sunday. All values are .0000E+00.

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL69 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

Table with 12 columns (1-12) and 6 rows of scalar values for Weekday. Values range from .0000E+00 to .1000E+01.

DAY OF WEEK = SATURDAY

Table with 12 columns (1-12) and 6 rows of scalar values for Saturday. All values are .0000E+00.

DAY OF WEEK = SUNDAY

Table with 12 columns (1-12) and 1 row of scalar values for Sunday. All values are .0000E+00.



.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL70 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL71 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL72 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL73 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL74 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL75 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL76 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL77 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	
	.1000E+01	15	.1000E+01	16	.1000E+01						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL78 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	
	.1000E+01	15	.1000E+01	16	.1000E+01						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL79 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL80 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL81 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = AREA1 ; SOURCE TYPE = AREA :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR

SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = AREA2 ; SOURCE TYPE = AREA :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = AREA3 ; SOURCE TYPE = AREA :
HOURL SCALAR HOURL SCALAR HOURL SCALAR HOURL SCALAR HOURL SCALAR HOURL
SCALAR HOURL SCALAR HOURL SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = AREA4 ; SOURCE TYPE = AREA :
HOURL SCALAR HOURL SCALAR HOURL SCALAR HOURL SCALAR HOURL SCALAR HOURL
SCALAR HOURL SCALAR HOURL SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14

.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00  
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AQIA\14252 Ops \*\*\* 09/23/22  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = AREA5 ; SOURCE TYPE = AREA :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = AREA6 ; SOURCE TYPE = AREA :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = AREA7 ; SOURCE TYPE = AREA :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29  
AQIA\14252 Ops \*\*\* 09/23/22

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 10:18:10

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = AREA8 ; SOURCE TYPE = AREA :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6

.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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AQIA\14252 Ops \*\*\* 09/23/22  
\*\*\* AERMET - VERSION 16216 \*\*\*  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = AREA9 ; SOURCE TYPE = AREA :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29  
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\*\*\* AERMET - VERSION 16216 \*\*\*  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)

(METERS)

( 446880.6, 3760419.5, 207.0, 207.0, 2.0); ( 446886.3, 3760422.3, 207.0, 207.0, 2.0);  
( 446909.2, 3760429.0, 207.0, 207.0, 2.0); ( 446932.4, 3760438.0, 207.3, 207.3, 2.0);  
( 446953.6, 3760447.2, 207.4, 207.4, 2.0); ( 446975.6, 3760454.9, 207.9, 207.9, 2.0);  
( 446990.2, 3760460.5, 208.0, 208.0, 2.0); ( 447027.1, 3760473.2, 208.0, 208.0, 2.0);  
( 447050.9, 3760483.6, 208.4, 208.4, 2.0); ( 447070.3, 3760490.6, 209.0, 209.0, 2.0);  
( 447089.8, 3760497.4, 209.0, 209.0, 2.0); ( 447109.3, 3760505.8, 208.9, 208.9, 2.0);  
( 447130.0, 3760512.9, 208.9, 208.9, 2.0); ( 447151.3, 3760520.7, 209.0, 209.0, 2.0);  
( 447193.4, 3760535.7, 208.6, 208.6, 2.0); ( 447230.8, 3760550.4, 208.1, 208.1, 2.0);  
( 447252.1, 3760557.7, 208.0, 208.0, 2.0); ( 447273.7, 3760565.5, 208.0, 208.0, 2.0);  
( 447292.7, 3760572.8, 208.0, 208.0, 2.0); ( 447339.1, 3760589.1, 208.0, 208.0, 2.0);  
( 447365.4, 3760597.9, 208.0, 208.0, 2.0); ( 447401.6, 3760610.9, 208.1, 208.1, 2.0);  
( 447434.1, 3760622.3, 208.0, 208.0, 2.0); ( 447468.0, 3760634.8, 208.0, 208.0, 2.0);  
( 447497.5, 3760645.0, 208.3, 208.3, 2.0); ( 447521.4, 3760652.6, 208.5, 208.5, 2.0);  
( 447547.0, 3760662.6, 208.9, 208.9, 2.0); ( 447578.8, 3760675.1, 209.0, 209.0, 2.0);  
( 447648.3, 3760700.8, 209.0, 209.0, 2.0); ( 447679.0, 3760712.0, 209.0, 209.0, 2.0);  
( 447705.1, 3760721.8, 209.0, 209.0, 2.0); ( 447666.0, 3760779.6, 209.8, 209.8, 2.0);  
( 447647.4, 3760831.4, 210.0, 210.0, 2.0); ( 447648.7, 3760893.4, 210.6, 210.6, 2.0);  
( 447649.4, 3760953.0, 211.0, 211.0, 2.0); ( 447648.7, 3760987.3, 211.7, 211.7, 2.0);  
( 447649.0, 3761070.7, 212.5, 212.5, 2.0); ( 447649.2, 3761155.1, 213.0, 213.0, 2.0);  
( 447577.5, 3761210.6, 213.1, 213.1, 2.0); ( 447650.0, 3761221.8, 214.0, 214.0, 2.0);  
( 446484.6, 3761227.3, 212.0, 212.0, 2.0); ( 446553.2, 3761230.1, 212.6, 212.6, 2.0);  
( 446513.5, 3761230.1, 212.0, 212.0, 2.0); ( 446297.9, 3761173.0, 210.0, 210.0, 2.0);  
( 446296.6, 3761131.3, 209.9, 209.9, 2.0); ( 446296.6, 3761111.8, 209.7, 209.7, 2.0);  
( 446296.8, 3761092.8, 209.2, 209.2, 2.0); ( 446295.8, 3761072.8, 209.0, 209.0, 2.0);  
( 446296.6, 3761056.1, 209.0, 209.0, 2.0); ( 446296.3, 3761037.7, 208.4, 208.4, 2.0);  
( 446296.3, 3761019.4, 208.0, 208.0, 2.0); ( 446295.3, 3761001.3, 208.0, 208.0, 2.0);  
( 446295.5, 3760982.3, 207.5, 207.5, 2.0); ( 446295.5, 3760963.7, 207.0, 207.0, 2.0);  
( 446294.6, 3760945.4, 207.0, 207.0, 2.0); ( 446295.3, 3760926.4, 207.0, 207.0, 2.0);  
( 446295.0, 3760909.8, 207.0, 207.0, 2.0); ( 446294.0, 3760894.8, 207.0, 207.0, 2.0);  
( 446294.4, 3760880.8, 207.0, 207.0, 2.0); ( 446294.6, 3760867.5, 206.8, 206.8, 2.0);  
( 446294.6, 3760853.6, 206.4, 206.4, 2.0); ( 446294.8, 3760835.3, 206.1, 206.1, 2.0);  
( 446294.2, 3760806.2, 206.0, 206.0, 2.0); ( 446391.7, 3760794.1, 207.0, 207.0, 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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 AQIA\14252 Ops \*\*\* 09/23/22

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR  
 SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): VOL1 , VOL2 ,  
 VOL3 , VOL5 , VOL4  
 VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
 VOL11 , VOL12 , VOL13 ,  
 VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
 VOL19 , VOL20 , VOL21 ,  
 VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
 VOL27 , VOL28 , . . . ,

\*\*\* 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)			
446880.58	3760419.47	0.39024	(13122324)	446886.26	
3760422.30	0.40157	(13122324)			
446909.21	3760429.01	0.42538	(13122324)	446932.42	
3760438.03	0.45377	(13122324)			
446953.64	3760447.19	0.53215	(12010924)	446975.65	
3760454.95	0.52976	(12010924)			
446990.22	3760460.49	0.50190	(12010924)	447027.12	
3760473.16	0.50191c	(14111124)			
447050.87	3760483.61	0.44889c	(14111124)	447070.35	
3760490.58	0.40663c	(14111124)			
447089.83	3760497.39	0.39645c	(14111124)	447109.31	
3760505.78	0.40761c	(14111124)			
447130.05	3760512.91	0.41990c	(14111124)	447151.27	
3760520.67	0.43888c	(14111124)			
447193.40	3760535.71	0.50165c	(14111124)	447230.77	
3760550.44	0.54082c	(14111124)			
447252.15	3760557.73	0.50637c	(14111124)	447273.69	
3760565.49	0.50012c	(14111124)			
447292.69	3760572.77	0.52252c	(14111124)	447339.09	
3760589.08	0.62080c	(14111124)			
447365.38	3760597.95	0.61938c	(14111124)	447401.65	
3760610.94	0.62493c	(14111124)			
447434.11	3760622.34	0.52661c	(14111124)	447468.00	
3760634.85	0.53565c	(14111124)			
447497.46	3760644.99	0.57767c	(14111124)	447521.37	
3760652.59	0.54307c	(14111124)			
447547.02	3760662.56	0.50924c	(14111124)	447578.85	
3760675.07	0.54380c	(14111124)			
447648.27	3760700.75	0.43211c	(13110424)	447678.99	



3760711.99	0.35959c	(12110124)	
447705.12	3760721.81	0.31456c	(12110124) 447665.99
3760779.58	0.46615c	(12120524)	
447647.36	3760831.38	0.62631c	(12120524) 447648.66
3760893.43	0.64840c	(12120524)	
447649.41	3760953.05	0.66395c	(12120524) 447648.66
3760987.33	0.66293c	(12120524)	
447648.95	3761070.72	0.64347c	(12120524) 447649.16
3761155.12	0.58378b	(12050124)	
447577.48	3761210.58	0.48349b	(12050124) 447650.04
3761221.76	0.43962b	(12050124)	
446484.62	3761227.34	0.31541	(14120324) 446553.20
3761230.07	0.31697	(14120324)	
446513.45	3761230.07	0.31259	(14120324) 446297.94
3761172.96	0.58934	(13012524)	
446296.64	3761131.30	0.68858	(13012524) 446296.64
3761111.82	0.70624	(13012424)	
446296.80	3761092.81	0.73839	(13012424) 446295.84
3761072.85	0.76599	(13012424)	
446296.64	3761056.07	0.79300	(13012424) 446296.32
3761037.69	0.81205	(13012424)	
446296.28	3761019.42	0.81891	(13012424) 446295.35
3761001.35	0.80158	(13012424)	
446295.54	3760982.34	0.81683	(13012424) 446295.54
3760963.71	0.83022	(13012424)	
446294.61	3760945.44	0.81472	(13012424) 446295.35
3760926.44	0.81743	(13012424)	
446294.98	3760909.85	0.80219	(13012424) 446294.05
3760894.76	0.78316	(13012424)	
446294.42	3760880.78	0.77817	(13012424) 446294.61
3760867.55	0.77396	(13012424)	
446294.61	3760853.58	0.75263	(13012424) 446294.79
3760835.32	0.73423	(12021524)	
446294.23	3760806.25	0.61014	(12021524) 446391.69
3760794.13	0.66128	(14120124)	
446312.31	3760780.16	0.46265	(12021524) 446292.56
3760779.60	0.42015	(12021524)	
446269.45	3760780.35	0.34646	(12021524) 446411.66
3760789.09	0.59756	(14120124)	
446496.51	3760770.27	0.46449	(14120124) 446584.98
3760778.00	0.52912	(14120124)	
446615.93	3760779.55	0.53286	(14120124) 446705.94
3760782.13	0.54010c	(14111124)	
446782.80	3760775.68	0.52558c	(14111124) 446784.09
3760707.08	0.46258	(12020624)	
446784.60	3760693.41	0.46120	(12020624) 446791.57
3760568.06	0.46146	(14120124)	
446786.66	3760636.15	0.44178	(14120124) 446793.89
3760530.92	0.45977	(14120124)	
446792.60	3760439.36	0.35870c	(13110524) 446796.58
3760367.99	0.24601	(14120224)	

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29  
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\*\*\* AERMET - VERSION 16216 \*\*\*  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL5 , VOL4 ,  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,

VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . . ,

\*\*\* 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
446708.26	3760360.35	0.19827c			
(13110524)					

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\*\*\* \*\* 10:18:10

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 24-HR RESULTS \*\*\*

\*\* CONC OF PM<sub>10</sub> IN  
MICROGRAMS/M\*\*3 \*\*

DATE

GROUP ID	AVERAGE CONC	(YYMMDDHH)	NETWORK
ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID	RECEPTOR (XR, YR,

ALL HIGH 1ST HIGH VALUE IS 0.83022 ON 13012424: AT ( 446295.54, 3760963.71,  
207.00, 207.00, 2.00) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

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\*\*\* \*\* 10:18:10

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- 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 1595 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 1595 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*

\*\*  
\*\*\*\*\*  
\*\*  
\*\* AERMOD Input Produced by:  
\*\* AERMOD View Ver. 11.0.0  
\*\* Lakes Environmental Software Inc.  
\*\* Date: 9/23/2022  
\*\* File: C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29 AQIA\14252 Cons PM25\14252 Cons PM25.ADI  
\*\*

\*\*\*\*\*  
\*\*  
\*\*  
\*\*\*\*\*  
\*\* AERMOD Control Pathway  
\*\*\*\*\*  
\*\*  
\*\*

CO STARTING  
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29 AQIA\14252 Ops  
MODELOPT DFAULT CONC  
AVERTIME 24  
URBANOPT 2035210  
POLLUTID PM\_2.5  
FLAGPOLE 2.00  
RUNORNOT RUN  
ERRORFIL "14252 Cons PM25.err"

CO FINISHED

\*\*  
\*\*\*\*\*  
\*\* AERMOD Source Pathway  
\*\*\*\*\*

\*\*  
\*\*

SO STARTING

\*\* Source Location \*\*

\*\* Source ID - Type - X Coord. - Y Coord. \*\*

LOCATION VOL1	VOLUME	446353.525	3761131.686	210.000
LOCATION VOL2	VOLUME	446446.125	3761131.042	210.490
LOCATION VOL3	VOLUME	446539.533	3761130.447	211.160
LOCATION VOL5	VOLUME	446726.282	3761130.182	213.760
LOCATION VOL4	VOLUME	446633.040	3761129.753	212.700
LOCATION VOL6	VOLUME	446765.912	3761130.249	214.410
LOCATION VOL7	VOLUME	446765.912	3761036.279	213.290
LOCATION VOL8	VOLUME	446671.941	3761036.279	211.830
LOCATION VOL9	VOLUME	446577.377	3761036.279	210.730
LOCATION VOL10	VOLUME	446482.812	3761036.279	209.630
LOCATION VOL11	VOLUME	446389.436	3761038.063	208.600
LOCATION VOL12	VOLUME	446353.751	3760945.877	207.050
LOCATION VOL13	VOLUME	446446.532	3760945.282	208.070
LOCATION VOL14	VOLUME	446541.692	3760943.498	209.100
LOCATION VOL15	VOLUME	446633.283	3760942.903	210.100
LOCATION VOL16	VOLUME	446726.658	3760943.498	210.240
LOCATION VOL17	VOLUME	446755.206	3760943.498	210.770
LOCATION VOL18	VOLUME	446748.664	3760849.528	210.000
LOCATION VOL19	VOLUME	446655.883	3760850.122	209.000
LOCATION VOL20	VOLUME	446563.103	3760850.122	208.020
LOCATION VOL21	VOLUME	446470.322	3760860.233	207.480
LOCATION VOL22	VOLUME	446354.346	3761039.252	208.430
LOCATION VOL23	VOLUME	446376.946	3760860.828	207.000
LOCATION VOL24	VOLUME	446353.751	3760857.854	207.000
LOCATION VOL25	VOLUME	446885.787	3761133.683	216.000
LOCATION VOL26	VOLUME	446980.128	3761132.999	216.000
LOCATION VOL27	VOLUME	447072.419	3761132.316	216.000
LOCATION VOL28	VOLUME	447165.393	3761130.948	214.900
LOCATION VOL29	VOLUME	447166.104	3761038.359	214.000

LOCATION VOL30	VOLUME	447072.257	3761040.335	214.000
LOCATION VOL31	VOLUME	446979.399	3761039.347	214.440
LOCATION VOL32	VOLUME	446885.553	3761040.335	214.470
LOCATION VOL33	VOLUME	446886.540	3760946.983	213.100
LOCATION VOL34	VOLUME	446979.893	3760946.983	213.000
LOCATION VOL35	VOLUME	447073.739	3760948.464	213.090
LOCATION VOL36	VOLUME	447168.080	3760946.489	213.000
LOCATION VOL37	VOLUME	447169.561	3760852.148	212.130
LOCATION VOL38	VOLUME	447076.209	3760854.618	213.210
LOCATION VOL39	VOLUME	446979.893	3760854.618	213.010
LOCATION VOL40	VOLUME	446888.516	3760854.124	210.510
LOCATION VOL41	VOLUME	446886.540	3760779.541	210.000
LOCATION VOL42	VOLUME	446980.881	3760778.553	211.450
LOCATION VOL43	VOLUME	447074.233	3760778.059	210.000
LOCATION VOL44	VOLUME	447167.586	3760778.553	210.740
LOCATION VOL45	VOLUME	447261.542	3761130.609	213.790
LOCATION VOL46	VOLUME	447354.654	3761130.611	213.000
LOCATION VOL47	VOLUME	447448.792	3761131.192	212.500
LOCATION VOL48	VOLUME	447542.931	3761129.449	212.880
LOCATION VOL49	VOLUME	447566.175	3761130.030	213.000
LOCATION VOL50	VOLUME	447566.175	3761036.472	212.000
LOCATION VOL51	VOLUME	447473.199	3761037.634	212.000
LOCATION VOL52	VOLUME	447380.222	3761037.053	212.000
LOCATION VOL53	VOLUME	447286.664	3761035.891	213.000
LOCATION VOL54	VOLUME	447260.515	3761035.310	213.000
LOCATION VOL55	VOLUME	447262.258	3760942.333	212.000
LOCATION VOL56	VOLUME	447354.654	3760943.496	211.240
LOCATION VOL57	VOLUME	447447.630	3760945.239	211.000
LOCATION VOL58	VOLUME	447539.445	3760944.077	211.000
LOCATION VOL59	VOLUME	447561.527	3760944.077	211.000
LOCATION VOL60	VOLUME	447551.648	3760851.100	210.000
LOCATION VOL61	VOLUME	447456.928	3760852.262	210.000
LOCATION VOL62	VOLUME	447362.208	3760851.100	210.360
LOCATION VOL63	VOLUME	447269.812	3760849.938	211.040
LOCATION VOL64	VOLUME	447263.420	3760755.799	210.000
LOCATION VOL65	VOLUME	447356.397	3760756.380	210.000
LOCATION VOL66	VOLUME	447450.536	3760756.961	209.310
LOCATION VOL67	VOLUME	447546.418	3760758.704	209.000
LOCATION VOL68	VOLUME	447264.582	3760669.214	209.100
LOCATION VOL69	VOLUME	447358.721	3760702.918	209.080
LOCATION VOL70	VOLUME	447453.441	3760726.163	209.000
LOCATION VOL71	VOLUME	446884.540	3760685.485	210.000
LOCATION VOL72	VOLUME	446978.679	3760685.485	209.010
LOCATION VOL73	VOLUME	447072.237	3760684.904	210.000
LOCATION VOL74	VOLUME	447167.538	3760685.485	210.000
LOCATION VOL75	VOLUME	447169.281	3760618.658	209.280
LOCATION VOL76	VOLUME	447073.980	3760592.509	209.930
LOCATION VOL77	VOLUME	446979.260	3760591.928	209.510
LOCATION VOL78	VOLUME	446885.121	3760590.184	207.000
LOCATION VOL79	VOLUME	446881.054	3760504.181	207.000
LOCATION VOL80	VOLUME	446976.355	3760537.885	208.650
LOCATION VOL81	VOLUME	447071.656	3760573.332	209.830
LOCATION AREA1	AREA	446307.790	3760807.680	206.000
LOCATION AREA2	AREA	446842.340	3760732.660	210.000
LOCATION AREA3	AREA	446837.290	3760571.920	207.000
LOCATION AREA4	AREA	446836.660	3760494.390	207.000
LOCATION AREA5	AREA	446833.510	3760468.540	207.000
LOCATION AREA6	AREA	447213.930	3760700.730	210.000
LOCATION AREA7	AREA	447214.700	3760668.620	209.220
LOCATION AREA8	AREA	447216.070	3760627.170	209.000
LOCATION AREA9	AREA	447216.000	3760609.970	209.000

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.000354054	5.000	21.684	1.400
SRCPARAM VOL2	0.000354054	5.000	21.684	1.400
SRCPARAM VOL3	0.000354054	5.000	21.684	1.400
SRCPARAM VOL5	0.000354054	5.000	21.684	1.400



SRCPARAM	VOL71	0.000354054	5.000	21.684	1.400		
SRCPARAM	VOL72	0.000354054	5.000	21.684	1.400		
SRCPARAM	VOL73	0.000354054	5.000	21.684	1.400		
SRCPARAM	VOL74	0.000354054	5.000	21.684	1.400		
SRCPARAM	VOL75	0.000354054	5.000	21.684	1.400		
SRCPARAM	VOL76	0.000354054	5.000	21.684	1.400		
SRCPARAM	VOL77	0.000354054	5.000	21.684	1.400		
SRCPARAM	VOL78	0.000354054	5.000	21.684	1.400		
SRCPARAM	VOL79	0.000354054	5.000	21.684	1.400		
SRCPARAM	VOL80	0.000354054	5.000	21.684	1.400		
SRCPARAM	VOL81	0.000354054	5.000	21.684	1.400		
SRCPARAM	AREA1	1.1477E-07	0.000	489.160	368.130	0.000	1.000
SRCPARAM	AREA2	1.1477E-07	0.000	371.910	444.400	0.000	1.000
SRCPARAM	AREA3	1.1477E-07	0.000	378.220	157.590	0.000	1.000
SRCPARAM	AREA4	1.1477E-07	0.000	184.070	75.640	0.000	1.000
SRCPARAM	AREA5	1.1477E-07	0.000	132.380	22.690	0.000	1.000
SRCPARAM	AREA6	1.1477E-07	0.000	386.390	473.160	0.000	1.000
SRCPARAM	AREA7	1.1477E-07	0.000	286.030	30.970	0.000	1.000
SRCPARAM	AREA8	1.1477E-07	0.000	180.820	40.080	0.000	1.000
SRCPARAM	AREA9	1.1477E-07	0.000	130.290	16.880	0.000	1.000
URBANSRC	ALL						

\*\* Variable Emissions Type: "By Hour / Day (HRDOW)"

\*\* Variable Emission Scenario: "Scenario 1"

\*\* WeekDays:

EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	VOL1	HRDOW	1.0	1.0	1.0	1.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Saturday:

EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Sunday:

EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* WeekDays:

EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	VOL2	HRDOW	1.0	1.0	1.0	1.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Saturday:

EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Sunday:

EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* WeekDays:

EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	VOL3	HRDOW	1.0	1.0	1.0	1.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Saturday:

EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Sunday:

EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
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EMISFACT AREA6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT AREA6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT AREA7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA7      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT AREA7      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT AREA7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT AREA7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT AREA7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT AREA8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA8      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT AREA8      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT AREA8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT AREA8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT AREA8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT AREA9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA9      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT AREA9      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT AREA9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT AREA9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT AREA9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
SRCGROUP ALL

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SO FINISHED

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\*\* AERMOD Receptor Pathway

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RE STARTING

INCLUDED "14252 Cons PM25.rou"

RE FINISHED

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\*\* AERMOD Meteorology Pathway

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\*\*

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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 24 1ST

\*\* Auto-Generated Plotfiles

PLOTFILE 24 ALL 1ST "14252 CONS PM25.AD\24H1GALL.PLT" 31  
SUMMFILE "14252 Cons PM25.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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** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.0.0
** Lakes Environmental Software Inc.
** Date: 9/23/2022
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29 AQIA\14252 Cons PM25\14252 Cons
PM25.ADI
**
```

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*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
```

```
CO STARTING
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29 AQIA\14252 Ops
MODELOPT DFAULT CONC
AVERTIME 24
URBANOPT 2035210
POLLUTID PM_2.5
FLAGPOLE 2.00
RUNORNOT RUN
ERRORFIL "14252 Cons PM25.err"
```

```
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
```

```
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
```

Source ID	Type	X Coord.	Y Coord.	
LOCATION VOL1	VOLUME	446353.525	3761131.686	210.000
LOCATION VOL2	VOLUME	446446.125	3761131.042	210.490
LOCATION VOL3	VOLUME	446539.533	3761130.447	211.160
LOCATION VOL5	VOLUME	446726.282	3761130.182	213.760
LOCATION VOL4	VOLUME	446633.040	3761129.753	212.700
LOCATION VOL6	VOLUME	446765.912	3761130.249	214.410
LOCATION VOL7	VOLUME	446765.912	3761036.279	213.290
LOCATION VOL8	VOLUME	446671.941	3761036.279	211.830
LOCATION VOL9	VOLUME	446577.377	3761036.279	210.730
LOCATION VOL10	VOLUME	446482.812	3761036.279	209.630
LOCATION VOL11	VOLUME	446389.436	3761038.063	208.600
LOCATION VOL12	VOLUME	446353.751	3760945.877	207.050
LOCATION VOL13	VOLUME	446446.532	3760945.282	208.070
LOCATION VOL14	VOLUME	446541.692	3760943.498	209.100
LOCATION VOL15	VOLUME	446633.283	3760942.903	210.100
LOCATION VOL16	VOLUME	446726.658	3760943.498	210.240
LOCATION VOL17	VOLUME	446755.206	3760943.498	210.770
LOCATION VOL18	VOLUME	446748.664	3760849.528	210.000
LOCATION VOL19	VOLUME	446655.883	3760850.122	209.000
LOCATION VOL20	VOLUME	446563.103	3760850.122	208.020
LOCATION VOL21	VOLUME	446470.322	3760860.233	207.480
LOCATION VOL22	VOLUME	446354.346	3761039.252	208.430
LOCATION VOL23	VOLUME	446376.946	3760860.828	207.000
LOCATION VOL24	VOLUME	446353.751	3760857.854	207.000
LOCATION VOL25	VOLUME	446885.787	3761133.683	216.000
LOCATION VOL26	VOLUME	446980.128	3761132.999	216.000
LOCATION VOL27	VOLUME	447072.419	3761132.316	216.000
LOCATION VOL28	VOLUME	447165.393	3761130.948	214.900

LOCATION VOL29	VOLUME	447166.104	3761038.359	214.000
LOCATION VOL30	VOLUME	447072.257	3761040.335	214.000
LOCATION VOL31	VOLUME	446979.399	3761039.347	214.440
LOCATION VOL32	VOLUME	446885.553	3761040.335	214.470
LOCATION VOL33	VOLUME	446886.540	3760946.983	213.100
LOCATION VOL34	VOLUME	446979.893	3760946.983	213.000
LOCATION VOL35	VOLUME	447073.739	3760948.464	213.090
LOCATION VOL36	VOLUME	447168.080	3760946.489	213.000
LOCATION VOL37	VOLUME	447169.561	3760852.148	212.130
LOCATION VOL38	VOLUME	447076.209	3760854.618	213.210
LOCATION VOL39	VOLUME	446979.893	3760854.618	213.010
LOCATION VOL40	VOLUME	446888.516	3760854.124	210.510
LOCATION VOL41	VOLUME	446886.540	3760779.541	210.000
LOCATION VOL42	VOLUME	446980.881	3760778.553	211.450
LOCATION VOL43	VOLUME	447074.233	3760778.059	210.000
LOCATION VOL44	VOLUME	447167.586	3760778.553	210.740
LOCATION VOL45	VOLUME	447261.542	3761130.609	213.790
LOCATION VOL46	VOLUME	447354.654	3761130.611	213.000
LOCATION VOL47	VOLUME	447448.792	3761131.192	212.500
LOCATION VOL48	VOLUME	447542.931	3761129.449	212.880
LOCATION VOL49	VOLUME	447566.175	3761130.030	213.000
LOCATION VOL50	VOLUME	447566.175	3761036.472	212.000
LOCATION VOL51	VOLUME	447473.199	3761037.634	212.000
LOCATION VOL52	VOLUME	447380.222	3761037.053	212.000
LOCATION VOL53	VOLUME	447286.664	3761035.891	213.000
LOCATION VOL54	VOLUME	447260.515	3761035.310	213.000
LOCATION VOL55	VOLUME	447262.258	3760942.333	212.000
LOCATION VOL56	VOLUME	447354.654	3760943.496	211.240
LOCATION VOL57	VOLUME	447447.630	3760945.239	211.000
LOCATION VOL58	VOLUME	447539.445	3760944.077	211.000
LOCATION VOL59	VOLUME	447561.527	3760944.077	211.000
LOCATION VOL60	VOLUME	447551.648	3760851.100	210.000
LOCATION VOL61	VOLUME	447456.928	3760852.262	210.000
LOCATION VOL62	VOLUME	447362.208	3760851.100	210.360
LOCATION VOL63	VOLUME	447269.812	3760849.938	211.040
LOCATION VOL64	VOLUME	447263.420	3760755.799	210.000
LOCATION VOL65	VOLUME	447356.397	3760756.380	210.000
LOCATION VOL66	VOLUME	447450.536	3760756.961	209.310
LOCATION VOL67	VOLUME	447546.418	3760758.704	209.000
LOCATION VOL68	VOLUME	447264.582	3760669.214	209.100
LOCATION VOL69	VOLUME	447358.721	3760702.918	209.080
LOCATION VOL70	VOLUME	447453.441	3760726.163	209.000
LOCATION VOL71	VOLUME	446884.540	3760685.485	210.000
LOCATION VOL72	VOLUME	446978.679	3760685.485	209.010
LOCATION VOL73	VOLUME	447072.237	3760684.904	210.000
LOCATION VOL74	VOLUME	447167.538	3760685.485	210.000
LOCATION VOL75	VOLUME	447169.281	3760618.658	209.280
LOCATION VOL76	VOLUME	447073.980	3760592.509	209.930
LOCATION VOL77	VOLUME	446979.260	3760591.928	209.510
LOCATION VOL78	VOLUME	446885.121	3760590.184	207.000
LOCATION VOL79	VOLUME	446881.054	3760504.181	207.000
LOCATION VOL80	VOLUME	446976.355	3760537.885	208.650
LOCATION VOL81	VOLUME	447071.656	3760573.332	209.830
LOCATION AREA1	AREA	446307.790	3760807.680	206.000
LOCATION AREA2	AREA	446842.340	3760732.660	210.000
LOCATION AREA3	AREA	446837.290	3760571.920	207.000
LOCATION AREA4	AREA	446836.660	3760494.390	207.000
LOCATION AREA5	AREA	446833.510	3760468.540	207.000
LOCATION AREA6	AREA	447213.930	3760700.730	210.000
LOCATION AREA7	AREA	447214.700	3760668.620	209.220
LOCATION AREA8	AREA	447216.070	3760627.170	209.000
LOCATION AREA9	AREA	447216.000	3760609.970	209.000

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.000354054	5.000	21.684	1.400
SRCPARAM VOL2	0.000354054	5.000	21.684	1.400
SRCPARAM VOL3	0.000354054	5.000	21.684	1.400



SRCPARAM	VOL70	0.000354054	5.000	21.684	1.400		
SRCPARAM	VOL71	0.000354054	5.000	21.684	1.400		
SRCPARAM	VOL72	0.000354054	5.000	21.684	1.400		
SRCPARAM	VOL73	0.000354054	5.000	21.684	1.400		
SRCPARAM	VOL74	0.000354054	5.000	21.684	1.400		
SRCPARAM	VOL75	0.000354054	5.000	21.684	1.400		
SRCPARAM	VOL76	0.000354054	5.000	21.684	1.400		
SRCPARAM	VOL77	0.000354054	5.000	21.684	1.400		
SRCPARAM	VOL78	0.000354054	5.000	21.684	1.400		
SRCPARAM	VOL79	0.000354054	5.000	21.684	1.400		
SRCPARAM	VOL80	0.000354054	5.000	21.684	1.400		
SRCPARAM	VOL81	0.000354054	5.000	21.684	1.400		
SRCPARAM	AREA1	1.1477E-07	0.000	489.160	368.130	0.000	1.000
SRCPARAM	AREA2	1.1477E-07	0.000	371.910	444.400	0.000	1.000
SRCPARAM	AREA3	1.1477E-07	0.000	378.220	157.590	0.000	1.000
SRCPARAM	AREA4	1.1477E-07	0.000	184.070	75.640	0.000	1.000
SRCPARAM	AREA5	1.1477E-07	0.000	132.380	22.690	0.000	1.000
SRCPARAM	AREA6	1.1477E-07	0.000	386.390	473.160	0.000	1.000
SRCPARAM	AREA7	1.1477E-07	0.000	286.030	30.970	0.000	1.000
SRCPARAM	AREA8	1.1477E-07	0.000	180.820	40.080	0.000	1.000
SRCPARAM	AREA9	1.1477E-07	0.000	130.290	16.880	0.000	1.000
URBANSRC	ALL						

\*\* Variable Emissions Type: "By Hour / Day (HRDOW)"

\*\* Variable Emission Scenario: "Scenario 1"

\*\* WeekDays:

EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	VOL1	HRDOW	1.0	1.0	1.0	1.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Saturday:

EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Sunday:

EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL1	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* WeekDays:

EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	VOL2	HRDOW	1.0	1.0	1.0	1.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Saturday:

EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Sunday:

EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL2	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* WeekDays:

EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	VOL3	HRDOW	1.0	1.0	1.0	1.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Saturday:

EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0

\*\* Sunday:













































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** Saturday:
EMISFACT AREA6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT AREA6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA6      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT AREA7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA7      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT AREA7      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT AREA7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT AREA7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT AREA7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA7      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT AREA8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA8      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT AREA8      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT AREA8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT AREA8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT AREA8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA8      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT AREA9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA9      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT AREA9      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT AREA9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT AREA9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT AREA9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT AREA9      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
SRCGROUP ALL

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SO FINISHED

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\*\*\*\*\*

\*\* AERMOD Receptor Pathway  
\*\*\*\*\*

\*\*  
\*\*

RE STARTING  
INCLUDED "14252 Cons PM25.rou"

RE FINISHED

\*\*  
\*\*\*\*\*  
\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*  
\*\*  
\*\*

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 24 1ST  
\*\* Auto-Generated Plotfiles  
PLOTFILE 24 ALL 1ST "14252 CONS PM25.AD\24H1GALL.PLT" 31  
SUMMFILE "14252 Cons PM25.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 1595 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 1595 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

\*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29  
AQIA\14252 Ops \*\*\* 09/23/22  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:35:13

PAGE 1

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.

```

* Model Uses NO DRY DEPLETION. DDPLETE = F
* Model Uses NO WET DEPLETION. WETDPLT = F
* Stack-tip Downwash.
* Model Accounts for ELEVated Terrain Effects.
* Use Calms Processing Routine.
* Use Missing Data Processing Routine.
* No Exponential Decay.
* Model Uses URBAN Dispersion Algorithm for the SBL for 90 Source(s),
  for Total of 1 Urban Area(s):
Urban Population = 2035210.0 ; Urban Roughness Length = 1.000 m
* Urban Roughness Length of 1.0 Meter Used.
* 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 Accepts FLAGPOLE Receptor . Heights.
* The User Specified a Pollutant Type of: PM_2.5

**Model Calculates 1 Short Term Average(s) of: 24-HR

**This Run Includes: 90 Source(s); 1 Source Group(s); and 81 Receptor(s)

      with: 0 POINT(s), including
            0 POINTCAP(s) and 0 POINTHOR(s)
      and: 81 VOLUME source(s)
      and: 9 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 a total of 0 line(s)
      and: 0 SWPOINT source(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 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 = 3.6 MB of RAM.

**Input Runstream File:
aermod.inp
**Output Print File:
aermod.out

**Detailed Error/Message File: 14252 Cons
PM25.err
**File for Summary of Results: 14252 Cons
PM25.sum

```

 \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29  
AQIA\14252 Ops \*\*\* 09/23/22  
\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION	RATE			BASE	RELEASE	INIT.	INIT.
SOURCE	URBAN	EMISSION	RATE						
SOURCE	PART.	(GRAMS/SEC)		X	Y	ELEV.	HEIGHT	SY	SZ
ID	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	
(METERS)	CATS.	BY							
VOL1	0	0.35405E-03		446353.5	3761131.7	210.0	5.00	21.68	1.40
YES	HRDOW								
VOL2	0	0.35405E-03		446446.1	3761131.0	210.5	5.00	21.68	1.40
YES	HRDOW								
VOL3	0	0.35405E-03		446539.5	3761130.4	211.2	5.00	21.68	1.40
YES	HRDOW								
VOL5	0	0.35405E-03		446726.3	3761130.2	213.8	5.00	21.68	1.40
YES	HRDOW								
VOL4	0	0.35405E-03		446633.0	3761129.8	212.7	5.00	21.68	1.40
YES	HRDOW								
VOL6	0	0.35405E-03		446765.9	3761130.2	214.4	5.00	21.68	1.40
YES	HRDOW								
VOL7	0	0.35405E-03		446765.9	3761036.3	213.3	5.00	21.68	1.40
YES	HRDOW								
VOL8	0	0.35405E-03		446671.9	3761036.3	211.8	5.00	21.68	1.40
YES	HRDOW								
VOL9	0	0.35405E-03		446577.4	3761036.3	210.7	5.00	21.68	1.40
YES	HRDOW								
VOL10	0	0.35405E-03		446482.8	3761036.3	209.6	5.00	21.68	1.40
YES	HRDOW								
VOL11	0	0.35405E-03		446389.4	3761038.1	208.6	5.00	21.68	1.40
YES	HRDOW								
VOL12	0	0.35405E-03		446353.8	3760945.9	207.1	5.00	21.68	1.40
YES	HRDOW								
VOL13	0	0.35405E-03		446446.5	3760945.3	208.1	5.00	21.68	1.40
YES	HRDOW								
VOL14	0	0.35405E-03		446541.7	3760943.5	209.1	5.00	21.68	1.40
YES	HRDOW								
VOL15	0	0.35405E-03		446633.3	3760942.9	210.1	5.00	21.68	1.40
YES	HRDOW								
VOL16	0	0.35405E-03		446726.7	3760943.5	210.2	5.00	21.68	1.40
YES	HRDOW								
VOL17	0	0.35405E-03		446755.2	3760943.5	210.8	5.00	21.68	1.40
YES	HRDOW								
VOL18	0	0.35405E-03		446748.7	3760849.5	210.0	5.00	21.68	1.40
YES	HRDOW								
VOL19	0	0.35405E-03		446655.9	3760850.1	209.0	5.00	21.68	1.40
YES	HRDOW								
VOL20	0	0.35405E-03		446563.1	3760850.1	208.0	5.00	21.68	1.40
YES	HRDOW								
VOL21	0	0.35405E-03		446470.3	3760860.2	207.5	5.00	21.68	1.40
YES	HRDOW								
VOL22	0	0.35405E-03		446354.3	3761039.3	208.4	5.00	21.68	1.40
YES	HRDOW								
VOL23	0	0.35405E-03		446376.9	3760860.8	207.0	5.00	21.68	1.40
YES	HRDOW								
VOL24	0	0.35405E-03		446353.8	3760857.9	207.0	5.00	21.68	1.40
YES	HRDOW								
VOL25	0	0.35405E-03		446885.8	3761133.7	216.0	5.00	21.68	1.40





YES	HRDOW								
VOL49		0	0.35405E-03	447566.2	3761130.0	213.0	5.00	21.68	1.40
YES	HRDOW								
VOL50		0	0.35405E-03	447566.2	3761036.5	212.0	5.00	21.68	1.40
YES	HRDOW								
VOL51		0	0.35405E-03	447473.2	3761037.6	212.0	5.00	21.68	1.40
YES	HRDOW								
VOL52		0	0.35405E-03	447380.2	3761037.1	212.0	5.00	21.68	1.40
YES	HRDOW								
VOL53		0	0.35405E-03	447286.7	3761035.9	213.0	5.00	21.68	1.40
YES	HRDOW								
VOL54		0	0.35405E-03	447260.5	3761035.3	213.0	5.00	21.68	1.40
YES	HRDOW								
VOL55		0	0.35405E-03	447262.3	3760942.3	212.0	5.00	21.68	1.40
YES	HRDOW								
VOL56		0	0.35405E-03	447354.7	3760943.5	211.2	5.00	21.68	1.40
YES	HRDOW								
VOL57		0	0.35405E-03	447447.6	3760945.2	211.0	5.00	21.68	1.40
YES	HRDOW								
VOL58		0	0.35405E-03	447539.4	3760944.1	211.0	5.00	21.68	1.40
YES	HRDOW								
VOL59		0	0.35405E-03	447561.5	3760944.1	211.0	5.00	21.68	1.40
YES	HRDOW								
VOL60		0	0.35405E-03	447551.6	3760851.1	210.0	5.00	21.68	1.40
YES	HRDOW								
VOL61		0	0.35405E-03	447456.9	3760852.3	210.0	5.00	21.68	1.40
YES	HRDOW								
VOL62		0	0.35405E-03	447362.2	3760851.1	210.4	5.00	21.68	1.40
YES	HRDOW								
VOL63		0	0.35405E-03	447269.8	3760849.9	211.0	5.00	21.68	1.40
YES	HRDOW								
VOL64		0	0.35405E-03	447263.4	3760755.8	210.0	5.00	21.68	1.40
YES	HRDOW								
VOL65		0	0.35405E-03	447356.4	3760756.4	210.0	5.00	21.68	1.40
YES	HRDOW								
VOL66		0	0.35405E-03	447450.5	3760757.0	209.3	5.00	21.68	1.40
YES	HRDOW								
VOL67		0	0.35405E-03	447546.4	3760758.7	209.0	5.00	21.68	1.40
YES	HRDOW								
VOL68		0	0.35405E-03	447264.6	3760669.2	209.1	5.00	21.68	1.40
YES	HRDOW								
VOL69		0	0.35405E-03	447358.7	3760702.9	209.1	5.00	21.68	1.40
YES	HRDOW								
VOL70		0	0.35405E-03	447453.4	3760726.2	209.0	5.00	21.68	1.40
YES	HRDOW								
VOL71		0	0.35405E-03	446884.5	3760685.5	210.0	5.00	21.68	1.40
YES	HRDOW								
VOL72		0	0.35405E-03	446978.7	3760685.5	209.0	5.00	21.68	1.40
YES	HRDOW								
VOL73		0	0.35405E-03	447072.2	3760684.9	210.0	5.00	21.68	1.40
YES	HRDOW								
VOL74		0	0.35405E-03	447167.5	3760685.5	210.0	5.00	21.68	1.40
YES	HRDOW								
VOL75		0	0.35405E-03	447169.3	3760618.7	209.3	5.00	21.68	1.40
YES	HRDOW								
VOL76		0	0.35405E-03	447074.0	3760592.5	209.9	5.00	21.68	1.40
YES	HRDOW								
VOL77		0	0.35405E-03	446979.3	3760591.9	209.5	5.00	21.68	1.40
YES	HRDOW								
VOL78		0	0.35405E-03	446885.1	3760590.2	207.0	5.00	21.68	1.40
YES	HRDOW								
VOL79		0	0.35405E-03	446881.1	3760504.2	207.0	5.00	21.68	1.40
YES	HRDOW								
VOL80		0	0.35405E-03	446976.4	3760537.9	208.7	5.00	21.68	1.40
YES	HRDOW								

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION RATE			BASE	RELEASE	INIT.	INIT.
SOURCE	URBAN	EMISSION RATE	X	Y	ELEV.	HEIGHT	SY	SZ
ID	PART.	(GRAMS/SEC)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	CATS.	BY						

VOL81 0 0.35405E-03 447071.7 3760573.3 209.8 5.00 21.68 1.40

YES HRDOW

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* AREA SOURCE DATA \*\*\*

SOURCE	NUMBER	EMISSION RATE	COORD (SW CORNER)	BASE	RELEASE	X-DIM	Y-DIM	
AREA	ORIENT.	INIT.	URBAN	EMISSION RATE				OF
AREA	PART.	(GRAMS/SEC	X	Y	ELEV.	HEIGHT	OF AREA	OF AREA
ID	CATS.	/METER**2)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(DEG.)	(METERS)	BY						

AREA1 0 0.11477E-06 446307.8 3760807.7 206.0 0.00 489.16 368.13

0.00 1.00 YES HRDOW

AREA2 0 0.11477E-06 446842.3 3760732.7 210.0 0.00 371.91 444.40

0.00 1.00 YES HRDOW

AREA3 0 0.11477E-06 446837.3 3760571.9 207.0 0.00 378.22 157.59

0.00 1.00 YES HRDOW

AREA4 0 0.11477E-06 446836.7 3760494.4 207.0 0.00 184.07 75.64

0.00 1.00 YES HRDOW

AREA5 0 0.11477E-06 446833.5 3760468.5 207.0 0.00 132.38 22.69

0.00 1.00 YES HRDOW

AREA6 0 0.11477E-06 447213.9 3760700.7 210.0 0.00 386.39 473.16

0.00 1.00 YES HRDOW

AREA7 0 0.11477E-06 447214.7 3760668.6 209.2 0.00 286.03 30.97

0.00 1.00 YES HRDOW

AREA8 0 0.11477E-06 447216.1 3760627.2 209.0 0.00 180.82 40.08

0.00 1.00 YES HRDOW

AREA9 0 0.11477E-06 447216.0 3760610.0 209.0 0.00 130.29 16.88

0.00 1.00 YES HRDOW

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID

SOURCE IDs

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ALL      VOL1      , VOL2      , VOL3      , VOL5      , VOL4      , VOL6      ,
VOL7     , VOL8      ,

VOL9     , VOL10    , VOL11    , VOL12    , VOL13    , VOL14    ,
VOL15    , VOL16    ,

VOL17    , VOL18    , VOL19    , VOL20    , VOL21    , VOL22    ,
VOL23    , VOL24    ,

VOL25    , VOL26    , VOL27    , VOL28    , VOL29    , VOL30    ,
VOL31    , VOL32    ,

VOL33    , VOL34    , VOL35    , VOL36    , VOL37    , VOL38    ,
VOL39    , VOL40    ,

VOL41    , VOL42    , VOL43    , VOL44    , VOL45    , VOL46    ,
VOL47    , VOL48    ,

VOL49    , VOL50    , VOL51    , VOL52    , VOL53    , VOL54    ,
VOL55    , VOL56    ,

VOL57    , VOL58    , VOL59    , VOL60    , VOL61    , VOL62    ,
VOL63    , VOL64    ,

VOL65    , VOL66    , VOL67    , VOL68    , VOL69    , VOL70    ,
VOL71    , VOL72    ,

VOL73    , VOL74    , VOL75    , VOL76    , VOL77    , VOL78    ,
VOL79    , VOL80    ,

VOL81    , AREA1    , AREA2    , AREA3    , AREA4    , AREA5    ,
AREA6    , AREA7    ,

AREA8    , AREA9    ,
  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

URBAN ID

URBAN POP

SOURCE IDs

-----

-----

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VOL8     2035210. VOL1      , VOL2      , VOL3      , VOL5      , VOL4      ,
VOL6     , VOL7      ,

VOL9     , VOL10    , VOL11    , VOL12    , VOL13    , VOL14    ,
VOL15    , VOL16    ,

VOL17    , VOL18    , VOL19    , VOL20    , VOL21    , VOL22    ,
VOL23    , VOL24    ,
  
```

VOL25 , VOL26 , VOL27 , VOL28 , VOL29 , VOL30 ,  
VOL31 , VOL32 , ,  
VOL33 , VOL34 , VOL35 , VOL36 , VOL37 , VOL38 ,  
VOL39 , VOL40 , ,  
VOL41 , VOL42 , VOL43 , VOL44 , VOL45 , VOL46 ,  
VOL47 , VOL48 , ,  
VOL49 , VOL50 , VOL51 , VOL52 , VOL53 , VOL54 ,  
VOL55 , VOL56 , ,  
VOL57 , VOL58 , VOL59 , VOL60 , VOL61 , VOL62 ,  
VOL63 , VOL64 , ,  
VOL65 , VOL66 , VOL67 , VOL68 , VOL69 , VOL70 ,  
VOL71 , VOL72 , ,  
VOL73 , VOL74 , VOL75 , VOL76 , VOL77 , VOL78 ,  
VOL79 , VOL80 , ,  
VOL81 , AREA1 , AREA2 , AREA3 , AREA4 , AREA5 ,  
AREA6 , AREA7 , ,  
AREA8 , AREA9 ,

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL1 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR
SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY										
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6
	.0000E+00	7	.0000E+00	8	.0000E+00					
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14
	.1000E+01	15	.1000E+01	16	.1000E+01					
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22
	.0000E+00	23	.0000E+00	24	.0000E+00					
DAY OF WEEK = SATURDAY										
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6
	.0000E+00	7	.0000E+00	8	.0000E+00					
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14
	.0000E+00	15	.0000E+00	16	.0000E+00					
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22
	.0000E+00	23	.0000E+00	24	.0000E+00					
DAY OF WEEK = SUNDAY										
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6
	.0000E+00	7	.0000E+00	8	.0000E+00					
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14
	.0000E+00	15	.0000E+00	16	.0000E+00					
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22
	.0000E+00	23	.0000E+00	24	.0000E+00					

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL2 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL3 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6

.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL5 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL4 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL6 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL7 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL8 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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AQIA\14252 Ops \*\*\* 09/23/22
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*



\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL9 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

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 AQIA\14252 Ops \*\*\* 09/23/22

\*\*\* AERMET - VERSION 16216 \*\*\*

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL10 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL11 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL12 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00

.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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AQIA\14252 Ops \*\*\* 09/23/22

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL13 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

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DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL14 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

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DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL15 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

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DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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AQIA\14252 Ops \*\*\* 09/23/22

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL16 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR

SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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AQIA\14252 Ops \*\*\* 09/23/22
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL17 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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AQIA\14252 Ops \*\*\* 09/23/22
\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\* 10:35:13

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL18 ; SOURCE TYPE = VOLUME :
HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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AQIA\14252 Ops \*\*\* 09/23/22

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 10:35:13

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL19 ; SOURCE TYPE = VOLUME :
HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14

.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00  
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AQIA\14252 Ops \*\*\* 09/23/22  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:35:13

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL20 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL21 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL22 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL23 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6



.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL24 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL25 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
 (HRDOW) \*

SOURCE ID = VOL26 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL27 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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AQIA\14252 Ops \*\*\* 09/23/22  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL28 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL29 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* AERMET - VERSION 16216 \*\*\*  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL30 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* AERMET - VERSION 16216 \*\*\*
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL31 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL32 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	
	.1000E+01	15	.1000E+01	16	.1000E+01						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL33 ; SOURCE TYPE = VOLUME :

1	SCALAR	2	SCALAR	3	SCALAR	4	SCALAR	5	SCALAR	6	SCALAR
7	SCALAR	8	SCALAR	9	SCALAR	10	SCALAR	11	SCALAR	12	SCALAR
13	SCALAR	14	SCALAR	15	SCALAR	16	SCALAR	17	SCALAR	18	SCALAR
19	SCALAR	20	SCALAR	21	SCALAR	22	SCALAR	23	SCALAR	24	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	
	.1000E+01	15	.1000E+01	16	.1000E+01						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	
	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	
	.0000E+00	15	.0000E+00	16	.0000E+00						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	
	.0000E+00	23	.0000E+00	24	.0000E+00						

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL34 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL35 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00

.0000E+00 23 .0000E+00 24 .0000E+00  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL36 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL37 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00



17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL38 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL39 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14

.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL40 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL41 ; SOURCE TYPE = VOLUME :

HR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL42 ; SOURCE TYPE = VOLUME :  
HR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL43 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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AQIA\14252 Ops \*\*\* 09/23/22
\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\* 10:35:13

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL44 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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AQIA\14252 Ops \*\*\* 09/23/22  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:35:13

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL45 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* 10:35:13

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL46 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6

.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* AERMET - VERSION 16216 \*\*\*

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL47 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL48 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL49 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK

(HRDOW) \*

SOURCE ID = VOL50 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL51 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL52 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

Table with 12 columns (HOUR, SCALAR) and 24 rows of data for Weekday.

DAY OF WEEK = SATURDAY

Table with 12 columns (HOUR, SCALAR) and 24 rows of data for Saturday.

DAY OF WEEK = SUNDAY

Table with 12 columns (HOUR, SCALAR) and 24 rows of data for Sunday.

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL53 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

Table with 12 columns (HOUR, SCALAR) and 24 rows of data for Weekday.

DAY OF WEEK = SATURDAY

Table with 12 columns (HOUR, SCALAR) and 24 rows of data for Saturday.

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL54 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* 10:35:13

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL55 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22

.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL56 ; SOURCE TYPE = VOLUME :

HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR
SCALAR HOURLY SCALAR HOURLY SCALAR

-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL57 ; SOURCE TYPE = VOLUME :

HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR
SCALAR HOURLY SCALAR HOURLY SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL58 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL59 ; SOURCE TYPE = VOLUME :

Hourly emission rate scalars for source VOL59, showing columns for HOUR and SCALAR for each day of the week.

DAY OF WEEK = WEEKDAY

Weekday emission rate scalars for source VOL59, with values ranging from 0.0000E+00 to 0.1000E+01.

DAY OF WEEK = SATURDAY

Saturday emission rate scalars for source VOL59, with values ranging from 0.0000E+00 to 0.0000E+00.

DAY OF WEEK = SUNDAY

Sunday emission rate scalars for source VOL59, with values ranging from 0.0000E+00 to 0.0000E+00.

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL60 ; SOURCE TYPE = VOLUME :

Hourly emission rate scalars for source VOL60, showing columns for HOUR and SCALAR for each day of the week.

DAY OF WEEK = WEEKDAY

Weekday emission rate scalars for source VOL60, with values ranging from 0.0000E+00 to 0.1000E+01.

DAY OF WEEK = SATURDAY

Saturday emission rate scalars for source VOL60, with values ranging from 0.0000E+00 to 0.0000E+00.

DAY OF WEEK = SUNDAY

Sunday emission rate scalars for source VOL60, with values ranging from 0.0000E+00 to 0.0000E+00.

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00  
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AQIA\14252 Ops \*\*\* 09/23/22  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL61 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL62 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14

.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL63 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL64 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00

9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL65 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*



SOURCE ID = VOL66 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL67 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL68 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

Table with 12 columns (1-12) and 6 rows of scalar values for Weekday.

DAY OF WEEK = SATURDAY

Table with 12 columns (1-12) and 6 rows of scalar values for Saturday.

DAY OF WEEK = SUNDAY

Table with 12 columns (1-12) and 6 rows of scalar values for Sunday.

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\*\*\* 10:35:13

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL69 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

Table with 12 columns (1-12) and 6 rows of scalar values for Weekday.

DAY OF WEEK = SATURDAY

Table with 12 columns (1-12) and 6 rows of scalar values for Saturday.

DAY OF WEEK = SUNDAY

Table with 12 columns (1-12) and 1 row of scalar values for Sunday.

.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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AQIA\14252 Ops \*\*\* 09/23/22  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL70 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL71 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL72 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL73 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = VOL74 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL75 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL76 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
 SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
 .0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL77 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL78 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00

.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* AERMET - VERSION 16216 \*\*\*

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL79 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

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DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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AQIA\14252 Ops \*\*\* 09/23/22

\*\*\* AERMET - VERSION 16216 \*\*\*

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL80 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

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DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01



17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = VOL81 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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AQIA\14252 Ops \*\*\* 09/23/22

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = AREA1 ; SOURCE TYPE = AREA :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR

SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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AQIA\14252 Ops \*\*\* 09/23/22
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) \*

SOURCE ID = AREA2 ; SOURCE TYPE = AREA :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* AERMET - VERSION 16216 \*\*\*
\*\*\* 10:35:13

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = AREA3 ; SOURCE TYPE = AREA :
HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

Table with 12 columns (Day, Hour, Scalar) for Weekday. Values range from .0000E+00 to .1000E+01.

DAY OF WEEK = SATURDAY

Table with 12 columns (Day, Hour, Scalar) for Saturday. All scalar values are .0000E+00.

DAY OF WEEK = SUNDAY

Table with 12 columns (Day, Hour, Scalar) for Sunday. All scalar values are .0000E+00.

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = AREA4 ; SOURCE TYPE = AREA :
HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR HOURLY SCALAR
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

Table with 12 columns (Day, Hour, Scalar) for Weekday. Values range from .0000E+00 to .1000E+01.

DAY OF WEEK = SATURDAY

Table with 12 columns (Day, Hour, Scalar) for Saturday. All scalar values are .0000E+00.

DAY OF WEEK = SUNDAY

Table with 12 columns (Day, Hour, Scalar) for Sunday. All scalar values are .0000E+00.

.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00  
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AQIA\14252 Ops \*\*\* 09/23/22  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = AREA5 ; SOURCE TYPE = AREA :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = AREA6 ; SOURCE TYPE = AREA :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = AREA7 ; SOURCE TYPE = AREA :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = AREA8 ; SOURCE TYPE = AREA :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6

.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*

SOURCE ID = AREA9 ; SOURCE TYPE = AREA :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR  
SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14  
.1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6  
.0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14  
.0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22  
.0000E+00 23 .0000E+00 24 .0000E+00

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)

(METERS)

( 446880.6, 3760419.5, 207.0, 207.0, 2.0); ( 446886.3, 3760422.3, 207.0, 207.0, 2.0);  
( 446909.2, 3760429.0, 207.0, 207.0, 2.0); ( 446932.4, 3760438.0, 207.3, 207.3, 2.0);  
( 446953.6, 3760447.2, 207.4, 207.4, 2.0); ( 446975.6, 3760454.9, 207.9, 207.9, 2.0);  
( 446990.2, 3760460.5, 208.0, 208.0, 2.0); ( 447027.1, 3760473.2, 208.0, 208.0, 2.0);  
( 447050.9, 3760483.6, 208.4, 208.4, 2.0); ( 447070.3, 3760490.6, 209.0, 209.0, 2.0);  
( 447089.8, 3760497.4, 209.0, 209.0, 2.0); ( 447109.3, 3760505.8, 208.9, 208.9, 2.0);  
( 447130.0, 3760512.9, 208.9, 208.9, 2.0); ( 447151.3, 3760520.7, 209.0, 209.0, 2.0);  
( 447193.4, 3760535.7, 208.6, 208.6, 2.0); ( 447230.8, 3760550.4, 208.1, 208.1, 2.0);  
( 447252.1, 3760557.7, 208.0, 208.0, 2.0); ( 447273.7, 3760565.5, 208.0, 208.0, 2.0);  
( 447292.7, 3760572.8, 208.0, 208.0, 2.0); ( 447339.1, 3760589.1, 208.0, 208.0, 2.0);  
( 447365.4, 3760597.9, 208.0, 208.0, 2.0); ( 447401.6, 3760610.9, 208.1, 208.1, 2.0);  
( 447434.1, 3760622.3, 208.0, 208.0, 2.0); ( 447468.0, 3760634.8, 208.0, 208.0, 2.0);  
( 447497.5, 3760645.0, 208.3, 208.3, 2.0); ( 447521.4, 3760652.6, 208.5, 208.5, 2.0);  
( 447547.0, 3760662.6, 208.9, 208.9, 2.0); ( 447578.8, 3760675.1, 209.0, 209.0, 2.0);  
( 447648.3, 3760700.8, 209.0, 209.0, 2.0); ( 447679.0, 3760712.0, 209.0, 209.0, 2.0);  
( 447705.1, 3760721.8, 209.0, 209.0, 2.0); ( 447666.0, 3760779.6, 209.8, 209.8, 2.0);  
( 447647.4, 3760831.4, 210.0, 210.0, 2.0); ( 447648.7, 3760893.4, 210.6, 210.6, 2.0);  
( 447649.4, 3760953.0, 211.0, 211.0, 2.0); ( 447648.7, 3760987.3, 211.7, 211.7, 2.0);  
( 447649.0, 3761070.7, 212.5, 212.5, 2.0); ( 447649.2, 3761155.1, 213.0, 213.0, 2.0);  
( 447577.5, 3761210.6, 213.1, 213.1, 2.0); ( 447650.0, 3761221.8, 214.0, 214.0, 2.0);  
( 446484.6, 3761227.3, 212.0, 212.0, 2.0); ( 446553.2, 3761230.1, 212.6, 212.6, 2.0);  
( 446513.5, 3761230.1, 212.0, 212.0, 2.0); ( 446297.9, 3761173.0, 210.0, 210.0, 2.0);  
( 446296.6, 3761131.3, 209.9, 209.9, 2.0); ( 446296.6, 3761111.8, 209.7, 209.7, 2.0);  
( 446296.8, 3761092.8, 209.2, 209.2, 2.0); ( 446295.8, 3761072.8, 209.0, 209.0, 2.0);  
( 446296.6, 3761056.1, 209.0, 209.0, 2.0); ( 446296.3, 3761037.7, 208.4, 208.4, 2.0);  
( 446296.3, 3761019.4, 208.0, 208.0, 2.0); ( 446295.3, 3761001.3, 208.0, 208.0, 2.0);  
( 446295.5, 3760982.3, 207.5, 207.5, 2.0); ( 446295.5, 3760963.7, 207.0, 207.0, 2.0);  
( 446294.6, 3760945.4, 207.0, 207.0, 2.0); ( 446295.3, 3760926.4, 207.0, 207.0, 2.0);  
( 446295.0, 3760909.8, 207.0, 207.0, 2.0); ( 446294.0, 3760894.8, 207.0, 207.0, 2.0);  
( 446294.4, 3760880.8, 207.0, 207.0, 2.0); ( 446294.6, 3760867.5, 206.8, 206.8, 2.0);  
( 446294.6, 3760853.6, 206.4, 206.4, 2.0); ( 446294.8, 3760835.3, 206.1, 206.1, 2.0);  
( 446294.2, 3760806.2, 206.0, 206.0, 2.0); ( 446391.7, 3760794.1, 207.0, 207.0, 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 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29  
 AQIA\14252 Ops \*\*\* 09/23/22

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 10:35:13

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR  
 SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): VOL1 , VOL2 ,  
 VOL3 , VOL5 , VOL4  
 VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
 VOL11 , VOL12 , VOL13 ,  
 VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
 VOL19 , VOL20 , VOL21 ,  
 VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
 VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF PM\_2.5 IN  
 MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
(M)	CONC	(YYMMDDHH)			
446880.58	3760419.47	0.19330	(14120224)	446886.26	
3760422.30	0.19866	(13122324)			
446909.21	3760429.01	0.21011	(13122324)	446932.42	
3760438.03	0.22318	(13122324)			
446953.64	3760447.19	0.25762	(12010924)	446975.65	
3760454.95	0.25780	(12010924)			
446990.22	3760460.49	0.24622	(12010924)	447027.12	
3760473.16	0.25593c	(14111124)			
447050.87	3760483.61	0.23309c	(14111124)	447070.35	
3760490.58	0.21533c	(14111124)			
447089.83	3760497.39	0.21323c	(14111124)	447109.31	
3760505.78	0.22031c	(14111124)			
447130.05	3760512.91	0.22468c	(14111124)	447151.27	
3760520.67	0.23103c	(14111124)			
447193.40	3760535.71	0.25755c	(14111124)	447230.77	
3760550.44	0.27381c	(14111124)			
447252.15	3760557.73	0.25663c	(14111124)	447273.69	
3760565.49	0.25291c	(14111124)			
447292.69	3760572.77	0.26287c	(14111124)	447339.09	
3760589.08	0.30659c	(14111124)			
447365.38	3760597.95	0.30594c	(14111124)	447401.65	
3760610.94	0.30934c	(14111124)			
447434.11	3760622.34	0.26533c	(14111124)	447468.00	
3760634.85	0.27111c	(14111124)			
447497.46	3760644.99	0.29085c	(14111124)	447521.37	
3760652.59	0.27412c	(14111124)			
447547.02	3760662.56	0.25774c	(14111124)	447578.85	
3760675.07	0.27246c	(14111124)			
447648.27	3760700.75	0.21948c	(13110424)	447678.99	

3760711.99	0.18283c	(12110124)	
447705.12	3760721.81	0.16052c	(12110124) 447665.99
3760779.58	0.23686c	(12120524)	
447647.36	3760831.38	0.31759c	(12120524) 447648.66
3760893.43	0.33185c	(12120524)	
447649.41	3760953.05	0.34491c	(12120524) 447648.66
3760987.33	0.34396c	(12120524)	
447648.95	3761070.72	0.33245c	(12120524) 447649.16
3761155.12	0.30972b	(12050124)	
447577.48	3761210.58	0.25121b	(12050124) 447650.04
3761221.76	0.23175b	(12050124)	
446484.62	3761227.34	0.16212	(14120324) 446553.20
3761230.07	0.16354	(14120324)	
446513.45	3761230.07	0.16089	(14120324) 446297.94
3761172.96	0.29449	(13012524)	
446296.64	3761131.30	0.34901	(13012524) 446296.64
3761111.82	0.35457	(13012424)	
446296.80	3761092.81	0.36890	(13012424) 446295.84
3761072.85	0.38411	(13012424)	
446296.64	3761056.07	0.40030	(13012424) 446296.32
3761037.69	0.41220	(12020624)	
446296.28	3761019.42	0.41180	(12020624) 446295.35
3761001.35	0.39914	(12020624)	
446295.54	3760982.34	0.40611	(13012424) 446295.54
3760963.71	0.41472	(12020624)	
446294.61	3760945.44	0.40868	(12020624) 446295.35
3760926.44	0.40816	(12020624)	
446294.98	3760909.85	0.39977	(13012424) 446294.05
3760894.76	0.39176	(13012424)	
446294.42	3760880.78	0.39135	(13012424) 446294.61
3760867.55	0.39002	(13012424)	
446294.61	3760853.58	0.37799	(13012424) 446294.79
3760835.32	0.37162	(12021524)	
446294.23	3760806.25	0.30678	(12021524) 446391.69
3760794.13	0.33742	(14120124)	
446312.31	3760780.16	0.23711	(12021524) 446292.56
3760779.60	0.21446	(12021524)	
446269.45	3760780.35	0.18008	(14122624) 446411.66
3760789.09	0.30633	(14120124)	
446496.51	3760770.27	0.23978	(14120124) 446584.98
3760778.00	0.27390	(14120124)	
446615.93	3760779.55	0.27669	(14120124) 446705.94
3760782.13	0.27672	(14120124)	
446782.80	3760775.68	0.27134c	(14111124) 446784.09
3760707.08	0.23788	(12020624)	
446784.60	3760693.41	0.23715	(12020624) 446791.57
3760568.06	0.23658	(14120124)	
446786.66	3760636.15	0.22719	(14120124) 446793.89
3760530.92	0.23561	(14120124)	
446792.60	3760439.36	0.18541c	(13110524) 446796.58
3760367.99	0.12684	(14120224)	

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29  
AQIA\14252 Ops \*\*\* 09/23/22

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*

\*\*\* 10:35:13

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL5 , VOL4  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,

VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN  
MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
446708.26	3760360.35	0.10235c			
(13110524)					

\*\*\* AERMOD - VERSION 22112 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29  
AQIA\14252 Ops \*\*\* 09/23/22  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* \*\* 10:35:13

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 24-HR RESULTS \*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN  
MICROGRAMS/M\*\*3 \*\*

GROUP ID	AVERAGE CONC	(YYMMDDHH)	NETWORK
ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID	RECEPTOR (XR, YR,
ALL HIGH 1ST HIGH VALUE IS	0.41472	ON 12020624: AT (	446295.54, 3760963.71,
207.00, 207.00, 2.00) DC			

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

\*\*\* AERMOD - VERSION 22112 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29  
AQIA\14252 Ops \*\*\* 09/23/22  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* \*\* 10:35:13

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- 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 1595 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 1595 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*

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**APPENDIX 3.5:**

**AERMOD LST MODELING OUTPUT – OPERATION**

```

**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.0.0
** Lakes Environmental Software Inc.
** Date: 9/22/2022
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29 AQIA\14252 Ops CO\14252 Ops CO.ADI
**

```

```

*****
**
**
*****
** AERMOD Control Pathway
*****

```

```

**
**
CO STARTING
  TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29 AQIA\14252 Ops
  MODELOPT DFAULT CONC
  AVERTIME 1 8
  URBANOPT 2035210
  POLLUTID CO
  FLAGPOLE 2.00
  RUNORNOT RUN
  ERRORFIL "14252 Ops CO.err"

```

```

CO FINISHED
**
*****
** AERMOD Source Pathway
*****

```

```

**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **

```

LOCATION	VOL	VOLUME	X Coord.	Y Coord.
LOCATION VOL1	VOLUME	446353.525	3761131.686	210.000
LOCATION VOL2	VOLUME	446446.125	3761131.042	210.490
LOCATION VOL3	VOLUME	446539.533	3761130.447	211.160
LOCATION VOL4	VOLUME	446633.040	3761129.753	212.700
LOCATION VOL5	VOLUME	446726.282	3761130.182	213.760
LOCATION VOL6	VOLUME	446765.912	3761130.249	214.410
LOCATION VOL7	VOLUME	446765.912	3761036.279	213.290
LOCATION VOL8	VOLUME	446671.941	3761036.279	211.830
LOCATION VOL9	VOLUME	446577.377	3761036.279	210.730
LOCATION VOL10	VOLUME	446482.812	3761036.279	209.630
LOCATION VOL11	VOLUME	446389.436	3761038.063	208.600
LOCATION VOL12	VOLUME	446353.751	3760945.877	207.050
LOCATION VOL13	VOLUME	446446.532	3760945.282	208.070
LOCATION VOL14	VOLUME	446541.692	3760943.498	209.100
LOCATION VOL15	VOLUME	446633.283	3760942.903	210.100
LOCATION VOL16	VOLUME	446726.658	3760943.498	210.240
LOCATION VOL17	VOLUME	446755.206	3760943.498	210.770
LOCATION VOL18	VOLUME	446748.664	3760849.528	210.000
LOCATION VOL19	VOLUME	446655.883	3760850.122	209.000
LOCATION VOL20	VOLUME	446563.103	3760850.122	208.020
LOCATION VOL21	VOLUME	446470.322	3760860.233	207.480
LOCATION VOL22	VOLUME	446354.346	3761039.252	208.430
LOCATION VOL23	VOLUME	446376.946	3760860.828	207.000
LOCATION VOL24	VOLUME	446353.751	3760857.854	207.000
LOCATION VOL25	VOLUME	446885.787	3761133.683	216.000
LOCATION VOL26	VOLUME	446980.128	3761132.999	216.000
LOCATION VOL27	VOLUME	447072.419	3761132.316	216.000
LOCATION VOL28	VOLUME	447165.393	3761130.948	214.900
LOCATION VOL29	VOLUME	447166.104	3761038.359	214.000
LOCATION VOL30	VOLUME	447072.257	3761040.335	214.000



LOCATION VOL31	VOLUME	446979.399	3761039.347	214.440
LOCATION VOL32	VOLUME	446885.553	3761040.335	214.470
LOCATION VOL33	VOLUME	446886.540	3760946.983	213.100
LOCATION VOL34	VOLUME	446979.893	3760946.983	213.000
LOCATION VOL35	VOLUME	447073.739	3760948.464	213.090
LOCATION VOL36	VOLUME	447168.080	3760946.489	213.000
LOCATION VOL37	VOLUME	447169.561	3760852.148	212.130
LOCATION VOL38	VOLUME	447076.209	3760854.618	213.210
LOCATION VOL39	VOLUME	446979.893	3760854.618	213.010
LOCATION VOL40	VOLUME	446888.516	3760854.124	210.510
LOCATION VOL41	VOLUME	446886.540	3760779.541	210.000
LOCATION VOL42	VOLUME	446980.881	3760778.553	211.450
LOCATION VOL43	VOLUME	447074.233	3760778.059	210.000
LOCATION VOL44	VOLUME	447167.586	3760778.553	210.740
LOCATION VOL45	VOLUME	447261.542	3761130.609	213.790
LOCATION VOL46	VOLUME	447354.654	3761130.611	213.000
LOCATION VOL47	VOLUME	447448.792	3761131.192	212.500
LOCATION VOL48	VOLUME	447542.931	3761129.449	212.880
LOCATION VOL49	VOLUME	447566.175	3761130.030	213.000
LOCATION VOL50	VOLUME	447566.175	3761036.472	212.000
LOCATION VOL51	VOLUME	447473.199	3761037.634	212.000
LOCATION VOL52	VOLUME	447380.222	3761037.053	212.000
LOCATION VOL53	VOLUME	447286.664	3761035.891	213.000
LOCATION VOL54	VOLUME	447260.515	3761035.310	213.000
LOCATION VOL55	VOLUME	447262.258	3760942.333	212.000
LOCATION VOL56	VOLUME	447354.654	3760943.496	211.240
LOCATION VOL57	VOLUME	447447.630	3760945.239	211.000
LOCATION VOL58	VOLUME	447539.445	3760944.077	211.000
LOCATION VOL59	VOLUME	447561.527	3760944.077	211.000
LOCATION VOL60	VOLUME	447551.648	3760851.100	210.000
LOCATION VOL61	VOLUME	447456.928	3760852.262	210.000
LOCATION VOL62	VOLUME	447362.208	3760851.100	210.360
LOCATION VOL63	VOLUME	447269.812	3760849.938	211.040
LOCATION VOL64	VOLUME	447263.420	3760755.799	210.000
LOCATION VOL65	VOLUME	447356.397	3760756.380	210.000
LOCATION VOL66	VOLUME	447450.536	3760756.961	209.310
LOCATION VOL67	VOLUME	447546.418	3760758.704	209.000
LOCATION VOL68	VOLUME	447264.582	3760669.214	209.100
LOCATION VOL69	VOLUME	447358.721	3760702.918	209.080
LOCATION VOL70	VOLUME	447453.441	3760726.163	209.000
LOCATION VOL71	VOLUME	446884.540	3760685.485	210.000
LOCATION VOL72	VOLUME	446978.679	3760685.485	209.010
LOCATION VOL73	VOLUME	447072.237	3760684.904	210.000
LOCATION VOL74	VOLUME	447167.538	3760685.485	210.000
LOCATION VOL75	VOLUME	447169.281	3760618.658	209.280
LOCATION VOL76	VOLUME	447073.980	3760592.509	209.930
LOCATION VOL77	VOLUME	446979.260	3760591.928	209.510
LOCATION VOL78	VOLUME	446885.121	3760590.184	207.000
LOCATION VOL79	VOLUME	446881.054	3760504.181	207.000
LOCATION VOL80	VOLUME	446976.355	3760537.885	208.650
LOCATION VOL81	VOLUME	447071.656	3760573.332	209.830

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.0180176969	5.000	21.684	1.400
SRCPARAM VOL2	0.0180176969	5.000	21.684	1.400
SRCPARAM VOL3	0.0180176969	5.000	21.684	1.400
SRCPARAM VOL4	0.0180176969	5.000	21.684	1.400
SRCPARAM VOL5	0.0180176969	5.000	21.684	1.400
SRCPARAM VOL6	0.0180176969	5.000	21.684	1.400
SRCPARAM VOL7	0.0180176969	5.000	21.684	1.400
SRCPARAM VOL8	0.0180176969	5.000	21.684	1.400
SRCPARAM VOL9	0.0180176969	5.000	21.684	1.400
SRCPARAM VOL10	0.0180176969	5.000	21.684	1.400
SRCPARAM VOL11	0.0180176969	5.000	21.684	1.400
SRCPARAM VOL12	0.0180176969	5.000	21.684	1.400
SRCPARAM VOL13	0.0180176969	5.000	21.684	1.400
SRCPARAM VOL14	0.0180176969	5.000	21.684	1.400



```

SRCPARAM VOL81          0.0180176969    5.000    21.684    1.400
URBANSRC ALL
SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
  INCLUDED "14252 Ops CO.rou"
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
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 8 1ST
** Auto-Generated Plotfiles
  PLOTFILE 1 ALL 1ST "14252 Ops CO.AD\01H1GALL.PLT" 31
  PLOTFILE 8 ALL 1ST "14252 Ops CO.AD\08H1GALL.PLT" 32
  SUMMFILE "14252 Ops CO.sum"
OU FINISHED
**
*****
** Project Parameters
*****
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    World Geodetic System 1984
** DTMRGN   Global Definition
** UNITS    m
** ZONE     11
** ZONEINX  0
**

```

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.0.0
** Lakes Environmental Software Inc.
** Date: 9/22/2022
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29 AQIA\14252 Ops CO\14252 Ops CO.ADI
**
*****

```

```

**
**
*****
** AERMOD Control Pathway
*****
**
**

```

```

CO STARTING
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29 AQIA\14252 Ops
MODELOPT DFAULT CONC
AVERTIME 1 8
URBANOPT 2035210
POLLUTID CO
FLAGPOLE 2.00
RUNORNOT RUN
ERRORFIL "14252 Ops CO.err"

```

CO FINISHED

```

**
*****
** AERMOD Source Pathway
*****

```

```

**
**

```

SO STARTING

\*\* Source Location \*\*

\*\* Source ID - Type - X Coord. - Y Coord. \*\*

Source ID	Type	X Coord.	Y Coord.
LOCATION VOL1	VOLUME	446353.525	3761131.686
LOCATION VOL2	VOLUME	446446.125	3761131.042
LOCATION VOL3	VOLUME	446539.533	3761130.447
LOCATION VOL4	VOLUME	446633.040	3761129.753
LOCATION VOL5	VOLUME	446726.282	3761130.182
LOCATION VOL6	VOLUME	446765.912	3761130.249
LOCATION VOL7	VOLUME	446765.912	3761036.279
LOCATION VOL8	VOLUME	446671.941	3761036.279
LOCATION VOL9	VOLUME	446577.377	3761036.279
LOCATION VOL10	VOLUME	446482.812	3761036.279
LOCATION VOL11	VOLUME	446389.436	3761038.063
LOCATION VOL12	VOLUME	446353.751	3760945.877
LOCATION VOL13	VOLUME	446446.532	3760945.282
LOCATION VOL14	VOLUME	446541.692	3760943.498
LOCATION VOL15	VOLUME	446633.283	3760942.903
LOCATION VOL16	VOLUME	446726.658	3760943.498
LOCATION VOL17	VOLUME	446755.206	3760943.498
LOCATION VOL18	VOLUME	446748.664	3760849.528
LOCATION VOL19	VOLUME	446655.883	3760850.122
LOCATION VOL20	VOLUME	446563.103	3760850.122
LOCATION VOL21	VOLUME	446470.322	3760860.233
LOCATION VOL22	VOLUME	446354.346	3761039.252
LOCATION VOL23	VOLUME	446376.946	3760860.828
LOCATION VOL24	VOLUME	446353.751	3760857.854
LOCATION VOL25	VOLUME	446885.787	3761133.683
LOCATION VOL26	VOLUME	446980.128	3761132.999
LOCATION VOL27	VOLUME	447072.419	3761132.316
LOCATION VOL28	VOLUME	447165.393	3761130.948
LOCATION VOL29	VOLUME	447166.104	3761038.359

LOCATION VOL30	VOLUME	447072.257	3761040.335	214.000
LOCATION VOL31	VOLUME	446979.399	3761039.347	214.440
LOCATION VOL32	VOLUME	446885.553	3761040.335	214.470
LOCATION VOL33	VOLUME	446886.540	3760946.983	213.100
LOCATION VOL34	VOLUME	446979.893	3760946.983	213.000
LOCATION VOL35	VOLUME	447073.739	3760948.464	213.090
LOCATION VOL36	VOLUME	447168.080	3760946.489	213.000
LOCATION VOL37	VOLUME	447169.561	3760852.148	212.130
LOCATION VOL38	VOLUME	447076.209	3760854.618	213.210
LOCATION VOL39	VOLUME	446979.893	3760854.618	213.010
LOCATION VOL40	VOLUME	446888.516	3760854.124	210.510
LOCATION VOL41	VOLUME	446886.540	3760779.541	210.000
LOCATION VOL42	VOLUME	446980.881	3760778.553	211.450
LOCATION VOL43	VOLUME	447074.233	3760778.059	210.000
LOCATION VOL44	VOLUME	447167.586	3760778.553	210.740
LOCATION VOL45	VOLUME	447261.542	3761130.609	213.790
LOCATION VOL46	VOLUME	447354.654	3761130.611	213.000
LOCATION VOL47	VOLUME	447448.792	3761131.192	212.500
LOCATION VOL48	VOLUME	447542.931	3761129.449	212.880
LOCATION VOL49	VOLUME	447566.175	3761130.030	213.000
LOCATION VOL50	VOLUME	447566.175	3761036.472	212.000
LOCATION VOL51	VOLUME	447473.199	3761037.634	212.000
LOCATION VOL52	VOLUME	447380.222	3761037.053	212.000
LOCATION VOL53	VOLUME	447286.664	3761035.891	213.000
LOCATION VOL54	VOLUME	447260.515	3761035.310	213.000
LOCATION VOL55	VOLUME	447262.258	3760942.333	212.000
LOCATION VOL56	VOLUME	447354.654	3760943.496	211.240
LOCATION VOL57	VOLUME	447447.630	3760945.239	211.000
LOCATION VOL58	VOLUME	447539.445	3760944.077	211.000
LOCATION VOL59	VOLUME	447561.527	3760944.077	211.000
LOCATION VOL60	VOLUME	447551.648	3760851.100	210.000
LOCATION VOL61	VOLUME	447456.928	3760852.262	210.000
LOCATION VOL62	VOLUME	447362.208	3760851.100	210.360
LOCATION VOL63	VOLUME	447269.812	3760849.938	211.040
LOCATION VOL64	VOLUME	447263.420	3760755.799	210.000
LOCATION VOL65	VOLUME	447356.397	3760756.380	210.000
LOCATION VOL66	VOLUME	447450.536	3760756.961	209.310
LOCATION VOL67	VOLUME	447546.418	3760758.704	209.000
LOCATION VOL68	VOLUME	447264.582	3760669.214	209.100
LOCATION VOL69	VOLUME	447358.721	3760702.918	209.080
LOCATION VOL70	VOLUME	447453.441	3760726.163	209.000
LOCATION VOL71	VOLUME	446884.540	3760685.485	210.000
LOCATION VOL72	VOLUME	446978.679	3760685.485	209.010
LOCATION VOL73	VOLUME	447072.237	3760684.904	210.000
LOCATION VOL74	VOLUME	447167.538	3760685.485	210.000
LOCATION VOL75	VOLUME	447169.281	3760618.658	209.280
LOCATION VOL76	VOLUME	447073.980	3760592.509	209.930
LOCATION VOL77	VOLUME	446979.260	3760591.928	209.510
LOCATION VOL78	VOLUME	446885.121	3760590.184	207.000
LOCATION VOL79	VOLUME	446881.054	3760504.181	207.000
LOCATION VOL80	VOLUME	446976.355	3760537.885	208.650
LOCATION VOL81	VOLUME	447071.656	3760573.332	209.830

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.0180176969	5.000	21.684	1.400
SRCPARAM VOL2	0.0180176969	5.000	21.684	1.400
SRCPARAM VOL3	0.0180176969	5.000	21.684	1.400
SRCPARAM VOL4	0.0180176969	5.000	21.684	1.400
SRCPARAM VOL5	0.0180176969	5.000	21.684	1.400
SRCPARAM VOL6	0.0180176969	5.000	21.684	1.400
SRCPARAM VOL7	0.0180176969	5.000	21.684	1.400
SRCPARAM VOL8	0.0180176969	5.000	21.684	1.400
SRCPARAM VOL9	0.0180176969	5.000	21.684	1.400
SRCPARAM VOL10	0.0180176969	5.000	21.684	1.400
SRCPARAM VOL11	0.0180176969	5.000	21.684	1.400
SRCPARAM VOL12	0.0180176969	5.000	21.684	1.400
SRCPARAM VOL13	0.0180176969	5.000	21.684	1.400



SRCPARAM VOL80 0.0180176969 5.000 21.684 1.400  
SRCPARAM VOL81 0.0180176969 5.000 21.684 1.400  
URBANSRC ALL  
SRCGROUP ALL

SO FINISHED

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\*\*\*\*\*

\*\* AERMOD Receptor Pathway  
\*\*\*\*\*

\*\*  
\*\*

RE STARTING  
INCLUDED "14252 Ops CO.rou"

RE FINISHED  
\*\*  
\*\*\*\*\*

\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*

\*\*  
\*\*

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 8 1ST  
\*\* Auto-Generated Plotfiles  
PLOTFILE 1 ALL 1ST "14252 Ops CO.AD\01H1GALL.PLT" 31  
PLOTFILE 8 ALL 1ST "14252 Ops CO.AD\08H1GALL.PLT" 32  
SUMMFILE "14252 Ops CO.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 224 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 224 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

PAGE 1

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.
- \* Model Uses NO DRY DEPLETION. DDPLETE = F
- \* Model Uses NO WET DEPLETION. WETDPLT = F
- \* Stack-tip Downwash.
- \* Model Accounts for ELEVated Terrain Effects.
- \* Use Calms Processing Routine.
- \* Use Missing Data Processing Routine.
- \* No Exponential Decay.
- \* Model Uses URBAN Dispersion Algorithm for the SBL for 81 Source(s),  
for Total of 1 Urban Area(s):
- Urban Population = 2035210.0 ; Urban Roughness Length = 1.000 m
- \* Urban Roughness Length of 1.0 Meter Used.
- \* 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 Accepts FLAGPOLE Receptor . Heights.
- \* The User Specified a Pollutant Type of: CO

\*\*Model Calculates 2 Short Term Average(s) of: 1-HR 8-HR

\*\*This Run Includes: 81 Source(s); 1 Source Group(s); and 81 Receptor(s)

- with: 0 POINT(s), including
- 0 POINTCAP(s) and 0 POINTHOR(s)
- and: 81 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 a total of 0 line(s)
- and: 0 SWPOINT source(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 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 = 3.5 MB of RAM.

\*\*Input Runstream File:

aermod.inp

\*\*Output Print File:

aermod.out

\*\*Detailed Error/Message File: 14252 Ops

CO.err

\*\*File for Summary of Results: 14252 Ops

CO.sum

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29

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\*\*\* AERMET - VERSION 16216 \*\*\*

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER URBAN	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
SOURCE ID (METERS)	SCALAR VARY CATS.	BY						
VOL1	0	0.18018E-01	446353.5	3761131.7	210.0	5.00	21.68	1.40
YES								
VOL2	0	0.18018E-01	446446.1	3761131.0	210.5	5.00	21.68	1.40
YES								
VOL3	0	0.18018E-01	446539.5	3761130.4	211.2	5.00	21.68	1.40
YES								
VOL4	0	0.18018E-01	446633.0	3761129.8	212.7	5.00	21.68	1.40
YES								
VOL5	0	0.18018E-01	446726.3	3761130.2	213.8	5.00	21.68	1.40
YES								
VOL6	0	0.18018E-01	446765.9	3761130.2	214.4	5.00	21.68	1.40
YES								
VOL7	0	0.18018E-01	446765.9	3761036.3	213.3	5.00	21.68	1.40
YES								
VOL8	0	0.18018E-01	446671.9	3761036.3	211.8	5.00	21.68	1.40
YES								
VOL9	0	0.18018E-01	446577.4	3761036.3	210.7	5.00	21.68	1.40
YES								
VOL10	0	0.18018E-01	446482.8	3761036.3	209.6	5.00	21.68	1.40
YES								
VOL11	0	0.18018E-01	446389.4	3761038.1	208.6	5.00	21.68	1.40
YES								
VOL12	0	0.18018E-01	446353.8	3760945.9	207.1	5.00	21.68	1.40
YES								
VOL13	0	0.18018E-01	446446.5	3760945.3	208.1	5.00	21.68	1.40
YES								
VOL14	0	0.18018E-01	446541.7	3760943.5	209.1	5.00	21.68	1.40
YES								
VOL15	0	0.18018E-01	446633.3	3760942.9	210.1	5.00	21.68	1.40
YES								
VOL16	0	0.18018E-01	446726.7	3760943.5	210.2	5.00	21.68	1.40
YES								
VOL17	0	0.18018E-01	446755.2	3760943.5	210.8	5.00	21.68	1.40



VOL41	0	0.18018E-01	446886.5	3760779.5	210.0	5.00	21.68	1.40
YES								
VOL42	0	0.18018E-01	446980.9	3760778.6	211.5	5.00	21.68	1.40
YES								
VOL43	0	0.18018E-01	447074.2	3760778.1	210.0	5.00	21.68	1.40
YES								
VOL44	0	0.18018E-01	447167.6	3760778.6	210.7	5.00	21.68	1.40
YES								
VOL45	0	0.18018E-01	447261.5	3761130.6	213.8	5.00	21.68	1.40
YES								
VOL46	0	0.18018E-01	447354.7	3761130.6	213.0	5.00	21.68	1.40
YES								
VOL47	0	0.18018E-01	447448.8	3761131.2	212.5	5.00	21.68	1.40
YES								
VOL48	0	0.18018E-01	447542.9	3761129.4	212.9	5.00	21.68	1.40
YES								
VOL49	0	0.18018E-01	447566.2	3761130.0	213.0	5.00	21.68	1.40
YES								
VOL50	0	0.18018E-01	447566.2	3761036.5	212.0	5.00	21.68	1.40
YES								
VOL51	0	0.18018E-01	447473.2	3761037.6	212.0	5.00	21.68	1.40
YES								
VOL52	0	0.18018E-01	447380.2	3761037.1	212.0	5.00	21.68	1.40
YES								
VOL53	0	0.18018E-01	447286.7	3761035.9	213.0	5.00	21.68	1.40
YES								
VOL54	0	0.18018E-01	447260.5	3761035.3	213.0	5.00	21.68	1.40
YES								
VOL55	0	0.18018E-01	447262.3	3760942.3	212.0	5.00	21.68	1.40
YES								
VOL56	0	0.18018E-01	447354.7	3760943.5	211.2	5.00	21.68	1.40
YES								
VOL57	0	0.18018E-01	447447.6	3760945.2	211.0	5.00	21.68	1.40
YES								
VOL58	0	0.18018E-01	447539.4	3760944.1	211.0	5.00	21.68	1.40
YES								
VOL59	0	0.18018E-01	447561.5	3760944.1	211.0	5.00	21.68	1.40
YES								
VOL60	0	0.18018E-01	447551.6	3760851.1	210.0	5.00	21.68	1.40
YES								
VOL61	0	0.18018E-01	447456.9	3760852.3	210.0	5.00	21.68	1.40
YES								
VOL62	0	0.18018E-01	447362.2	3760851.1	210.4	5.00	21.68	1.40
YES								
VOL63	0	0.18018E-01	447269.8	3760849.9	211.0	5.00	21.68	1.40
YES								
VOL64	0	0.18018E-01	447263.4	3760755.8	210.0	5.00	21.68	1.40
YES								
VOL65	0	0.18018E-01	447356.4	3760756.4	210.0	5.00	21.68	1.40
YES								
VOL66	0	0.18018E-01	447450.5	3760757.0	209.3	5.00	21.68	1.40
YES								
VOL67	0	0.18018E-01	447546.4	3760758.7	209.0	5.00	21.68	1.40
YES								
VOL68	0	0.18018E-01	447264.6	3760669.2	209.1	5.00	21.68	1.40
YES								
VOL69	0	0.18018E-01	447358.7	3760702.9	209.1	5.00	21.68	1.40
YES								
VOL70	0	0.18018E-01	447453.4	3760726.2	209.0	5.00	21.68	1.40
YES								
VOL71	0	0.18018E-01	446884.5	3760685.5	210.0	5.00	21.68	1.40
YES								
VOL72	0	0.18018E-01	446978.7	3760685.5	209.0	5.00	21.68	1.40
YES								
VOL73	0	0.18018E-01	447072.2	3760684.9	210.0	5.00	21.68	1.40



VOL41 , VOL42 , VOL43 , VOL44 , VOL45 , VOL46 ,  
VOL47 , VOL48 ,  
VOL49 , VOL50 , VOL51 , VOL52 , VOL53 , VOL54 ,  
VOL55 , VOL56 ,  
VOL57 , VOL58 , VOL59 , VOL60 , VOL61 , VOL62 ,  
VOL63 , VOL64 ,  
VOL65 , VOL66 , VOL67 , VOL68 , VOL69 , VOL70 ,  
VOL71 , VOL72 ,  
VOL73 , VOL74 , VOL75 , VOL76 , VOL77 , VOL78 ,  
VOL79 , VOL80 ,

VOL81 ,

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

URBAN ID	URBAN POP	SOURCE IDs							
-----	-----	-----							
	2035210.	VOL1	, VOL2	, VOL3	, VOL4	, VOL5	, VOL6	, VOL7	, VOL8
VOL8	VOL6	, VOL7	, VOL8	, VOL9	, VOL10	, VOL11	, VOL12	, VOL13	, VOL14
	VOL9	, VOL10	, VOL11	, VOL12	, VOL13	, VOL14	, VOL15	, VOL16	, VOL17
	VOL15	, VOL16	, VOL17	, VOL18	, VOL19	, VOL20	, VOL21	, VOL22	, VOL23
	VOL17	, VOL18	, VOL19	, VOL20	, VOL21	, VOL22	, VOL23	, VOL24	, VOL25
	VOL23	, VOL24	, VOL25	, VOL26	, VOL27	, VOL28	, VOL29	, VOL30	, VOL31
	VOL25	, VOL26	, VOL27	, VOL28	, VOL29	, VOL30	, VOL31	, VOL32	, VOL33
	VOL31	, VOL32	, VOL33	, VOL34	, VOL35	, VOL36	, VOL37	, VOL38	, VOL39
	VOL33	, VOL34	, VOL35	, VOL36	, VOL37	, VOL38	, VOL39	, VOL40	, VOL41
	VOL39	, VOL40	, VOL41	, VOL42	, VOL43	, VOL44	, VOL45	, VOL46	, VOL47
	VOL41	, VOL42	, VOL43	, VOL44	, VOL45	, VOL46	, VOL47	, VOL48	, VOL49
	VOL47	, VOL48	, VOL49	, VOL50	, VOL51	, VOL52	, VOL53	, VOL54	, VOL55
	VOL49	, VOL50	, VOL51	, VOL52	, VOL53	, VOL54	, VOL55	, VOL56	, VOL57
	VOL55	, VOL56	, VOL57	, VOL58	, VOL59	, VOL60	, VOL61	, VOL62	, VOL63
	VOL57	, VOL58	, VOL59	, VOL60	, VOL61	, VOL62	, VOL63	, VOL64	, VOL65
	VOL63	, VOL64	, VOL65	, VOL66	, VOL67	, VOL68	, VOL69	, VOL70	, VOL71
	VOL65	, VOL66	, VOL67	, VOL68	, VOL69	, VOL70	, VOL71	, VOL72	, VOL73
	VOL71	, VOL72	, VOL73	, VOL74	, VOL75	, VOL76	, VOL77	, VOL78	, VOL79
	VOL73	, VOL74	, VOL75	, VOL76	, VOL77	, VOL78	, VOL79	, VOL80	, VOL81
	VOL79	, VOL80	, VOL81	, VOL82	, VOL83	, VOL84	, VOL85	, VOL86	, VOL87

VOL81 ,

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 446880.6, 3760419.5, 207.0, 207.0, 2.0);	( 446886.3, 3760422.3, 207.0, 207.0, 2.0);
( 446909.2, 3760429.0, 207.0, 207.0, 2.0);	( 446932.4, 3760438.0, 207.3, 207.3, 2.0);
( 446953.6, 3760447.2, 207.4, 207.4, 2.0);	( 446975.6, 3760454.9, 207.9, 207.9, 2.0);
( 446990.2, 3760460.5, 208.0, 208.0, 2.0);	( 447027.1, 3760473.2, 208.0, 208.0, 2.0);
( 447050.9, 3760483.6, 208.4, 208.4, 2.0);	( 447070.3, 3760490.6, 209.0, 209.0, 2.0);
( 447089.8, 3760497.4, 209.0, 209.0, 2.0);	( 447109.3, 3760505.8, 208.9, 208.9, 2.0);
( 447130.0, 3760512.9, 208.9, 208.9, 2.0);	( 447151.3, 3760520.7, 209.0, 209.0, 2.0);
( 447193.4, 3760535.7, 208.6, 208.6, 2.0);	( 447230.8, 3760550.4, 208.1, 208.1, 2.0);
( 447252.1, 3760557.7, 208.0, 208.0, 2.0);	( 447273.7, 3760565.5, 208.0, 208.0, 2.0);
( 447292.7, 3760572.8, 208.0, 208.0, 2.0);	( 447339.1, 3760589.1, 208.0, 208.0, 2.0);
( 447365.4, 3760597.9, 208.0, 208.0, 2.0);	( 447401.6, 3760610.9, 208.1, 208.1, 2.0);
( 447434.1, 3760622.3, 208.0, 208.0, 2.0);	( 447468.0, 3760634.8, 208.0, 208.0, 2.0);
( 447497.5, 3760645.0, 208.3, 208.3, 2.0);	( 447521.4, 3760652.6, 208.5, 208.5, 2.0);
( 447547.0, 3760662.6, 208.9, 208.9, 2.0);	( 447578.8, 3760675.1, 209.0, 209.0, 2.0);
( 447648.3, 3760700.8, 209.0, 209.0, 2.0);	( 447679.0, 3760712.0, 209.0, 209.0, 2.0);
( 447705.1, 3760721.8, 209.0, 209.0, 2.0);	( 447666.0, 3760779.6, 209.8, 209.8, 2.0);
( 447647.4, 3760831.4, 210.0, 210.0, 2.0);	( 447648.7, 3760893.4, 210.6, 210.6, 2.0);
( 447649.4, 3760953.0, 211.0, 211.0, 2.0);	( 447648.7, 3760987.3, 211.7, 211.7, 2.0);
( 447649.0, 3761070.7, 212.5, 212.5, 2.0);	( 447649.2, 3761155.1, 213.0, 213.0, 2.0);
( 447577.5, 3761210.6, 213.1, 213.1, 2.0);	( 447650.0, 3761221.8, 214.0, 214.0, 2.0);
( 446484.6, 3761227.3, 212.0, 212.0, 2.0);	( 446553.2, 3761230.1, 212.6, 212.6, 2.0);
( 446513.5, 3761230.1, 212.0, 212.0, 2.0);	( 446297.9, 3761173.0, 210.0, 210.0, 2.0);
( 446296.6, 3761131.3, 209.9, 209.9, 2.0);	( 446296.6, 3761111.8, 209.7, 209.7, 2.0);
( 446296.8, 3761092.8, 209.2, 209.2, 2.0);	( 446295.8, 3761072.8, 209.0, 209.0, 2.0);
( 446296.6, 3761056.1, 209.0, 209.0, 2.0);	( 446296.3, 3761037.7, 208.4, 208.4, 2.0);
( 446296.3, 3761019.4, 208.0, 208.0, 2.0);	( 446295.3, 3761001.3, 208.0, 208.0, 2.0);
( 446295.5, 3760982.3, 207.5, 207.5, 2.0);	( 446295.5, 3760963.7, 207.0, 207.0, 2.0);
( 446294.6, 3760945.4, 207.0, 207.0, 2.0);	( 446295.3, 3760926.4, 207.0, 207.0, 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 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29  
AQIA\14252 Ops \*\*\* 09/22/22  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 12:09:04

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*


\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL4 , VOL5 ,  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF CO IN \*\*  
MICROGRAMS/M\*\*3

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
446880.58	3760419.47	31.47042	(16020317)	446886.26	
3760422.30	31.37218	(16020317)			
446909.21	3760429.01	30.23860	(16020317)	446932.42	
3760438.03	32.08215	(16020317)			
446953.64	3760447.19	34.72527	(16020317)	446975.65	
3760454.95	34.79093	(16020317)			
446990.22	3760460.49	33.79693	(16020317)	447027.12	
3760473.16	34.27438	(12012917)			
447050.87	3760483.61	36.59376	(16020317)	447070.35	
3760490.58	34.96334	(16020317)			
447089.83	3760497.39	36.34481	(12012917)	447109.31	
3760505.78	43.24720	(12012917)			
447130.05	3760512.91	42.94452	(12012917)	447151.27	
3760520.67	36.28654	(12012917)			
447193.40	3760535.71	32.22498	(14091122)	447230.77	
3760550.44	33.35260	(12012917)			
447252.15	3760557.73	31.11032	(13083102)	447273.69	
3760565.49	30.44895	(12100607)			
447292.69	3760572.77	30.28994	(12100607)	447339.09	
3760589.08	30.17704	(13083102)			
447365.38	3760597.95	29.74300	(13083102)	447401.65	

3760610.94	30.02092	(13083102)		
447434.11	3760622.34	30.46271	(15090924)	447468.00
3760634.85	30.62706	(15090924)		
447497.46	3760644.99	35.06262	(12012917)	447521.37
3760652.59	34.17569	(12012917)		
447547.02	3760662.56	31.78872	(15090622)	447578.85
3760675.07	31.28697	(15090622)		
447648.27	3760700.75	30.85373	(12122516)	447678.99
3760711.99	28.36782	(12122516)		
447705.12	3760721.81	26.15418	(15082822)	447665.99
3760779.58	30.06558	(14091320)		
447647.36	3760831.38	32.76207	(12122516)	447648.66
3760893.43	35.65410	(12122516)		
447649.41	3760953.05	38.93118	(13041207)	447648.66
3760987.33	45.64438	(13041207)		
447648.95	3761070.72	40.98565	(13041207)	447649.16
3761155.12	46.44698	(13041207)		
447577.48	3761210.58	35.49738	(14120516)	447650.04
3761221.76	33.30395	(13041207)		
446484.62	3761227.34	28.42804	(12071102)	446553.20
3761230.07	27.76883	(13063021)		
446513.45	3761230.07	27.73271	(16090806)	446297.94
3761172.96	33.45441	(15100919)		
446296.64	3761131.30	37.08680	(12010117)	446296.64
3761111.82	36.82443	(16102718)		
446296.80	3761092.81	37.15014	(16102718)	446295.84
3761072.85	39.13761	(15090920)		
446296.64	3761056.07	41.39664	(15090920)	446296.32
3761037.69	41.89938	(13082922)		
446296.28	3761019.42	40.08654	(13082922)	446295.35
3761001.35	37.73051	(16103002)		
446295.54	3760982.34	37.26602	(13082922)	446295.54
3760963.71	38.22448	(13082922)		
446294.61	3760945.44	38.62646	(16103002)	446295.35
3760926.44	38.26852	(15031220)		
446294.98	3760909.85	37.86801	(15031220)	446294.05
3760894.76	38.45747	(15031220)		
446294.42	3760880.78	39.98348	(15031220)	446294.61
3760867.55	41.31314	(15090921)		
446294.61	3760853.58	40.99478	(15090921)	446294.79
3760835.32	38.87745	(16110301)		
446294.23	3760806.25	32.38615	(12092322)	446391.69
3760794.13	32.99624	(12100607)		
446312.31	3760780.16	34.38368	(16020317)	446292.56
3760779.60	27.63231	(16020317)		
446269.45	3760780.35	26.05622	(12092322)	446411.66
3760789.09	31.39135	(12100607)		
446496.51	3760770.27	29.35590	(12100607)	446584.98
3760778.00	34.00262	(12100607)		
446615.93	3760779.55	35.14412	(12100607)	446705.94
3760782.13	38.72636	(12100607)		
446782.80	3760775.68	41.31650	(12100607)	446784.09
3760707.08	34.54837	(12100607)		
446784.60	3760693.41	33.71261	(12100607)	446791.57
3760568.06	30.16261	(14091421)		
446786.66	3760636.15	30.67490	(12100607)	446793.89
3760530.92	29.98259	(14091421)		
446792.60	3760439.36	27.55778	(15031219)	446796.58
3760367.99	22.80008	(14051522)		

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AQIA\14252 Ops \*\*\*      09/22/22  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\*      \*\*\*      12:09:04

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL4 , VOL5 ,  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF CO IN  
MICROGRAMS/M\*\*3 \*\*

X-COORD (M) (M)	Y-COORD (M) CONC (YYMMDDHH)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD
446708.26 (15031219)	3760360.35	19.41957		

\*\*\* AERMOD - VERSION 22112 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29  
AQIA\14252 Ops \*\*\* 09/22/22  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 12:09:04

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL4 , VOL5 ,  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF CO IN  
MICROGRAMS/M\*\*3 \*\*

X-COORD (M) (M)	Y-COORD (M) CONC (YYMMDDHH)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD
446880.58	3760419.47	24.82105 (16121608)	446886.26	
3760422.30	25.06205 (16121608)			
446909.21	3760429.01	25.40580 (13121708)	446932.42	
3760438.03	26.18877 (13121708)			
446953.64	3760447.19	27.37706 (13121708)	446975.65	
3760454.95	28.41404 (13121708)			
446990.22	3760460.49	28.80680 (13121708)	447027.12	
3760473.16	28.85611 (13121708)			
447050.87	3760483.61	29.72483 (13121708)	447070.35	
3760490.58	30.36185 (13012108)			
447089.83	3760497.39	30.75974 (13012108)	447109.31	
3760505.78	30.35734 (14120708)			
447130.05	3760512.91	29.00381 (14120708)	447151.27	
3760520.67	28.26665 (12113008)			
447193.40	3760535.71	27.49564 (12113008)	447230.77	

3760550.44	26.88833	(12113008)		
447252.15	3760557.73	26.37247	(12113008)	447273.69
3760565.49	26.05226	(12113008)		
447292.69	3760572.77	25.91669	(12113008)	447339.09
3760589.08	25.51376	(12113008)		
447365.38	3760597.95	25.35789	(12113008)	447401.65
3760610.94	25.42001	(14120708)		
447434.11	3760622.34	25.42713	(14120708)	447468.00
3760634.85	25.71016	(14120708)		
447497.46	3760644.99	24.84011	(14120708)	447521.37
3760652.59	24.11885	(13020924)		
447547.02	3760662.56	23.94858	(13020924)	447578.85
3760675.07	23.52369	(13020924)		
447648.27	3760700.75	21.69845c	(14072508)	447678.99
3760711.99	20.15887	(12102108)		
447705.12	3760721.81	19.05848	(15050408)	447665.99
3760779.58	23.95734c	(14062708)		
447647.36	3760831.38	27.22872c	(14062708)	447648.66
3760893.43	28.63715c	(14062708)		
447649.41	3760953.05	31.27552	(16010924)	447648.66
3760987.33	30.88458	(13020608)		
447648.95	3761070.72	29.24008	(13020608)	447649.16
3761155.12	29.61243	(16103024)		
447577.48	3761210.58	29.93385	(13102408)	447650.04
3761221.76	26.17915	(13102408)		
446484.62	3761227.34	21.31711c	(12120408)	446553.20
3761230.07	22.41743	(12120608)		
446513.45	3761230.07	21.30767	(12120608)	446297.94
3761172.96	21.88276	(12122024)		
446296.64	3761131.30	25.89822	(12020624)	446296.64
3761111.82	26.96798	(12020624)		
446296.80	3761092.81	27.52319	(12020624)	446295.84
3761072.85	29.22381	(12020624)		
446296.64	3761056.07	31.68331	(12020624)	446296.32
3761037.69	33.23140	(12020624)		
446296.28	3761019.42	32.76421	(12020624)	446295.35
3761001.35	31.27439	(12020624)		
446295.54	3760982.34	30.90889	(12020624)	446295.54
3760963.71	31.76008	(12020624)		
446294.61	3760945.44	32.23316	(12020624)	446295.35
3760926.44	31.99076	(12020624)		
446294.98	3760909.85	31.48413	(12020624)	446294.05
3760894.76	31.70167	(12020624)		
446294.42	3760880.78	32.62855	(12020624)	446294.61
3760867.55	33.39276	(13011808)		
446294.61	3760853.58	34.43280	(13011808)	446294.79
3760835.32	33.61574	(13011808)		
446294.23	3760806.25	28.21495	(13011808)	446391.69
3760794.13	28.08012	(12113008)		
446312.31	3760780.16	25.04346	(16122908)	446292.56
3760779.60	23.34512	(16122908)		
446269.45	3760780.35	22.35459	(13011808)	446411.66
3760789.09	26.76549	(12113008)		
446496.51	3760770.27	25.08910	(12113008)	446584.98
3760778.00	29.02808	(12113008)		
446615.93	3760779.55	30.01040	(12113008)	446705.94
3760782.13	33.06910	(12113008)		
446782.80	3760775.68	35.29837	(12113008)	446784.09
3760707.08	29.55699	(12113008)		
446784.60	3760693.41	28.84226	(12113008)	446791.57
3760568.06	26.25160	(13011808)		
446786.66	3760636.15	26.64379	(13011808)	446793.89
3760530.92	25.52557	(16012708)		
446792.60	3760439.36	23.07737	(16122908)	446796.58
3760367.99	18.37079	(16122908)		

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 , VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 , VOL17 , VOL18 , VOL19 , VOL20 , VOL21 , VOL22 , VOL23 , VOL24 , VOL25 , VOL26 , VOL27 , VOL28 , . . .

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF CO IN MICROGRAMS/M\*\*3 \*\*

Table with columns: X-COORD (M), Y-COORD (M), CONC (YYMMDDHH), X-COORD (M), Y-COORD. Row 1: 446708.26, 3760360.35, 15.69692, (16122908)

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 1-HR RESULTS \*\*\*

\*\* CONC OF CO IN MICROGRAMS/M\*\*3 \*\*

Table with columns: GROUP ID, AVERAGE CONC (YYMMDDHH), NETWORK RECEPTOR (XR, YR), DATE. Row 1: ALL HIGH 1ST HIGH VALUE IS 46.44698 ON 13041207: AT ( 447649.16, 3761155.12, 213.00, 213.00, 2.00) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART GP = GRIDPOLR DC = DISCCART DP = DISCPOLR

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\* CONC OF CO IN  
MICROGRAMS/M\*\*3 \*\*

GROUP ID	AVERAGE CONC	DATE	RECEPTOR	NETWORK
ZELEV, ZHILL, ZFLAG)	OF TYPE GRID-ID	(YYMMDDHH)	(XR, YR,	
ALL HIGH 1ST HIGH VALUE IS	35.29837	ON 12113008: AT (	446782.80,	3760775.68,
209.00, 209.00, 2.00) DC				

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
 GP = GRIDPOLR  
 DC = DISCCART  
 DP = DISCPOLR

\*\*\* AERMOD - VERSION 22112 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29  
 AQIA\14252 Ops \*\*\* 09/22/22  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* \*\* 12:09:04

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- 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 224 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
 ME W187 224 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
 \*\*\* AERMOD Finishes Successfully \*\*\*  
 \*\*\*\*\*

\*\*  
\*\*\*\*\*  
\*\*  
\*\* AERMOD Input Produced by:  
\*\* AERMOD View Ver. 11.0.0  
\*\* Lakes Environmental Software Inc.  
\*\* Date: 9/22/2022  
\*\* File: C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29 AQIA\14252 Ops NO2\14252 Ops  
NO2.ADI

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\*\*\*\*\*  
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\*\*\*\*\*  
\*\* AERMOD Control Pathway  
\*\*\*\*\*  
\*\*  
\*\*

CO STARTING  
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29 AQIA\14252 Ops  
MODELOPT DFAULT CONC  
AVERTIME 1  
URBANOPT 2035210  
POLLUTID NOX  
FLAGPOLE 2.00  
RUNORNOT RUN  
ERRORFIL "14252 Ops NO2.err"

CO FINISHED

\*\*  
\*\*\*\*\*  
\*\* AERMOD Source Pathway  
\*\*\*\*\*

\*\*  
\*\*

SO STARTING

\*\* Source Location \*\*

\*\* Source ID - Type - X Coord. - Y Coord. \*\*

LOCATION VOL1	VOLUME	446353.525	3761131.686	210.000
LOCATION VOL2	VOLUME	446446.125	3761131.042	210.490
LOCATION VOL3	VOLUME	446539.533	3761130.447	211.160
LOCATION VOL4	VOLUME	446633.040	3761129.753	212.700
LOCATION VOL5	VOLUME	446726.282	3761130.182	213.760
LOCATION VOL6	VOLUME	446765.912	3761130.249	214.410
LOCATION VOL7	VOLUME	446765.912	3761036.279	213.290
LOCATION VOL8	VOLUME	446671.941	3761036.279	211.830
LOCATION VOL9	VOLUME	446577.377	3761036.279	210.730
LOCATION VOL10	VOLUME	446482.812	3761036.279	209.630
LOCATION VOL11	VOLUME	446389.436	3761038.063	208.600
LOCATION VOL12	VOLUME	446353.751	3760945.877	207.050
LOCATION VOL13	VOLUME	446446.532	3760945.282	208.070
LOCATION VOL14	VOLUME	446541.692	3760943.498	209.100
LOCATION VOL15	VOLUME	446633.283	3760942.903	210.100
LOCATION VOL16	VOLUME	446726.658	3760943.498	210.240
LOCATION VOL17	VOLUME	446755.206	3760943.498	210.770
LOCATION VOL18	VOLUME	446748.664	3760849.528	210.000
LOCATION VOL19	VOLUME	446655.883	3760850.122	209.000
LOCATION VOL20	VOLUME	446563.103	3760850.122	208.020
LOCATION VOL21	VOLUME	446470.322	3760860.233	207.480
LOCATION VOL22	VOLUME	446354.346	3761039.252	208.430
LOCATION VOL23	VOLUME	446376.946	3760860.828	207.000
LOCATION VOL24	VOLUME	446353.751	3760857.854	207.000
LOCATION VOL25	VOLUME	446885.787	3761133.683	216.000
LOCATION VOL26	VOLUME	446980.128	3761132.999	216.000
LOCATION VOL27	VOLUME	447072.419	3761132.316	216.000
LOCATION VOL28	VOLUME	447165.393	3761130.948	214.900
LOCATION VOL29	VOLUME	447166.104	3761038.359	214.000

LOCATION VOL30	VOLUME	447072.257	3761040.335	214.000
LOCATION VOL31	VOLUME	446979.399	3761039.347	214.440
LOCATION VOL32	VOLUME	446885.553	3761040.335	214.470
LOCATION VOL33	VOLUME	446886.540	3760946.983	213.100
LOCATION VOL34	VOLUME	446979.893	3760946.983	213.000
LOCATION VOL35	VOLUME	447073.739	3760948.464	213.090
LOCATION VOL36	VOLUME	447168.080	3760946.489	213.000
LOCATION VOL37	VOLUME	447169.561	3760852.148	212.130
LOCATION VOL38	VOLUME	447076.209	3760854.618	213.210
LOCATION VOL39	VOLUME	446979.893	3760854.618	213.010
LOCATION VOL40	VOLUME	446888.516	3760854.124	210.510
LOCATION VOL41	VOLUME	446886.540	3760779.541	210.000
LOCATION VOL42	VOLUME	446980.881	3760778.553	211.450
LOCATION VOL43	VOLUME	447074.233	3760778.059	210.000
LOCATION VOL44	VOLUME	447167.586	3760778.553	210.740
LOCATION VOL45	VOLUME	447261.542	3761130.609	213.790
LOCATION VOL46	VOLUME	447354.654	3761130.611	213.000
LOCATION VOL47	VOLUME	447448.792	3761131.192	212.500
LOCATION VOL48	VOLUME	447542.931	3761129.449	212.880
LOCATION VOL49	VOLUME	447566.175	3761130.030	213.000
LOCATION VOL50	VOLUME	447566.175	3761036.472	212.000
LOCATION VOL51	VOLUME	447473.199	3761037.634	212.000
LOCATION VOL52	VOLUME	447380.222	3761037.053	212.000
LOCATION VOL53	VOLUME	447286.664	3761035.891	213.000
LOCATION VOL54	VOLUME	447260.515	3761035.310	213.000
LOCATION VOL55	VOLUME	447262.258	3760942.333	212.000
LOCATION VOL56	VOLUME	447354.654	3760943.496	211.240
LOCATION VOL57	VOLUME	447447.630	3760945.239	211.000
LOCATION VOL58	VOLUME	447539.445	3760944.077	211.000
LOCATION VOL59	VOLUME	447561.527	3760944.077	211.000
LOCATION VOL60	VOLUME	447551.648	3760851.100	210.000
LOCATION VOL61	VOLUME	447456.928	3760852.262	210.000
LOCATION VOL62	VOLUME	447362.208	3760851.100	210.360
LOCATION VOL63	VOLUME	447269.812	3760849.938	211.040
LOCATION VOL64	VOLUME	447263.420	3760755.799	210.000
LOCATION VOL65	VOLUME	447356.397	3760756.380	210.000
LOCATION VOL66	VOLUME	447450.536	3760756.961	209.310
LOCATION VOL67	VOLUME	447546.418	3760758.704	209.000
LOCATION VOL68	VOLUME	447264.582	3760669.214	209.100
LOCATION VOL69	VOLUME	447358.721	3760702.918	209.080
LOCATION VOL70	VOLUME	447453.441	3760726.163	209.000
LOCATION VOL71	VOLUME	446884.540	3760685.485	210.000
LOCATION VOL72	VOLUME	446978.679	3760685.485	209.010
LOCATION VOL73	VOLUME	447072.237	3760684.904	210.000
LOCATION VOL74	VOLUME	447167.538	3760685.485	210.000
LOCATION VOL75	VOLUME	447169.281	3760618.658	209.280
LOCATION VOL76	VOLUME	447073.980	3760592.509	209.930
LOCATION VOL77	VOLUME	446979.260	3760591.928	209.510
LOCATION VOL78	VOLUME	446885.121	3760590.184	207.000
LOCATION VOL79	VOLUME	446881.054	3760504.181	207.000
LOCATION VOL80	VOLUME	446976.355	3760537.885	208.650
LOCATION VOL81	VOLUME	447071.656	3760573.332	209.830

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.0037295373	5.000	21.684	1.400
SRCPARAM VOL2	0.0037295373	5.000	21.684	1.400
SRCPARAM VOL3	0.0037295373	5.000	21.684	1.400
SRCPARAM VOL4	0.0037295373	5.000	21.684	1.400
SRCPARAM VOL5	0.0037295373	5.000	21.684	1.400
SRCPARAM VOL6	0.0037295373	5.000	21.684	1.400
SRCPARAM VOL7	0.0037295373	5.000	21.684	1.400
SRCPARAM VOL8	0.0037295373	5.000	21.684	1.400
SRCPARAM VOL9	0.0037295373	5.000	21.684	1.400
SRCPARAM VOL10	0.0037295373	5.000	21.684	1.400
SRCPARAM VOL11	0.0037295373	5.000	21.684	1.400
SRCPARAM VOL12	0.0037295373	5.000	21.684	1.400
SRCPARAM VOL13	0.0037295373	5.000	21.684	1.400





```

SRCPARAM VOL80          0.0037295373    5.000    21.684    1.400
SRCPARAM VOL81          0.0037295373    5.000    21.684    1.400
URBANSRC ALL
SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
  INCLUDED "14252 Ops NO2.rou"
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
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
** Auto-Generated Plotfiles
  PLOTFILE 1 ALL 1ST "14252 OPS NO2.AD\01H1GALL.PLT" 31
  SUMMFILE "14252 Ops NO2.sum"
OU FINISHED
**
*****
** Project Parameters
*****
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    World Geodetic System 1984
** DTMRGN   Global Definition
** UNITS    m
** ZONE     11
** ZONEINX  0
**

```

```
** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.0.0
** Lakes Environmental Software Inc.
** Date: 9/22/2022
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29 AQIA\14252 Ops NO2\14252 Ops
NO2.ADI
**
```

```
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
```

```
CO STARTING
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29 AQIA\14252 Ops
MODELOPT DFAULT CONC
AVERTIME 1
URBANOPT 2035210
POLLUTID NOX
FLAGPOLE 2.00
RUNORNOT RUN
ERRORFIL "14252 Ops NO2.err"
```

```
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
```

```
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
```

LOCATION	VOL	VOLUME	X Coord.	Y Coord.	Z Coord.
LOCATION VOL1		446353.525	3761131.686		210.000
LOCATION VOL2		446446.125	3761131.042		210.490
LOCATION VOL3		446539.533	3761130.447		211.160
LOCATION VOL4		446633.040	3761129.753		212.700
LOCATION VOL5		446726.282	3761130.182		213.760
LOCATION VOL6		446765.912	3761130.249		214.410
LOCATION VOL7		446765.912	3761036.279		213.290
LOCATION VOL8		446671.941	3761036.279		211.830
LOCATION VOL9		446577.377	3761036.279		210.730
LOCATION VOL10		446482.812	3761036.279		209.630
LOCATION VOL11		446389.436	3761038.063		208.600
LOCATION VOL12		446353.751	3760945.877		207.050
LOCATION VOL13		446446.532	3760945.282		208.070
LOCATION VOL14		446541.692	3760943.498		209.100
LOCATION VOL15		446633.283	3760942.903		210.100
LOCATION VOL16		446726.658	3760943.498		210.240
LOCATION VOL17		446755.206	3760943.498		210.770
LOCATION VOL18		446748.664	3760849.528		210.000
LOCATION VOL19		446655.883	3760850.122		209.000
LOCATION VOL20		446563.103	3760850.122		208.020
LOCATION VOL21		446470.322	3760860.233		207.480
LOCATION VOL22		446354.346	3761039.252		208.430
LOCATION VOL23		446376.946	3760860.828		207.000
LOCATION VOL24		446353.751	3760857.854		207.000
LOCATION VOL25		446885.787	3761133.683		216.000
LOCATION VOL26		446980.128	3761132.999		216.000
LOCATION VOL27		447072.419	3761132.316		216.000
LOCATION VOL28		447165.393	3761130.948		214.900

LOCATION VOL29	VOLUME	447166.104	3761038.359	214.000
LOCATION VOL30	VOLUME	447072.257	3761040.335	214.000
LOCATION VOL31	VOLUME	446979.399	3761039.347	214.440
LOCATION VOL32	VOLUME	446885.553	3761040.335	214.470
LOCATION VOL33	VOLUME	446886.540	3760946.983	213.100
LOCATION VOL34	VOLUME	446979.893	3760946.983	213.000
LOCATION VOL35	VOLUME	447073.739	3760948.464	213.090
LOCATION VOL36	VOLUME	447168.080	3760946.489	213.000
LOCATION VOL37	VOLUME	447169.561	3760852.148	212.130
LOCATION VOL38	VOLUME	447076.209	3760854.618	213.210
LOCATION VOL39	VOLUME	446979.893	3760854.618	213.010
LOCATION VOL40	VOLUME	446888.516	3760854.124	210.510
LOCATION VOL41	VOLUME	446886.540	3760779.541	210.000
LOCATION VOL42	VOLUME	446980.881	3760778.553	211.450
LOCATION VOL43	VOLUME	447074.233	3760778.059	210.000
LOCATION VOL44	VOLUME	447167.586	3760778.553	210.740
LOCATION VOL45	VOLUME	447261.542	3761130.609	213.790
LOCATION VOL46	VOLUME	447354.654	3761130.611	213.000
LOCATION VOL47	VOLUME	447448.792	3761131.192	212.500
LOCATION VOL48	VOLUME	447542.931	3761129.449	212.880
LOCATION VOL49	VOLUME	447566.175	3761130.030	213.000
LOCATION VOL50	VOLUME	447566.175	3761036.472	212.000
LOCATION VOL51	VOLUME	447473.199	3761037.634	212.000
LOCATION VOL52	VOLUME	447380.222	3761037.053	212.000
LOCATION VOL53	VOLUME	447286.664	3761035.891	213.000
LOCATION VOL54	VOLUME	447260.515	3761035.310	213.000
LOCATION VOL55	VOLUME	447262.258	3760942.333	212.000
LOCATION VOL56	VOLUME	447354.654	3760943.496	211.240
LOCATION VOL57	VOLUME	447447.630	3760945.239	211.000
LOCATION VOL58	VOLUME	447539.445	3760944.077	211.000
LOCATION VOL59	VOLUME	447561.527	3760944.077	211.000
LOCATION VOL60	VOLUME	447551.648	3760851.100	210.000
LOCATION VOL61	VOLUME	447456.928	3760852.262	210.000
LOCATION VOL62	VOLUME	447362.208	3760851.100	210.360
LOCATION VOL63	VOLUME	447269.812	3760849.938	211.040
LOCATION VOL64	VOLUME	447263.420	3760755.799	210.000
LOCATION VOL65	VOLUME	447356.397	3760756.380	210.000
LOCATION VOL66	VOLUME	447450.536	3760756.961	209.310
LOCATION VOL67	VOLUME	447546.418	3760758.704	209.000
LOCATION VOL68	VOLUME	447264.582	3760669.214	209.100
LOCATION VOL69	VOLUME	447358.721	3760702.918	209.080
LOCATION VOL70	VOLUME	447453.441	3760726.163	209.000
LOCATION VOL71	VOLUME	446884.540	3760685.485	210.000
LOCATION VOL72	VOLUME	446978.679	3760685.485	209.010
LOCATION VOL73	VOLUME	447072.237	3760684.904	210.000
LOCATION VOL74	VOLUME	447167.538	3760685.485	210.000
LOCATION VOL75	VOLUME	447169.281	3760618.658	209.280
LOCATION VOL76	VOLUME	447073.980	3760592.509	209.930
LOCATION VOL77	VOLUME	446979.260	3760591.928	209.510
LOCATION VOL78	VOLUME	446885.121	3760590.184	207.000
LOCATION VOL79	VOLUME	446881.054	3760504.181	207.000
LOCATION VOL80	VOLUME	446976.355	3760537.885	208.650
LOCATION VOL81	VOLUME	447071.656	3760573.332	209.830

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.0037295373	5.000	21.684	1.400
SRCPARAM VOL2	0.0037295373	5.000	21.684	1.400
SRCPARAM VOL3	0.0037295373	5.000	21.684	1.400
SRCPARAM VOL4	0.0037295373	5.000	21.684	1.400
SRCPARAM VOL5	0.0037295373	5.000	21.684	1.400
SRCPARAM VOL6	0.0037295373	5.000	21.684	1.400
SRCPARAM VOL7	0.0037295373	5.000	21.684	1.400
SRCPARAM VOL8	0.0037295373	5.000	21.684	1.400
SRCPARAM VOL9	0.0037295373	5.000	21.684	1.400
SRCPARAM VOL10	0.0037295373	5.000	21.684	1.400
SRCPARAM VOL11	0.0037295373	5.000	21.684	1.400
SRCPARAM VOL12	0.0037295373	5.000	21.684	1.400



SRCPARAM VOL79 0.0037295373 5.000 21.684 1.400  
SRCPARAM VOL80 0.0037295373 5.000 21.684 1.400  
SRCPARAM VOL81 0.0037295373 5.000 21.684 1.400

URBANSRC ALL  
SRCGROUP ALL

SO FINISHED

\*\*  
\*\*\*\*\*  
\*\* AERMOD Receptor Pathway  
\*\*\*\*\*

RE STARTING  
INCLUDED "14252 Ops NO2.rou"  
RE FINISHED

\*\*  
\*\*\*\*\*  
\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*

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  
\*\* Auto-Generated Plotfiles  
PLOTFILE 1 ALL 1ST "14252 OPS NO2.AD\01H1GALL.PLT" 31  
SUMMFILE "14252 Ops NO2.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 224 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 224 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.
- \* Model Uses NO DRY DEPLETION. DDPLETE = F
- \* Model Uses NO WET DEPLETION. WETDPLT = F
- \* Stack-tip Downwash.
- \* Model Accounts for ELEVated Terrain Effects.
- \* Use Calms Processing Routine.
- \* Use Missing Data Processing Routine.
- \* No Exponential Decay.
- \* Model Uses URBAN Dispersion Algorithm for the SBL for 81 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2035210.0 ; Urban Roughness Length = 1.000 m
- \* Urban Roughness Length of 1.0 Meter Used.
- \* 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 Accepts FLAGPOLE Receptor . Heights.
- \* The User Specified a Pollutant Type of: NOX

\*\*Model Calculates 1 Short Term Average(s) of: 1-HR

\*\*This Run Includes: 81 Source(s); 1 Source Group(s); and 81 Receptor(s)

- with: 0 POINT(s), including
- 0 POINTCAP(s) and 0 POINTHOR(s)
- and: 81 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 a total of 0 line(s)
- and: 0 SWPOINT source(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 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







VOL41 YES	0	0.37295E-02	446886.5	3760779.5	210.0	5.00	21.68	1.40
VOL42 YES	0	0.37295E-02	446980.9	3760778.6	211.5	5.00	21.68	1.40
VOL43 YES	0	0.37295E-02	447074.2	3760778.1	210.0	5.00	21.68	1.40
VOL44 YES	0	0.37295E-02	447167.6	3760778.6	210.7	5.00	21.68	1.40
VOL45 YES	0	0.37295E-02	447261.5	3761130.6	213.8	5.00	21.68	1.40
VOL46 YES	0	0.37295E-02	447354.7	3761130.6	213.0	5.00	21.68	1.40
VOL47 YES	0	0.37295E-02	447448.8	3761131.2	212.5	5.00	21.68	1.40
VOL48 YES	0	0.37295E-02	447542.9	3761129.4	212.9	5.00	21.68	1.40
VOL49 YES	0	0.37295E-02	447566.2	3761130.0	213.0	5.00	21.68	1.40
VOL50 YES	0	0.37295E-02	447566.2	3761036.5	212.0	5.00	21.68	1.40
VOL51 YES	0	0.37295E-02	447473.2	3761037.6	212.0	5.00	21.68	1.40
VOL52 YES	0	0.37295E-02	447380.2	3761037.1	212.0	5.00	21.68	1.40
VOL53 YES	0	0.37295E-02	447286.7	3761035.9	213.0	5.00	21.68	1.40
VOL54 YES	0	0.37295E-02	447260.5	3761035.3	213.0	5.00	21.68	1.40
VOL55 YES	0	0.37295E-02	447262.3	3760942.3	212.0	5.00	21.68	1.40
VOL56 YES	0	0.37295E-02	447354.7	3760943.5	211.2	5.00	21.68	1.40
VOL57 YES	0	0.37295E-02	447447.6	3760945.2	211.0	5.00	21.68	1.40
VOL58 YES	0	0.37295E-02	447539.4	3760944.1	211.0	5.00	21.68	1.40
VOL59 YES	0	0.37295E-02	447561.5	3760944.1	211.0	5.00	21.68	1.40
VOL60 YES	0	0.37295E-02	447551.6	3760851.1	210.0	5.00	21.68	1.40
VOL61 YES	0	0.37295E-02	447456.9	3760852.3	210.0	5.00	21.68	1.40
VOL62 YES	0	0.37295E-02	447362.2	3760851.1	210.4	5.00	21.68	1.40
VOL63 YES	0	0.37295E-02	447269.8	3760849.9	211.0	5.00	21.68	1.40
VOL64 YES	0	0.37295E-02	447263.4	3760755.8	210.0	5.00	21.68	1.40
VOL65 YES	0	0.37295E-02	447356.4	3760756.4	210.0	5.00	21.68	1.40
VOL66 YES	0	0.37295E-02	447450.5	3760757.0	209.3	5.00	21.68	1.40
VOL67 YES	0	0.37295E-02	447546.4	3760758.7	209.0	5.00	21.68	1.40
VOL68 YES	0	0.37295E-02	447264.6	3760669.2	209.1	5.00	21.68	1.40
VOL69 YES	0	0.37295E-02	447358.7	3760702.9	209.1	5.00	21.68	1.40
VOL70 YES	0	0.37295E-02	447453.4	3760726.2	209.0	5.00	21.68	1.40
VOL71 YES	0	0.37295E-02	446884.5	3760685.5	210.0	5.00	21.68	1.40
VOL72 YES	0	0.37295E-02	446978.7	3760685.5	209.0	5.00	21.68	1.40
VOL73 YES	0	0.37295E-02	447072.2	3760684.9	210.0	5.00	21.68	1.40



VOL41 , VOL42 , VOL43 , VOL44 , VOL45 , VOL46 ,  
VOL47 , VOL48 ,  
VOL49 , VOL50 , VOL51 , VOL52 , VOL53 , VOL54 ,  
VOL55 , VOL56 ,  
VOL57 , VOL58 , VOL59 , VOL60 , VOL61 , VOL62 ,  
VOL63 , VOL64 ,  
VOL65 , VOL66 , VOL67 , VOL68 , VOL69 , VOL70 ,  
VOL71 , VOL72 ,  
VOL73 , VOL74 , VOL75 , VOL76 , VOL77 , VOL78 ,  
VOL79 , VOL80 ,

VOL81 ,

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29  
AQIA\14252 Ops \*\*\* 09/22/22  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 12:04:24

PAGE 6

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

URBAN ID	URBAN POP	SOURCE IDs						
-----	-----	-----						
	2035210.	VOL1	, VOL2	, VOL3	, VOL4	, VOL5	,	
	VOL6	, VOL7	,					
VOL8	,							
	VOL9	, VOL10	, VOL11	, VOL12	, VOL13	, VOL14	,	
	VOL15	, VOL16	,					
	VOL17	, VOL18	, VOL19	, VOL20	, VOL21	, VOL22	,	
	VOL23	, VOL24	,					
	VOL25	, VOL26	, VOL27	, VOL28	, VOL29	, VOL30	,	
	VOL31	, VOL32	,					
	VOL33	, VOL34	, VOL35	, VOL36	, VOL37	, VOL38	,	
	VOL39	, VOL40	,					
	VOL41	, VOL42	, VOL43	, VOL44	, VOL45	, VOL46	,	
	VOL47	, VOL48	,					
	VOL49	, VOL50	, VOL51	, VOL52	, VOL53	, VOL54	,	
	VOL55	, VOL56	,					
	VOL57	, VOL58	, VOL59	, VOL60	, VOL61	, VOL62	,	
	VOL63	, VOL64	,					
	VOL65	, VOL66	, VOL67	, VOL68	, VOL69	, VOL70	,	
	VOL71	, VOL72	,					
	VOL73	, VOL74	, VOL75	, VOL76	, VOL77	, VOL78	,	
	VOL79	, VOL80	,					
	VOL81	,						

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29  
AQIA\14252 Ops \*\*\* 09/22/22  
\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 446880.6, 3760419.5, 207.0, 207.0, 2.0);	( 446886.3, 3760422.3, 207.0, 207.0, 2.0);
( 446909.2, 3760429.0, 207.0, 207.0, 2.0);	( 446932.4, 3760438.0, 207.3, 207.3, 2.0);
( 446953.6, 3760447.2, 207.4, 207.4, 2.0);	( 446975.6, 3760454.9, 207.9, 207.9, 2.0);
( 446990.2, 3760460.5, 208.0, 208.0, 2.0);	( 447027.1, 3760473.2, 208.0, 208.0, 2.0);
( 447050.9, 3760483.6, 208.4, 208.4, 2.0);	( 447070.3, 3760490.6, 209.0, 209.0, 2.0);
( 447089.8, 3760497.4, 209.0, 209.0, 2.0);	( 447109.3, 3760505.8, 208.9, 208.9, 2.0);
( 447130.0, 3760512.9, 208.9, 208.9, 2.0);	( 447151.3, 3760520.7, 209.0, 209.0, 2.0);
( 447193.4, 3760535.7, 208.6, 208.6, 2.0);	( 447230.8, 3760550.4, 208.1, 208.1, 2.0);
( 447252.1, 3760557.7, 208.0, 208.0, 2.0);	( 447273.7, 3760565.5, 208.0, 208.0, 2.0);
( 447292.7, 3760572.8, 208.0, 208.0, 2.0);	( 447339.1, 3760589.1, 208.0, 208.0, 2.0);
( 447365.4, 3760597.9, 208.0, 208.0, 2.0);	( 447401.6, 3760610.9, 208.1, 208.1, 2.0);
( 447434.1, 3760622.3, 208.0, 208.0, 2.0);	( 447468.0, 3760634.8, 208.0, 208.0, 2.0);
( 447497.5, 3760645.0, 208.3, 208.3, 2.0);	( 447521.4, 3760652.6, 208.5, 208.5, 2.0);
( 447547.0, 3760662.6, 208.9, 208.9, 2.0);	( 447578.8, 3760675.1, 209.0, 209.0, 2.0);
( 447648.3, 3760700.8, 209.0, 209.0, 2.0);	( 447679.0, 3760712.0, 209.0, 209.0, 2.0);
( 447705.1, 3760721.8, 209.0, 209.0, 2.0);	( 447666.0, 3760779.6, 209.8, 209.8, 2.0);
( 447647.4, 3760831.4, 210.0, 210.0, 2.0);	( 447648.7, 3760893.4, 210.6, 210.6, 2.0);
( 447649.4, 3760953.0, 211.0, 211.0, 2.0);	( 447648.7, 3760987.3, 211.7, 211.7, 2.0);
( 447649.0, 3761070.7, 212.5, 212.5, 2.0);	( 447649.2, 3761155.1, 213.0, 213.0, 2.0);
( 447577.5, 3761210.6, 213.1, 213.1, 2.0);	( 447650.0, 3761221.8, 214.0, 214.0, 2.0);
( 446484.6, 3761227.3, 212.0, 212.0, 2.0);	( 446553.2, 3761230.1, 212.6, 212.6, 2.0);
( 446513.5, 3761230.1, 212.0, 212.0, 2.0);	( 446297.9, 3761173.0, 210.0, 210.0, 2.0);
( 446296.6, 3761131.3, 209.9, 209.9, 2.0);	( 446296.6, 3761111.8, 209.7, 209.7, 2.0);
( 446296.8, 3761092.8, 209.2, 209.2, 2.0);	( 446295.8, 3761072.8, 209.0, 209.0, 2.0);
( 446296.6, 3761056.1, 209.0, 209.0, 2.0);	( 446296.3, 3761037.7, 208.4, 208.4, 2.0);
( 446296.3, 3761019.4, 208.0, 208.0, 2.0);	( 446295.3, 3761001.3, 208.0, 208.0, 2.0);
( 446295.5, 3760982.3, 207.5, 207.5, 2.0);	( 446295.5, 3760963.7, 207.0, 207.0, 2.0);
( 446294.6, 3760945.4, 207.0, 207.0, 2.0);	( 446295.3, 3760926.4, 207.0, 207.0, 2.0);
( 446295.0, 3760909.8, 207.0, 207.0, 2.0);	( 446294.0, 3760894.8, 207.0, 207.0, 2.0);



\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL 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

Upper air station no.: 3190

Name: UNKNOWN

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	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 22112 ***    *** C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29
AQIA\14252 Ops ***                09/22/22

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*** AERMET - VERSION 16216 ***
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\*\*\* 12:04:24

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*** MODELOPTs:  RegDFAULT CONC  ELEV  FLGPOL  URBAN  ADJ_U*

```

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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR
SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 ,
VOL3 , VOL4 , VOL5 ,
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,
VOL11 , VOL12 , VOL13 ,
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,
VOL19 , VOL20 , VOL21 ,
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,
VOL27 , VOL28 , . . .

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\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

```

** CONC OF NOX IN **
MICROGRAMS/M**3

```

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
446880.58	3760419.47	6.51416	(16020317)	446886.26	
3760422.30	6.49382	(16020317)			
446909.21	3760429.01	6.25918	(16020317)	446932.42	
3760438.03	6.64078	(16020317)			
446953.64	3760447.19	7.18789	(16020317)	446975.65	
3760454.95	7.20148	(16020317)			
446990.22	3760460.49	6.99573	(16020317)	447027.12	
3760473.16	7.09456	(12012917)			
447050.87	3760483.61	7.57465	(16020317)	447070.35	
3760490.58	7.23717	(16020317)			
447089.83	3760497.39	7.52312	(12012917)	447109.31	
3760505.78	8.95187	(12012917)			
447130.05	3760512.91	8.88922	(12012917)	447151.27	
3760520.67	7.51106	(12012917)			
447193.40	3760535.71	6.67035	(14091122)	447230.77	
3760550.44	6.90376	(12012917)			
447252.15	3760557.73	6.43962	(13083102)	447273.69	
3760565.49	6.30272	(12100607)			
447292.69	3760572.77	6.26981	(12100607)	447339.09	
3760589.08	6.24644	(13083102)			
447365.38	3760597.95	6.15659	(13083102)	447401.65	
3760610.94	6.21412	(13083102)			





\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL4 , VOL5 ,  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF NOX IN  
MICROGRAMS/M\*\*3 \*\*

X-COORD (M) (M)	Y-COORD (M) CONC	(YYMMDDHH)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
446708.26 (15031219)	3760360.35		4.01971			

\*\*\* AERMOD - VERSION 22112 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29  
AQIA\14252 Ops \*\*\* 09/22/22  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 12:04:24

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 1-HR RESULTS \*\*\*

\*\* CONC OF NOX IN  
MICROGRAMS/M\*\*3 \*\*

GROUP ID	AVERAGE CONC	DATE	RECEPTOR	NETWORK
ZELEV, ZHILL, ZFLAG)	OF TYPE GRID-ID	(YYMMDDHH)	(XR, YR,	
ALL HIGH 1ST HIGH VALUE IS 213.00, 213.00, 2.00) DC	9.61420	ON 13041207: AT (	447649.16,	3761155.12,

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

\*\*\* AERMOD - VERSION 22112 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29  
AQIA\14252 Ops \*\*\* 09/22/22  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 12:04:24

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- 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 224 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 224 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*

\*\*  
\*\*\*\*\*  
\*\*  
\*\* AERMOD Input Produced by:  
\*\* AERMOD View Ver. 11.0.0  
\*\* Lakes Environmental Software Inc.  
\*\* Date: 9/22/2022  
\*\* File: C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29 AQIA\14252 Ops PM10\14252 Ops  
PM10.ADI  
\*\*

\*\*\*\*\*  
\*\*  
\*\*  
\*\*\*\*\*  
\*\* AERMOD Control Pathway  
\*\*\*\*\*  
\*\*  
\*\*

CO STARTING  
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29 AQIA\14252 Ops  
MODELOPT DFAULT CONC  
AVERTIME 24  
URBANOPT 2035210  
POLLUTID PM\_10  
FLAGPOLE 2.00  
RUNORNOT RUN  
ERRORFIL "14252 Ops PM10.err"

CO FINISHED

\*\*  
\*\*\*\*\*  
\*\* AERMOD Source Pathway  
\*\*\*\*\*

\*\*  
\*\*

SO STARTING

\*\* Source Location \*\*

\*\* Source ID - Type - X Coord. - Y Coord. \*\*

LOCATION VOL1	VOLUME	446353.525	3761131.686	210.000
LOCATION VOL2	VOLUME	446446.125	3761131.042	210.490
LOCATION VOL3	VOLUME	446539.533	3761130.447	211.160
LOCATION VOL4	VOLUME	446633.040	3761129.753	212.700
LOCATION VOL5	VOLUME	446726.282	3761130.182	213.760
LOCATION VOL6	VOLUME	446765.912	3761130.249	214.410
LOCATION VOL7	VOLUME	446765.912	3761036.279	213.290
LOCATION VOL8	VOLUME	446671.941	3761036.279	211.830
LOCATION VOL9	VOLUME	446577.377	3761036.279	210.730
LOCATION VOL10	VOLUME	446482.812	3761036.279	209.630
LOCATION VOL11	VOLUME	446389.436	3761038.063	208.600
LOCATION VOL12	VOLUME	446353.751	3760945.877	207.050
LOCATION VOL13	VOLUME	446446.532	3760945.282	208.070
LOCATION VOL14	VOLUME	446541.692	3760943.498	209.100
LOCATION VOL15	VOLUME	446633.283	3760942.903	210.100
LOCATION VOL16	VOLUME	446726.658	3760943.498	210.240
LOCATION VOL17	VOLUME	446755.206	3760943.498	210.770
LOCATION VOL18	VOLUME	446748.664	3760849.528	210.000
LOCATION VOL19	VOLUME	446655.883	3760850.122	209.000
LOCATION VOL20	VOLUME	446563.103	3760850.122	208.020
LOCATION VOL21	VOLUME	446470.322	3760860.233	207.480
LOCATION VOL22	VOLUME	446354.346	3761039.252	208.430
LOCATION VOL23	VOLUME	446376.946	3760860.828	207.000
LOCATION VOL24	VOLUME	446353.751	3760857.854	207.000
LOCATION VOL25	VOLUME	446885.787	3761133.683	216.000
LOCATION VOL26	VOLUME	446980.128	3761132.999	216.000
LOCATION VOL27	VOLUME	447072.419	3761132.316	216.000
LOCATION VOL28	VOLUME	447165.393	3761130.948	214.900
LOCATION VOL29	VOLUME	447166.104	3761038.359	214.000

LOCATION VOL30	VOLUME	447072.257	3761040.335	214.000
LOCATION VOL31	VOLUME	446979.399	3761039.347	214.440
LOCATION VOL32	VOLUME	446885.553	3761040.335	214.470
LOCATION VOL33	VOLUME	446886.540	3760946.983	213.100
LOCATION VOL34	VOLUME	446979.893	3760946.983	213.000
LOCATION VOL35	VOLUME	447073.739	3760948.464	213.090
LOCATION VOL36	VOLUME	447168.080	3760946.489	213.000
LOCATION VOL37	VOLUME	447169.561	3760852.148	212.130
LOCATION VOL38	VOLUME	447076.209	3760854.618	213.210
LOCATION VOL39	VOLUME	446979.893	3760854.618	213.010
LOCATION VOL40	VOLUME	446888.516	3760854.124	210.510
LOCATION VOL41	VOLUME	446886.540	3760779.541	210.000
LOCATION VOL42	VOLUME	446980.881	3760778.553	211.450
LOCATION VOL43	VOLUME	447074.233	3760778.059	210.000
LOCATION VOL44	VOLUME	447167.586	3760778.553	210.740
LOCATION VOL45	VOLUME	447261.542	3761130.609	213.790
LOCATION VOL46	VOLUME	447354.654	3761130.611	213.000
LOCATION VOL47	VOLUME	447448.792	3761131.192	212.500
LOCATION VOL48	VOLUME	447542.931	3761129.449	212.880
LOCATION VOL49	VOLUME	447566.175	3761130.030	213.000
LOCATION VOL50	VOLUME	447566.175	3761036.472	212.000
LOCATION VOL51	VOLUME	447473.199	3761037.634	212.000
LOCATION VOL52	VOLUME	447380.222	3761037.053	212.000
LOCATION VOL53	VOLUME	447286.664	3761035.891	213.000
LOCATION VOL54	VOLUME	447260.515	3761035.310	213.000
LOCATION VOL55	VOLUME	447262.258	3760942.333	212.000
LOCATION VOL56	VOLUME	447354.654	3760943.496	211.240
LOCATION VOL57	VOLUME	447447.630	3760945.239	211.000
LOCATION VOL58	VOLUME	447539.445	3760944.077	211.000
LOCATION VOL59	VOLUME	447561.527	3760944.077	211.000
LOCATION VOL60	VOLUME	447551.648	3760851.100	210.000
LOCATION VOL61	VOLUME	447456.928	3760852.262	210.000
LOCATION VOL62	VOLUME	447362.208	3760851.100	210.360
LOCATION VOL63	VOLUME	447269.812	3760849.938	211.040
LOCATION VOL64	VOLUME	447263.420	3760755.799	210.000
LOCATION VOL65	VOLUME	447356.397	3760756.380	210.000
LOCATION VOL66	VOLUME	447450.536	3760756.961	209.310
LOCATION VOL67	VOLUME	447546.418	3760758.704	209.000
LOCATION VOL68	VOLUME	447264.582	3760669.214	209.100
LOCATION VOL69	VOLUME	447358.721	3760702.918	209.080
LOCATION VOL70	VOLUME	447453.441	3760726.163	209.000
LOCATION VOL71	VOLUME	446884.540	3760685.485	210.000
LOCATION VOL72	VOLUME	446978.679	3760685.485	209.010
LOCATION VOL73	VOLUME	447072.237	3760684.904	210.000
LOCATION VOL74	VOLUME	447167.538	3760685.485	210.000
LOCATION VOL75	VOLUME	447169.281	3760618.658	209.280
LOCATION VOL76	VOLUME	447073.980	3760592.509	209.930
LOCATION VOL77	VOLUME	446979.260	3760591.928	209.510
LOCATION VOL78	VOLUME	446885.121	3760590.184	207.000
LOCATION VOL79	VOLUME	446881.054	3760504.181	207.000
LOCATION VOL80	VOLUME	446976.355	3760537.885	208.650
LOCATION VOL81	VOLUME	447071.656	3760573.332	209.830

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.0007320477	5.000	21.684	1.400
SRCPARAM VOL2	0.0007320477	5.000	21.684	1.400
SRCPARAM VOL3	0.0007320477	5.000	21.684	1.400
SRCPARAM VOL4	0.0007320477	5.000	21.684	1.400
SRCPARAM VOL5	0.0007320477	5.000	21.684	1.400
SRCPARAM VOL6	0.0007320477	5.000	21.684	1.400
SRCPARAM VOL7	0.0007320477	5.000	21.684	1.400
SRCPARAM VOL8	0.0007320477	5.000	21.684	1.400
SRCPARAM VOL9	0.0007320477	5.000	21.684	1.400
SRCPARAM VOL10	0.0007320477	5.000	21.684	1.400
SRCPARAM VOL11	0.0007320477	5.000	21.684	1.400
SRCPARAM VOL12	0.0007320477	5.000	21.684	1.400
SRCPARAM VOL13	0.0007320477	5.000	21.684	1.400



SRCPARAM VOL80 0.0007320477 5.000 21.684 1.400  
SRCPARAM VOL81 0.0007320477 5.000 21.684 1.400  
URBANSRC ALL  
SRCGROUP ALL

SO FINISHED

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\*\*\*\*\*

\*\* AERMOD Receptor Pathway  
\*\*\*\*\*

\*\*  
\*\*

RE STARTING  
INCLUDED "14252 Ops PM10.rou"

RE FINISHED  
\*\*  
\*\*\*\*\*

\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*

\*\*  
\*\*

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 24 1ST  
\*\* Auto-Generated Plotfiles  
PLOTFILE 24 ALL 1ST "14252 OPS PM10.AD\24H1GALL.PLT" 31  
SUMMFILE "14252 Ops PM10.sum"

OU FINISHED  
\*\*  
\*\*\*\*\*

\*\* Project Parameters  
\*\*\*\*\*  
\*\* PROJCTN CoordinateSystemUTM  
\*\* DESCPTN UTM: Universal Transverse Mercator  
\*\* DATUM World Geodetic System 1984  
\*\* DTMRGN Global Definition  
\*\* UNITS m  
\*\* ZONE 11  
\*\* ZONEINX 0  
\*\*

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.0.0
** Lakes Environmental Software Inc.
** Date: 9/22/2022
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29 AQIA\14252 Ops PM10\14252 Ops
PM10.ADI
**

```

```

*****
**
**
*****
** AERMOD Control Pathway
*****
**
**

```

```

CO STARTING
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29 AQIA\14252 Ops
MODELOPT DFAULT CONC
AVERTIME 24
URBANOPT 2035210
POLLUTID PM_10
FLAGPOLE 2.00
RUNORNOT RUN
ERRORFIL "14252 Ops PM10.err"

```

```

CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**

```

```

SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **

```

LOCATION	VOL	VOLUME	X Coord.	Y Coord.	Z Coord.
LOCATION VOL1		446353.525	3761131.686		210.000
LOCATION VOL2		446446.125	3761131.042		210.490
LOCATION VOL3		446539.533	3761130.447		211.160
LOCATION VOL4		446633.040	3761129.753		212.700
LOCATION VOL5		446726.282	3761130.182		213.760
LOCATION VOL6		446765.912	3761130.249		214.410
LOCATION VOL7		446765.912	3761036.279		213.290
LOCATION VOL8		446671.941	3761036.279		211.830
LOCATION VOL9		446577.377	3761036.279		210.730
LOCATION VOL10		446482.812	3761036.279		209.630
LOCATION VOL11		446389.436	3761038.063		208.600
LOCATION VOL12		446353.751	3760945.877		207.050
LOCATION VOL13		446446.532	3760945.282		208.070
LOCATION VOL14		446541.692	3760943.498		209.100
LOCATION VOL15		446633.283	3760942.903		210.100
LOCATION VOL16		446726.658	3760943.498		210.240
LOCATION VOL17		446755.206	3760943.498		210.770
LOCATION VOL18		446748.664	3760849.528		210.000
LOCATION VOL19		446655.883	3760850.122		209.000
LOCATION VOL20		446563.103	3760850.122		208.020
LOCATION VOL21		446470.322	3760860.233		207.480
LOCATION VOL22		446354.346	3761039.252		208.430
LOCATION VOL23		446376.946	3760860.828		207.000
LOCATION VOL24		446353.751	3760857.854		207.000
LOCATION VOL25		446885.787	3761133.683		216.000
LOCATION VOL26		446980.128	3761132.999		216.000
LOCATION VOL27		447072.419	3761132.316		216.000
LOCATION VOL28		447165.393	3761130.948		214.900



LOCATION VOL29	VOLUME	447166.104	3761038.359	214.000
LOCATION VOL30	VOLUME	447072.257	3761040.335	214.000
LOCATION VOL31	VOLUME	446979.399	3761039.347	214.440
LOCATION VOL32	VOLUME	446885.553	3761040.335	214.470
LOCATION VOL33	VOLUME	446886.540	3760946.983	213.100
LOCATION VOL34	VOLUME	446979.893	3760946.983	213.000
LOCATION VOL35	VOLUME	447073.739	3760948.464	213.090
LOCATION VOL36	VOLUME	447168.080	3760946.489	213.000
LOCATION VOL37	VOLUME	447169.561	3760852.148	212.130
LOCATION VOL38	VOLUME	447076.209	3760854.618	213.210
LOCATION VOL39	VOLUME	446979.893	3760854.618	213.010
LOCATION VOL40	VOLUME	446888.516	3760854.124	210.510
LOCATION VOL41	VOLUME	446886.540	3760779.541	210.000
LOCATION VOL42	VOLUME	446980.881	3760778.553	211.450
LOCATION VOL43	VOLUME	447074.233	3760778.059	210.000
LOCATION VOL44	VOLUME	447167.586	3760778.553	210.740
LOCATION VOL45	VOLUME	447261.542	3761130.609	213.790
LOCATION VOL46	VOLUME	447354.654	3761130.611	213.000
LOCATION VOL47	VOLUME	447448.792	3761131.192	212.500
LOCATION VOL48	VOLUME	447542.931	3761129.449	212.880
LOCATION VOL49	VOLUME	447566.175	3761130.030	213.000
LOCATION VOL50	VOLUME	447566.175	3761036.472	212.000
LOCATION VOL51	VOLUME	447473.199	3761037.634	212.000
LOCATION VOL52	VOLUME	447380.222	3761037.053	212.000
LOCATION VOL53	VOLUME	447286.664	3761035.891	213.000
LOCATION VOL54	VOLUME	447260.515	3761035.310	213.000
LOCATION VOL55	VOLUME	447262.258	3760942.333	212.000
LOCATION VOL56	VOLUME	447354.654	3760943.496	211.240
LOCATION VOL57	VOLUME	447447.630	3760945.239	211.000
LOCATION VOL58	VOLUME	447539.445	3760944.077	211.000
LOCATION VOL59	VOLUME	447561.527	3760944.077	211.000
LOCATION VOL60	VOLUME	447551.648	3760851.100	210.000
LOCATION VOL61	VOLUME	447456.928	3760852.262	210.000
LOCATION VOL62	VOLUME	447362.208	3760851.100	210.360
LOCATION VOL63	VOLUME	447269.812	3760849.938	211.040
LOCATION VOL64	VOLUME	447263.420	3760755.799	210.000
LOCATION VOL65	VOLUME	447356.397	3760756.380	210.000
LOCATION VOL66	VOLUME	447450.536	3760756.961	209.310
LOCATION VOL67	VOLUME	447546.418	3760758.704	209.000
LOCATION VOL68	VOLUME	447264.582	3760669.214	209.100
LOCATION VOL69	VOLUME	447358.721	3760702.918	209.080
LOCATION VOL70	VOLUME	447453.441	3760726.163	209.000
LOCATION VOL71	VOLUME	446884.540	3760685.485	210.000
LOCATION VOL72	VOLUME	446978.679	3760685.485	209.010
LOCATION VOL73	VOLUME	447072.237	3760684.904	210.000
LOCATION VOL74	VOLUME	447167.538	3760685.485	210.000
LOCATION VOL75	VOLUME	447169.281	3760618.658	209.280
LOCATION VOL76	VOLUME	447073.980	3760592.509	209.930
LOCATION VOL77	VOLUME	446979.260	3760591.928	209.510
LOCATION VOL78	VOLUME	446885.121	3760590.184	207.000
LOCATION VOL79	VOLUME	446881.054	3760504.181	207.000
LOCATION VOL80	VOLUME	446976.355	3760537.885	208.650
LOCATION VOL81	VOLUME	447071.656	3760573.332	209.830

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.0007320477	5.000	21.684	1.400
SRCPARAM VOL2	0.0007320477	5.000	21.684	1.400
SRCPARAM VOL3	0.0007320477	5.000	21.684	1.400
SRCPARAM VOL4	0.0007320477	5.000	21.684	1.400
SRCPARAM VOL5	0.0007320477	5.000	21.684	1.400
SRCPARAM VOL6	0.0007320477	5.000	21.684	1.400
SRCPARAM VOL7	0.0007320477	5.000	21.684	1.400
SRCPARAM VOL8	0.0007320477	5.000	21.684	1.400
SRCPARAM VOL9	0.0007320477	5.000	21.684	1.400
SRCPARAM VOL10	0.0007320477	5.000	21.684	1.400
SRCPARAM VOL11	0.0007320477	5.000	21.684	1.400
SRCPARAM VOL12	0.0007320477	5.000	21.684	1.400



SRCPARAM VOL79 0.0007320477 5.000 21.684 1.400  
SRCPARAM VOL80 0.0007320477 5.000 21.684 1.400  
SRCPARAM VOL81 0.0007320477 5.000 21.684 1.400

URBANSRC ALL  
SRCGROUP ALL

SO FINISHED

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\*\*\*\*\*  
\*\* AERMOD Receptor Pathway  
\*\*\*\*\*

\*\*  
RE STARTING  
INCLUDED "14252 Ops PM10.rou"  
RE FINISHED

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\*\*\*\*\*  
\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*

\*\*  
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 24 1ST  
\*\* Auto-Generated Plotfiles  
PLOTFILE 24 ALL 1ST "14252 OPS PM10.AD\24H1GALL.PLT" 31  
SUMMFILE "14252 Ops PM10.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 224 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 224 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.
- \* Model Uses NO DRY DEPLETION. DDPLETE = F
- \* Model Uses NO WET DEPLETION. WETDPLT = F
- \* Stack-tip Downwash.
- \* Model Accounts for ELEVated Terrain Effects.
- \* Use Calms Processing Routine.
- \* Use Missing Data Processing Routine.
- \* No Exponential Decay.
- \* Model Uses URBAN Dispersion Algorithm for the SBL for 81 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2035210.0 ; Urban Roughness Length = 1.000 m
- \* Urban Roughness Length of 1.0 Meter Used.
- \* 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 Accepts FLAGPOLE Receptor . Heights.
- \* The User Specified a Pollutant Type of: PM\_10

\*\*Model Calculates 1 Short Term Average(s) of: 24-HR

\*\*This Run Includes: 81 Source(s); 1 Source Group(s); and 81 Receptor(s)

- with: 0 POINT(s), including
- 0 POINTCAP(s) and 0 POINTHOR(s)
- and: 81 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 a total of 0 line(s)
- and: 0 SWPOINT source(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 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







VOL74	0	0.73205E-03	447167.5	3760685.5	210.0	5.00	21.68	1.40
YES								
VOL75	0	0.73205E-03	447169.3	3760618.7	209.3	5.00	21.68	1.40
YES								
VOL76	0	0.73205E-03	447074.0	3760592.5	209.9	5.00	21.68	1.40
YES								
VOL77	0	0.73205E-03	446979.3	3760591.9	209.5	5.00	21.68	1.40
YES								
VOL78	0	0.73205E-03	446885.1	3760590.2	207.0	5.00	21.68	1.40
YES								
VOL79	0	0.73205E-03	446881.1	3760504.2	207.0	5.00	21.68	1.40
YES								
VOL80	0	0.73205E-03	446976.4	3760537.9	208.7	5.00	21.68	1.40
YES								

```

*** AERMOD - VERSION 22112 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29
AQIA\14252 Ops ***                   09/22/22
*** AERMET - VERSION 16216 ***
***                                     *** 12:14:38

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	PART.	NUMBER	EMISSION	RATE	X	Y	BASE	RELEASE	INIT.	INIT.
		URBAN	EMISSION	RATE			ELEV.	HEIGHT	SY	SZ
SOURCE	SCALAR	VARY	(GRAMS/SEC)		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
ID	CATS.		BY							
(METERS)										

VOL81	0	0.73205E-03	447071.7	3760573.3	209.8	5.00	21.68	1.40
YES								

```

*** AERMOD - VERSION 22112 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29
AQIA\14252 Ops ***                   09/22/22
*** AERMET - VERSION 16216 ***
***                                     *** 12:14:38

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP	ID	SOURCE IDs							
-----		-----							
ALL	VOL1	, VOL2	, VOL3	, VOL4	, VOL5	, VOL6	, VOL7	, VOL8	,
VOL7									
	VOL9	, VOL10	, VOL11	, VOL12	, VOL13	, VOL14	, VOL15	, VOL16	,
	VOL17	, VOL18	, VOL19	, VOL20	, VOL21	, VOL22	, VOL23	, VOL24	,
	VOL25	, VOL26	, VOL27	, VOL28	, VOL29	, VOL30	, VOL31	, VOL32	,
	VOL33	, VOL34	, VOL35	, VOL36	, VOL37	, VOL38	, VOL39	, VOL40	,



VOL41 , VOL42 , VOL43 , VOL44 , VOL45 , VOL46 ,  
VOL47 , VOL48 ,  
VOL49 , VOL50 , VOL51 , VOL52 , VOL53 , VOL54 ,  
VOL55 , VOL56 ,  
VOL57 , VOL58 , VOL59 , VOL60 , VOL61 , VOL62 ,  
VOL63 , VOL64 ,  
VOL65 , VOL66 , VOL67 , VOL68 , VOL69 , VOL70 ,  
VOL71 , VOL72 ,  
VOL73 , VOL74 , VOL75 , VOL76 , VOL77 , VOL78 ,  
VOL79 , VOL80 ,

VOL81 ,

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29  
AQIA\14252 Ops \*\*\* 09/22/22  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 12:14:38

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

URBAN ID	URBAN POP	SOURCE IDs						
-----	-----	-----	-----	-----	-----	-----	-----	-----
VOL8	2035210. VOL6	VOL1 , VOL7	, VOL2	, VOL3	, VOL4	, VOL5	, VOL6	, VOL8
	VOL9	, VOL10	, VOL11	, VOL12	, VOL13	, VOL14	, VOL15	, VOL16
	VOL17	, VOL18	, VOL19	, VOL20	, VOL21	, VOL22	, VOL23	, VOL24
	VOL25	, VOL26	, VOL27	, VOL28	, VOL29	, VOL30	, VOL31	, VOL32
	VOL33	, VOL34	, VOL35	, VOL36	, VOL37	, VOL38	, VOL39	, VOL40
	VOL41	, VOL42	, VOL43	, VOL44	, VOL45	, VOL46	, VOL47	, VOL48
	VOL49	, VOL50	, VOL51	, VOL52	, VOL53	, VOL54	, VOL55	, VOL56
	VOL57	, VOL58	, VOL59	, VOL60	, VOL61	, VOL62	, VOL63	, VOL64
	VOL65	, VOL66	, VOL67	, VOL68	, VOL69	, VOL70	, VOL71	, VOL72
	VOL73	, VOL74	, VOL75	, VOL76	, VOL77	, VOL78	, VOL79	, VOL80

VOL81 ,

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29  
AQIA\14252 Ops \*\*\* 09/22/22  
\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 446880.6, 3760419.5, 207.0, 207.0, 2.0);	( 446886.3, 3760422.3, 207.0, 207.0, 2.0);
( 446909.2, 3760429.0, 207.0, 207.0, 2.0);	( 446932.4, 3760438.0, 207.3, 207.3, 2.0);
( 446953.6, 3760447.2, 207.4, 207.4, 2.0);	( 446975.6, 3760454.9, 207.9, 207.9, 2.0);
( 446990.2, 3760460.5, 208.0, 208.0, 2.0);	( 447027.1, 3760473.2, 208.0, 208.0, 2.0);
( 447050.9, 3760483.6, 208.4, 208.4, 2.0);	( 447070.3, 3760490.6, 209.0, 209.0, 2.0);
( 447089.8, 3760497.4, 209.0, 209.0, 2.0);	( 447109.3, 3760505.8, 208.9, 208.9, 2.0);
( 447130.0, 3760512.9, 208.9, 208.9, 2.0);	( 447151.3, 3760520.7, 209.0, 209.0, 2.0);
( 447193.4, 3760535.7, 208.6, 208.6, 2.0);	( 447230.8, 3760550.4, 208.1, 208.1, 2.0);
( 447252.1, 3760557.7, 208.0, 208.0, 2.0);	( 447273.7, 3760565.5, 208.0, 208.0, 2.0);
( 447292.7, 3760572.8, 208.0, 208.0, 2.0);	( 447339.1, 3760589.1, 208.0, 208.0, 2.0);
( 447365.4, 3760597.9, 208.0, 208.0, 2.0);	( 447401.6, 3760610.9, 208.1, 208.1, 2.0);
( 447434.1, 3760622.3, 208.0, 208.0, 2.0);	( 447468.0, 3760634.8, 208.0, 208.0, 2.0);
( 447497.5, 3760645.0, 208.3, 208.3, 2.0);	( 447521.4, 3760652.6, 208.5, 208.5, 2.0);
( 447547.0, 3760662.6, 208.9, 208.9, 2.0);	( 447578.8, 3760675.1, 209.0, 209.0, 2.0);
( 447648.3, 3760700.8, 209.0, 209.0, 2.0);	( 447679.0, 3760712.0, 209.0, 209.0, 2.0);
( 447705.1, 3760721.8, 209.0, 209.0, 2.0);	( 447666.0, 3760779.6, 209.8, 209.8, 2.0);
( 447647.4, 3760831.4, 210.0, 210.0, 2.0);	( 447648.7, 3760893.4, 210.6, 210.6, 2.0);
( 447649.4, 3760953.0, 211.0, 211.0, 2.0);	( 447648.7, 3760987.3, 211.7, 211.7, 2.0);
( 447649.0, 3761070.7, 212.5, 212.5, 2.0);	( 447649.2, 3761155.1, 213.0, 213.0, 2.0);
( 447577.5, 3761210.6, 213.1, 213.1, 2.0);	( 447650.0, 3761221.8, 214.0, 214.0, 2.0);
( 446484.6, 3761227.3, 212.0, 212.0, 2.0);	( 446553.2, 3761230.1, 212.6, 212.6, 2.0);
( 446513.5, 3761230.1, 212.0, 212.0, 2.0);	( 446297.9, 3761173.0, 210.0, 210.0, 2.0);
( 446296.6, 3761131.3, 209.9, 209.9, 2.0);	( 446296.6, 3761111.8, 209.7, 209.7, 2.0);
( 446296.8, 3761092.8, 209.2, 209.2, 2.0);	( 446295.8, 3761072.8, 209.0, 209.0, 2.0);
( 446296.6, 3761056.1, 209.0, 209.0, 2.0);	( 446296.3, 3761037.7, 208.4, 208.4, 2.0);
( 446296.3, 3761019.4, 208.0, 208.0, 2.0);	( 446295.3, 3761001.3, 208.0, 208.0, 2.0);
( 446295.5, 3760982.3, 207.5, 207.5, 2.0);	( 446295.5, 3760963.7, 207.0, 207.0, 2.0);
( 446294.6, 3760945.4, 207.0, 207.0, 2.0);	( 446295.3, 3760926.4, 207.0, 207.0, 2.0);
( 446295.0, 3760909.8, 207.0, 207.0, 2.0);	( 446294.0, 3760894.8, 207.0, 207.0, 2.0);



\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL 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

Upper air station no.: 3190

Name: UNKNOWN

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	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		

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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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*** AERMOD - VERSION 22112 ***    *** C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29
AQIA\14252 Ops ***                09/22/22

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*** AERMET - VERSION 16216 ***
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\*\*\* 12:14:38

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*** MODELOPTs:  RegDFAULT CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
SOURCE GROUP: ALL ***

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INCLUDING SOURCE(S):  VOL1      , VOL2      ,
VOL3      , VOL4      , VOL5      ,
VOL6      , VOL7      , VOL8      , VOL9      , VOL10     ,
VOL11     , VOL12     , VOL13     ,
VOL14     , VOL15     , VOL16     , VOL17     , VOL18     ,
VOL19     , VOL20     , VOL21     ,
VOL22     , VOL23     , VOL24     , VOL25     , VOL26     ,
VOL27     , VOL28     , . . .

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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	(YYMMDDHH)	X-COORD (M)	Y-COORD
446880.58	3760419.47	0.66410m	(13010324)	446886.26	
3760422.30	0.68267m	(13010324)			
446909.21	3760429.01	0.72433m	(13010324)	446932.42	
3760438.03	0.76059m	(13010324)			
446953.64	3760447.19	0.79918m	(13010324)	446975.65	
3760454.95	0.83848m	(13010324)			
446990.22	3760460.49	0.86428m	(13010324)	447027.12	
3760473.16	0.89221m	(13010324)			
447050.87	3760483.61	0.92126m	(13010324)	447070.35	
3760490.58	0.94159m	(13010324)			
447089.83	3760497.39	0.95197m	(13010324)	447109.31	
3760505.78	0.94980m	(13010324)			
447130.05	3760512.91	0.92001m	(13010324)	447151.27	
3760520.67	0.89634m	(13010324)			
447193.40	3760535.71	0.86668m	(13010324)	447230.77	
3760550.44	0.83609m	(13010324)			
447252.15	3760557.73	0.81957m	(13010324)	447273.69	
3760565.49	0.81092m	(13010324)			
447292.69	3760572.77	0.80664m	(13010324)	447339.09	
3760589.08	0.79339m	(13010324)			
447365.38	3760597.95	0.79118m	(13010324)	447401.65	
3760610.94	0.78865m	(13010324)			

447434.11	3760622.34	0.78221m	(13010324)	447468.00
3760634.85	0.77948c	(14012124)		
447497.46	3760644.99	0.75282c	(14012124)	447521.37
3760652.59	0.71543	(14110424)		
447547.02	3760662.56	0.69717	(14110424)	447578.85
3760675.07	0.67810c	(13112024)		
447648.27	3760700.75	0.59822c	(13112024)	447678.99
3760711.99	0.55260c	(13112024)		
447705.12	3760721.81	0.51625c	(13112024)	447665.99
3760779.58	0.67720c	(13112024)		
447647.36	3760831.38	0.79577c	(13112024)	447648.66
3760893.43	0.85427c	(13112024)		
447649.41	3760953.05	0.91424	(13020624)	447648.66
3760987.33	0.89375	(13020624)		
447648.95	3761070.72	0.85450	(12120224)	447649.16
3761155.12	0.86872	(12120224)		
447577.48	3761210.58	0.74509	(12120224)	447650.04
3761221.76	0.67859	(12120224)		
446484.62	3761227.34	0.55839	(12120624)	446553.20
3761230.07	0.59114	(12120624)		
446513.45	3761230.07	0.56507	(12120624)	446297.94
3761172.96	0.65997	(12122024)		
446296.64	3761131.30	0.84264	(12122024)	446296.64
3761111.82	0.84454	(12122024)		
446296.80	3761092.81	0.86093	(12122024)	446295.84
3761072.85	0.92433	(12122024)		
446296.64	3761056.07	0.99064	(12122024)	446296.32
3761037.69	0.99960	(12122024)		
446296.28	3761019.42	0.96852	(12020624)	446295.35
3761001.35	0.92718	(12020624)		
446295.54	3760982.34	0.92041	(12020624)	446295.54
3760963.71	0.94794	(12020624)		
446294.61	3760945.44	0.96284	(12020624)	446295.35
3760926.44	0.95885	(12020624)		
446294.98	3760909.85	0.94133	(12020624)	446294.05
3760894.76	0.94212	(12020624)		
446294.42	3760880.78	0.96715	(12020624)	446294.61
3760867.55	0.98515	(12020624)		
446294.61	3760853.58	0.97019	(12020624)	446294.79
3760835.32	0.88786	(12020624)		
446294.23	3760806.25	0.71838	(16122724)	446391.69
3760794.13	0.89610m	(13010324)		
446312.31	3760780.16	0.64352	(14120224)	446292.56
3760779.60	0.59163	(16122724)		
446269.45	3760780.35	0.56158	(16122724)	446411.66
3760789.09	0.84623m	(13010324)		
446496.51	3760770.27	0.79091m	(13010324)	446584.98
3760778.00	0.89572m	(13010324)		
446615.93	3760779.55	0.91587m	(13010324)	446705.94
3760782.13	0.98580m	(13010324)		
446782.80	3760775.68	1.01072c	(12122924)	446784.09
3760707.08	0.85372m	(13010324)		
446784.60	3760693.41	0.83633m	(13010324)	446791.57
3760568.06	0.72782	(12020624)		
446786.66	3760636.15	0.77134m	(13010324)	446793.89
3760530.92	0.68819m	(13010324)		
446792.60	3760439.36	0.55299	(15011524)	446796.58
3760367.99	0.44442	(15011524)		

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29

AQIA\14252 Ops \*\*\* 09/22/22

\*\*\* AERMET - VERSION 16216 \*\*\*

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12:14:38

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL4 , VOL5 ,  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF PM<sub>10</sub> IN  
MICROGRAMS/M<sup>3</sup> \*\*

X-COORD (M) (M)	Y-COORD (M) CONC	(YYMMDDHH)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
446708.26 (15011524)	3760360.35		0.36586			

\*\*\* AERMOD - VERSION 22112 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29  
AQIA\14252 Ops \*\*\* 09/22/22  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 12:14:38

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 24-HR RESULTS \*\*\*

\*\* CONC OF PM<sub>10</sub> IN  
MICROGRAMS/M<sup>3</sup> \*\*

GROUP ID	AVERAGE CONC	DATE	RECEPTOR	NETWORK
ZELEV, ZHILL, ZFLAG)	OF TYPE GRID-ID	(YYMMDDHH)	(XR, YR,	
ALL HIGH 1ST HIGH VALUE IS	1.01072c	ON 12122924:	AT ( 446782.80,	3760775.68,
209.00, 209.00, 2.00)	DC			

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

\*\*\* AERMOD - VERSION 22112 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29  
AQIA\14252 Ops \*\*\* 09/22/22  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 12:14:38

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- 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 224 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 224 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*



\*\*  
\*\*\*\*\*  
\*\*  
\*\* AERMOD Input Produced by:  
\*\* AERMOD View Ver. 11.0.0  
\*\* Lakes Environmental Software Inc.  
\*\* Date: 9/22/2022  
\*\* File: C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29 AQIA\14252 Ops PM25\14252 Ops  
PM25.ADI  
\*\*

\*\*\*\*\*  
\*\*  
\*\*  
\*\*\*\*\*  
\*\* AERMOD Control Pathway  
\*\*\*\*\*  
\*\*  
\*\*

CO STARTING  
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29 AQIA\14252 Ops  
MODELOPT DFAULT CONC  
AVERTIME 24  
URBANOPT 2035210  
POLLUTID PM\_2.5  
FLAGPOLE 2.00  
RUNORNOT RUN  
ERRORFIL "14252 Ops PM25.err"

CO FINISHED  
\*\*  
\*\*\*\*\*  
\*\* AERMOD Source Pathway  
\*\*\*\*\*  
\*\*

SO STARTING  
\*\* Source Location \*\*

\*\* Source ID - Type - X Coord. - Y Coord. \*\*

LOCATION	VOL	VOLUME	X Coord.	Y Coord.
LOCATION VOL1	VOLUME	446353.525	3761131.686	210.000
LOCATION VOL2	VOLUME	446446.125	3761131.042	210.490
LOCATION VOL3	VOLUME	446539.533	3761130.447	211.160
LOCATION VOL4	VOLUME	446633.040	3761129.753	212.700
LOCATION VOL5	VOLUME	446726.282	3761130.182	213.760
LOCATION VOL6	VOLUME	446765.912	3761130.249	214.410
LOCATION VOL7	VOLUME	446765.912	3761036.279	213.290
LOCATION VOL8	VOLUME	446671.941	3761036.279	211.830
LOCATION VOL9	VOLUME	446577.377	3761036.279	210.730
LOCATION VOL10	VOLUME	446482.812	3761036.279	209.630
LOCATION VOL11	VOLUME	446389.436	3761038.063	208.600
LOCATION VOL12	VOLUME	446353.751	3760945.877	207.050
LOCATION VOL13	VOLUME	446446.532	3760945.282	208.070
LOCATION VOL14	VOLUME	446541.692	3760943.498	209.100
LOCATION VOL15	VOLUME	446633.283	3760942.903	210.100
LOCATION VOL16	VOLUME	446726.658	3760943.498	210.240
LOCATION VOL17	VOLUME	446755.206	3760943.498	210.770
LOCATION VOL18	VOLUME	446748.664	3760849.528	210.000
LOCATION VOL19	VOLUME	446655.883	3760850.122	209.000
LOCATION VOL20	VOLUME	446563.103	3760850.122	208.020
LOCATION VOL21	VOLUME	446470.322	3760860.233	207.480
LOCATION VOL22	VOLUME	446354.346	3761039.252	208.430
LOCATION VOL23	VOLUME	446376.946	3760860.828	207.000
LOCATION VOL24	VOLUME	446353.751	3760857.854	207.000
LOCATION VOL25	VOLUME	446885.787	3761133.683	216.000
LOCATION VOL26	VOLUME	446980.128	3761132.999	216.000
LOCATION VOL27	VOLUME	447072.419	3761132.316	216.000
LOCATION VOL28	VOLUME	447165.393	3761130.948	214.900
LOCATION VOL29	VOLUME	447166.104	3761038.359	214.000

LOCATION VOL30	VOLUME	447072.257	3761040.335	214.000
LOCATION VOL31	VOLUME	446979.399	3761039.347	214.440
LOCATION VOL32	VOLUME	446885.553	3761040.335	214.470
LOCATION VOL33	VOLUME	446886.540	3760946.983	213.100
LOCATION VOL34	VOLUME	446979.893	3760946.983	213.000
LOCATION VOL35	VOLUME	447073.739	3760948.464	213.090
LOCATION VOL36	VOLUME	447168.080	3760946.489	213.000
LOCATION VOL37	VOLUME	447169.561	3760852.148	212.130
LOCATION VOL38	VOLUME	447076.209	3760854.618	213.210
LOCATION VOL39	VOLUME	446979.893	3760854.618	213.010
LOCATION VOL40	VOLUME	446888.516	3760854.124	210.510
LOCATION VOL41	VOLUME	446886.540	3760779.541	210.000
LOCATION VOL42	VOLUME	446980.881	3760778.553	211.450
LOCATION VOL43	VOLUME	447074.233	3760778.059	210.000
LOCATION VOL44	VOLUME	447167.586	3760778.553	210.740
LOCATION VOL45	VOLUME	447261.542	3761130.609	213.790
LOCATION VOL46	VOLUME	447354.654	3761130.611	213.000
LOCATION VOL47	VOLUME	447448.792	3761131.192	212.500
LOCATION VOL48	VOLUME	447542.931	3761129.449	212.880
LOCATION VOL49	VOLUME	447566.175	3761130.030	213.000
LOCATION VOL50	VOLUME	447566.175	3761036.472	212.000
LOCATION VOL51	VOLUME	447473.199	3761037.634	212.000
LOCATION VOL52	VOLUME	447380.222	3761037.053	212.000
LOCATION VOL53	VOLUME	447286.664	3761035.891	213.000
LOCATION VOL54	VOLUME	447260.515	3761035.310	213.000
LOCATION VOL55	VOLUME	447262.258	3760942.333	212.000
LOCATION VOL56	VOLUME	447354.654	3760943.496	211.240
LOCATION VOL57	VOLUME	447447.630	3760945.239	211.000
LOCATION VOL58	VOLUME	447539.445	3760944.077	211.000
LOCATION VOL59	VOLUME	447561.527	3760944.077	211.000
LOCATION VOL60	VOLUME	447551.648	3760851.100	210.000
LOCATION VOL61	VOLUME	447456.928	3760852.262	210.000
LOCATION VOL62	VOLUME	447362.208	3760851.100	210.360
LOCATION VOL63	VOLUME	447269.812	3760849.938	211.040
LOCATION VOL64	VOLUME	447263.420	3760755.799	210.000
LOCATION VOL65	VOLUME	447356.397	3760756.380	210.000
LOCATION VOL66	VOLUME	447450.536	3760756.961	209.310
LOCATION VOL67	VOLUME	447546.418	3760758.704	209.000
LOCATION VOL68	VOLUME	447264.582	3760669.214	209.100
LOCATION VOL69	VOLUME	447358.721	3760702.918	209.080
LOCATION VOL70	VOLUME	447453.441	3760726.163	209.000
LOCATION VOL71	VOLUME	446884.540	3760685.485	210.000
LOCATION VOL72	VOLUME	446978.679	3760685.485	209.010
LOCATION VOL73	VOLUME	447072.237	3760684.904	210.000
LOCATION VOL74	VOLUME	447167.538	3760685.485	210.000
LOCATION VOL75	VOLUME	447169.281	3760618.658	209.280
LOCATION VOL76	VOLUME	447073.980	3760592.509	209.930
LOCATION VOL77	VOLUME	446979.260	3760591.928	209.510
LOCATION VOL78	VOLUME	446885.121	3760590.184	207.000
LOCATION VOL79	VOLUME	446881.054	3760504.181	207.000
LOCATION VOL80	VOLUME	446976.355	3760537.885	208.650
LOCATION VOL81	VOLUME	447071.656	3760573.332	209.830

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.0002935751	5.000	21.684	1.400
SRCPARAM VOL2	0.0002935751	5.000	21.684	1.400
SRCPARAM VOL3	0.0002935751	5.000	21.684	1.400
SRCPARAM VOL4	0.0002935751	5.000	21.684	1.400
SRCPARAM VOL5	0.0002935751	5.000	21.684	1.400
SRCPARAM VOL6	0.0002935751	5.000	21.684	1.400
SRCPARAM VOL7	0.0002935751	5.000	21.684	1.400
SRCPARAM VOL8	0.0002935751	5.000	21.684	1.400
SRCPARAM VOL9	0.0002935751	5.000	21.684	1.400
SRCPARAM VOL10	0.0002935751	5.000	21.684	1.400
SRCPARAM VOL11	0.0002935751	5.000	21.684	1.400
SRCPARAM VOL12	0.0002935751	5.000	21.684	1.400
SRCPARAM VOL13	0.0002935751	5.000	21.684	1.400



```

SRCPARAM VOL80          0.0002935751    5.000    21.684    1.400
SRCPARAM VOL81          0.0002935751    5.000    21.684    1.400
URBANSRC ALL
SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
  INCLUDED "14252 Ops PM25.rou"
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
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 24 1ST
** Auto-Generated Plotfiles
  PLOTFILE 24 ALL 1ST "14252 OPS PM25.AD\24H1GALL.PLT" 31
  SUMMFILE "14252 Ops PM25.sum"
OU FINISHED
**
*****
** Project Parameters
*****
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    World Geodetic System 1984
** DTMRGN   Global Definition
** UNITS    m
** ZONE     11
** ZONEINX  0
**

```

```
** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.0.0
** Lakes Environmental Software Inc.
** Date: 9/22/2022
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29 AQIA\14252 Ops PM25\14252 Ops
PM25.ADI
**
```

```
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
```

```
CO STARTING
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29 AQIA\14252 Ops
MODELOPT DFAULT CONC
AVERTIME 24
URBANOPT 2035210
POLLUTID PM_2.5
FLAGPOLE 2.00
RUNORNOT RUN
ERRORFIL "14252 Ops PM25.err"
```

```
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
```

```
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
```

LOCATION	VOL	VOLUME	X Coord.	Y Coord.	Z Coord.
LOCATION VOL1		446353.525	3761131.686		210.000
LOCATION VOL2		446446.125	3761131.042		210.490
LOCATION VOL3		446539.533	3761130.447		211.160
LOCATION VOL4		446633.040	3761129.753		212.700
LOCATION VOL5		446726.282	3761130.182		213.760
LOCATION VOL6		446765.912	3761130.249		214.410
LOCATION VOL7		446765.912	3761036.279		213.290
LOCATION VOL8		446671.941	3761036.279		211.830
LOCATION VOL9		446577.377	3761036.279		210.730
LOCATION VOL10		446482.812	3761036.279		209.630
LOCATION VOL11		446389.436	3761038.063		208.600
LOCATION VOL12		446353.751	3760945.877		207.050
LOCATION VOL13		446446.532	3760945.282		208.070
LOCATION VOL14		446541.692	3760943.498		209.100
LOCATION VOL15		446633.283	3760942.903		210.100
LOCATION VOL16		446726.658	3760943.498		210.240
LOCATION VOL17		446755.206	3760943.498		210.770
LOCATION VOL18		446748.664	3760849.528		210.000
LOCATION VOL19		446655.883	3760850.122		209.000
LOCATION VOL20		446563.103	3760850.122		208.020
LOCATION VOL21		446470.322	3760860.233		207.480
LOCATION VOL22		446354.346	3761039.252		208.430
LOCATION VOL23		446376.946	3760860.828		207.000
LOCATION VOL24		446353.751	3760857.854		207.000
LOCATION VOL25		446885.787	3761133.683		216.000
LOCATION VOL26		446980.128	3761132.999		216.000
LOCATION VOL27		447072.419	3761132.316		216.000
LOCATION VOL28		447165.393	3761130.948		214.900

LOCATION VOL29	VOLUME	447166.104	3761038.359	214.000
LOCATION VOL30	VOLUME	447072.257	3761040.335	214.000
LOCATION VOL31	VOLUME	446979.399	3761039.347	214.440
LOCATION VOL32	VOLUME	446885.553	3761040.335	214.470
LOCATION VOL33	VOLUME	446886.540	3760946.983	213.100
LOCATION VOL34	VOLUME	446979.893	3760946.983	213.000
LOCATION VOL35	VOLUME	447073.739	3760948.464	213.090
LOCATION VOL36	VOLUME	447168.080	3760946.489	213.000
LOCATION VOL37	VOLUME	447169.561	3760852.148	212.130
LOCATION VOL38	VOLUME	447076.209	3760854.618	213.210
LOCATION VOL39	VOLUME	446979.893	3760854.618	213.010
LOCATION VOL40	VOLUME	446888.516	3760854.124	210.510
LOCATION VOL41	VOLUME	446886.540	3760779.541	210.000
LOCATION VOL42	VOLUME	446980.881	3760778.553	211.450
LOCATION VOL43	VOLUME	447074.233	3760778.059	210.000
LOCATION VOL44	VOLUME	447167.586	3760778.553	210.740
LOCATION VOL45	VOLUME	447261.542	3761130.609	213.790
LOCATION VOL46	VOLUME	447354.654	3761130.611	213.000
LOCATION VOL47	VOLUME	447448.792	3761131.192	212.500
LOCATION VOL48	VOLUME	447542.931	3761129.449	212.880
LOCATION VOL49	VOLUME	447566.175	3761130.030	213.000
LOCATION VOL50	VOLUME	447566.175	3761036.472	212.000
LOCATION VOL51	VOLUME	447473.199	3761037.634	212.000
LOCATION VOL52	VOLUME	447380.222	3761037.053	212.000
LOCATION VOL53	VOLUME	447286.664	3761035.891	213.000
LOCATION VOL54	VOLUME	447260.515	3761035.310	213.000
LOCATION VOL55	VOLUME	447262.258	3760942.333	212.000
LOCATION VOL56	VOLUME	447354.654	3760943.496	211.240
LOCATION VOL57	VOLUME	447447.630	3760945.239	211.000
LOCATION VOL58	VOLUME	447539.445	3760944.077	211.000
LOCATION VOL59	VOLUME	447561.527	3760944.077	211.000
LOCATION VOL60	VOLUME	447551.648	3760851.100	210.000
LOCATION VOL61	VOLUME	447456.928	3760852.262	210.000
LOCATION VOL62	VOLUME	447362.208	3760851.100	210.360
LOCATION VOL63	VOLUME	447269.812	3760849.938	211.040
LOCATION VOL64	VOLUME	447263.420	3760755.799	210.000
LOCATION VOL65	VOLUME	447356.397	3760756.380	210.000
LOCATION VOL66	VOLUME	447450.536	3760756.961	209.310
LOCATION VOL67	VOLUME	447546.418	3760758.704	209.000
LOCATION VOL68	VOLUME	447264.582	3760669.214	209.100
LOCATION VOL69	VOLUME	447358.721	3760702.918	209.080
LOCATION VOL70	VOLUME	447453.441	3760726.163	209.000
LOCATION VOL71	VOLUME	446884.540	3760685.485	210.000
LOCATION VOL72	VOLUME	446978.679	3760685.485	209.010
LOCATION VOL73	VOLUME	447072.237	3760684.904	210.000
LOCATION VOL74	VOLUME	447167.538	3760685.485	210.000
LOCATION VOL75	VOLUME	447169.281	3760618.658	209.280
LOCATION VOL76	VOLUME	447073.980	3760592.509	209.930
LOCATION VOL77	VOLUME	446979.260	3760591.928	209.510
LOCATION VOL78	VOLUME	446885.121	3760590.184	207.000
LOCATION VOL79	VOLUME	446881.054	3760504.181	207.000
LOCATION VOL80	VOLUME	446976.355	3760537.885	208.650
LOCATION VOL81	VOLUME	447071.656	3760573.332	209.830

\*\* Source Parameters \*\*

SRCPARAM VOL1	0.0002935751	5.000	21.684	1.400
SRCPARAM VOL2	0.0002935751	5.000	21.684	1.400
SRCPARAM VOL3	0.0002935751	5.000	21.684	1.400
SRCPARAM VOL4	0.0002935751	5.000	21.684	1.400
SRCPARAM VOL5	0.0002935751	5.000	21.684	1.400
SRCPARAM VOL6	0.0002935751	5.000	21.684	1.400
SRCPARAM VOL7	0.0002935751	5.000	21.684	1.400
SRCPARAM VOL8	0.0002935751	5.000	21.684	1.400
SRCPARAM VOL9	0.0002935751	5.000	21.684	1.400
SRCPARAM VOL10	0.0002935751	5.000	21.684	1.400
SRCPARAM VOL11	0.0002935751	5.000	21.684	1.400
SRCPARAM VOL12	0.0002935751	5.000	21.684	1.400



SRCPARAM VOL79 0.0002935751 5.000 21.684 1.400  
SRCPARAM VOL80 0.0002935751 5.000 21.684 1.400  
SRCPARAM VOL81 0.0002935751 5.000 21.684 1.400

URBANSRC ALL  
SRCGROUP ALL

SO FINISHED

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\*\*\*\*\*  
\*\* AERMOD Receptor Pathway  
\*\*\*\*\*

\*\*  
\*\*  
RE STARTING  
INCLUDED "14252 Ops PM25.rou"  
RE FINISHED

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\*\*\*\*\*  
\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*

\*\*  
\*\*  
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 24 1ST  
\*\* Auto-Generated Plotfiles  
PLOTFILE 24 ALL 1ST "14252 OPS PM25.AD\24H1GALL.PLT" 31  
SUMMFILE "14252 Ops PM25.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 224 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 224 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*



\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.
- \* Model Uses NO DRY DEPLETION. DDPLETE = F
- \* Model Uses NO WET DEPLETION. WETDPLT = F
- \* Stack-tip Downwash.
- \* Model Accounts for ELEVated Terrain Effects.
- \* Use Calms Processing Routine.
- \* Use Missing Data Processing Routine.
- \* No Exponential Decay.
- \* Model Uses URBAN Dispersion Algorithm for the SBL for 81 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2035210.0 ; Urban Roughness Length = 1.000 m
- \* Urban Roughness Length of 1.0 Meter Used.
- \* 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 Accepts FLAGPOLE Receptor . Heights.
- \* The User Specified a Pollutant Type of: PM\_2.5

\*\*Model Calculates 1 Short Term Average(s) of: 24-HR

\*\*This Run Includes: 81 Source(s); 1 Source Group(s); and 81 Receptor(s)

- with: 0 POINT(s), including
- 0 POINTCAP(s) and 0 POINTHOR(s)
- and: 81 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 a total of 0 line(s)
- and: 0 SWPOINT source(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 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



VOL18	0	0.29358E-03	446748.7	3760849.5	210.0	5.00	21.68	1.40
YES								
VOL19	0	0.29358E-03	446655.9	3760850.1	209.0	5.00	21.68	1.40
YES								
VOL20	0	0.29358E-03	446563.1	3760850.1	208.0	5.00	21.68	1.40
YES								
VOL21	0	0.29358E-03	446470.3	3760860.2	207.5	5.00	21.68	1.40
YES								
VOL22	0	0.29358E-03	446354.3	3761039.3	208.4	5.00	21.68	1.40
YES								
VOL23	0	0.29358E-03	446376.9	3760860.8	207.0	5.00	21.68	1.40
YES								
VOL24	0	0.29358E-03	446353.8	3760857.9	207.0	5.00	21.68	1.40
YES								
VOL25	0	0.29358E-03	446885.8	3761133.7	216.0	5.00	21.68	1.40
YES								
VOL26	0	0.29358E-03	446980.1	3761133.0	216.0	5.00	21.68	1.40
YES								
VOL27	0	0.29358E-03	447072.4	3761132.3	216.0	5.00	21.68	1.40
YES								
VOL28	0	0.29358E-03	447165.4	3761130.9	214.9	5.00	21.68	1.40
YES								
VOL29	0	0.29358E-03	447166.1	3761038.4	214.0	5.00	21.68	1.40
YES								
VOL30	0	0.29358E-03	447072.3	3761040.3	214.0	5.00	21.68	1.40
YES								
VOL31	0	0.29358E-03	446979.4	3761039.3	214.4	5.00	21.68	1.40
YES								
VOL32	0	0.29358E-03	446885.6	3761040.3	214.5	5.00	21.68	1.40
YES								
VOL33	0	0.29358E-03	446886.5	3760947.0	213.1	5.00	21.68	1.40
YES								
VOL34	0	0.29358E-03	446979.9	3760947.0	213.0	5.00	21.68	1.40
YES								
VOL35	0	0.29358E-03	447073.7	3760948.5	213.1	5.00	21.68	1.40
YES								
VOL36	0	0.29358E-03	447168.1	3760946.5	213.0	5.00	21.68	1.40
YES								
VOL37	0	0.29358E-03	447169.6	3760852.1	212.1	5.00	21.68	1.40
YES								
VOL38	0	0.29358E-03	447076.2	3760854.6	213.2	5.00	21.68	1.40
YES								
VOL39	0	0.29358E-03	446979.9	3760854.6	213.0	5.00	21.68	1.40
YES								
VOL40	0	0.29358E-03	446888.5	3760854.1	210.5	5.00	21.68	1.40
YES								

```

*** AERMOD - VERSION 22112 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29
AQIA\14252 Ops ***                09/22/22
*** AERMET - VERSION 16216 ***
***                                                                    ***
                                                                    12:18:12

```

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	SCALAR VARY	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
-----									
-----									

VOL41 YES	0	0.29358E-03	446886.5	3760779.5	210.0	5.00	21.68	1.40
VOL42 YES	0	0.29358E-03	446980.9	3760778.6	211.5	5.00	21.68	1.40
VOL43 YES	0	0.29358E-03	447074.2	3760778.1	210.0	5.00	21.68	1.40
VOL44 YES	0	0.29358E-03	447167.6	3760778.6	210.7	5.00	21.68	1.40
VOL45 YES	0	0.29358E-03	447261.5	3761130.6	213.8	5.00	21.68	1.40
VOL46 YES	0	0.29358E-03	447354.7	3761130.6	213.0	5.00	21.68	1.40
VOL47 YES	0	0.29358E-03	447448.8	3761131.2	212.5	5.00	21.68	1.40
VOL48 YES	0	0.29358E-03	447542.9	3761129.4	212.9	5.00	21.68	1.40
VOL49 YES	0	0.29358E-03	447566.2	3761130.0	213.0	5.00	21.68	1.40
VOL50 YES	0	0.29358E-03	447566.2	3761036.5	212.0	5.00	21.68	1.40
VOL51 YES	0	0.29358E-03	447473.2	3761037.6	212.0	5.00	21.68	1.40
VOL52 YES	0	0.29358E-03	447380.2	3761037.1	212.0	5.00	21.68	1.40
VOL53 YES	0	0.29358E-03	447286.7	3761035.9	213.0	5.00	21.68	1.40
VOL54 YES	0	0.29358E-03	447260.5	3761035.3	213.0	5.00	21.68	1.40
VOL55 YES	0	0.29358E-03	447262.3	3760942.3	212.0	5.00	21.68	1.40
VOL56 YES	0	0.29358E-03	447354.7	3760943.5	211.2	5.00	21.68	1.40
VOL57 YES	0	0.29358E-03	447447.6	3760945.2	211.0	5.00	21.68	1.40
VOL58 YES	0	0.29358E-03	447539.4	3760944.1	211.0	5.00	21.68	1.40
VOL59 YES	0	0.29358E-03	447561.5	3760944.1	211.0	5.00	21.68	1.40
VOL60 YES	0	0.29358E-03	447551.6	3760851.1	210.0	5.00	21.68	1.40
VOL61 YES	0	0.29358E-03	447456.9	3760852.3	210.0	5.00	21.68	1.40
VOL62 YES	0	0.29358E-03	447362.2	3760851.1	210.4	5.00	21.68	1.40
VOL63 YES	0	0.29358E-03	447269.8	3760849.9	211.0	5.00	21.68	1.40
VOL64 YES	0	0.29358E-03	447263.4	3760755.8	210.0	5.00	21.68	1.40
VOL65 YES	0	0.29358E-03	447356.4	3760756.4	210.0	5.00	21.68	1.40
VOL66 YES	0	0.29358E-03	447450.5	3760757.0	209.3	5.00	21.68	1.40
VOL67 YES	0	0.29358E-03	447546.4	3760758.7	209.0	5.00	21.68	1.40
VOL68 YES	0	0.29358E-03	447264.6	3760669.2	209.1	5.00	21.68	1.40
VOL69 YES	0	0.29358E-03	447358.7	3760702.9	209.1	5.00	21.68	1.40
VOL70 YES	0	0.29358E-03	447453.4	3760726.2	209.0	5.00	21.68	1.40
VOL71 YES	0	0.29358E-03	446884.5	3760685.5	210.0	5.00	21.68	1.40
VOL72 YES	0	0.29358E-03	446978.7	3760685.5	209.0	5.00	21.68	1.40
VOL73 YES	0	0.29358E-03	447072.2	3760684.9	210.0	5.00	21.68	1.40

VOL74	0	0.29358E-03	447167.5	3760685.5	210.0	5.00	21.68	1.40
YES								
VOL75	0	0.29358E-03	447169.3	3760618.7	209.3	5.00	21.68	1.40
YES								
VOL76	0	0.29358E-03	447074.0	3760592.5	209.9	5.00	21.68	1.40
YES								
VOL77	0	0.29358E-03	446979.3	3760591.9	209.5	5.00	21.68	1.40
YES								
VOL78	0	0.29358E-03	446885.1	3760590.2	207.0	5.00	21.68	1.40
YES								
VOL79	0	0.29358E-03	446881.1	3760504.2	207.0	5.00	21.68	1.40
YES								
VOL80	0	0.29358E-03	446976.4	3760537.9	208.7	5.00	21.68	1.40
YES								

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29  
AQIA\14252 Ops \*\*\* 09/22/22  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 12:18:12

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE	NUMBER URBAN	EMISSION PART.	RATE (GRAMS/SEC)	X	Y	BASE ELEV.	RELEASE HEIGHT	INIT. SY	INIT. SZ
SOURCE ID (METERS)	SCALAR	VARY CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	

VOL81	0	0.29358E-03	447071.7	3760573.3	209.8	5.00	21.68	1.40
YES								

\*\*\* AERMOD - VERSION 22112 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29  
AQIA\14252 Ops \*\*\* 09/22/22  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 12:18:12

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID	SOURCE IDs
ALL VOL7	VOL1, VOL2, VOL3, VOL4, VOL5, VOL6, VOL7, VOL8
	VOL9, VOL10, VOL11, VOL12, VOL13, VOL14, VOL15, VOL16
	VOL17, VOL18, VOL19, VOL20, VOL21, VOL22, VOL23, VOL24
	VOL25, VOL26, VOL27, VOL28, VOL29, VOL30, VOL31, VOL32
	VOL33, VOL34, VOL35, VOL36, VOL37, VOL38, VOL39, VOL40

VOL41 , VOL42 , VOL43 , VOL44 , VOL45 , VOL46 ,  
VOL47 , VOL48 ,  
VOL49 , VOL50 , VOL51 , VOL52 , VOL53 , VOL54 ,  
VOL55 , VOL56 ,  
VOL57 , VOL58 , VOL59 , VOL60 , VOL61 , VOL62 ,  
VOL63 , VOL64 ,  
VOL65 , VOL66 , VOL67 , VOL68 , VOL69 , VOL70 ,  
VOL71 , VOL72 ,  
VOL73 , VOL74 , VOL75 , VOL76 , VOL77 , VOL78 ,  
VOL79 , VOL80 ,

VOL81 ,

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AQIA\14252 Ops \*\*\* 09/22/22  
\*\*\* AERMET - VERSION 16216 \*\*\*  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

URBAN ID	URBAN POP	SOURCE IDs						
-----	-----	-----						
	2035210.	VOL1	, VOL2	, VOL3	, VOL4	, VOL5	,	
	VOL6	, VOL7	,					
VOL8	,							
	VOL9	, VOL10	, VOL11	, VOL12	, VOL13	, VOL14	,	
	VOL15	, VOL16	,					
	VOL17	, VOL18	, VOL19	, VOL20	, VOL21	, VOL22	,	
	VOL23	, VOL24	,					
	VOL25	, VOL26	, VOL27	, VOL28	, VOL29	, VOL30	,	
	VOL31	, VOL32	,					
	VOL33	, VOL34	, VOL35	, VOL36	, VOL37	, VOL38	,	
	VOL39	, VOL40	,					
	VOL41	, VOL42	, VOL43	, VOL44	, VOL45	, VOL46	,	
	VOL47	, VOL48	,					
	VOL49	, VOL50	, VOL51	, VOL52	, VOL53	, VOL54	,	
	VOL55	, VOL56	,					
	VOL57	, VOL58	, VOL59	, VOL60	, VOL61	, VOL62	,	
	VOL63	, VOL64	,					
	VOL65	, VOL66	, VOL67	, VOL68	, VOL69	, VOL70	,	
	VOL71	, VOL72	,					
	VOL73	, VOL74	, VOL75	, VOL76	, VOL77	, VOL78	,	
	VOL79	, VOL80	,					
	VOL81	,						

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AQIA\14252 Ops \*\*\* 09/22/22  
\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

( 446880.6, 3760419.5, 207.0, 207.0, 2.0);	( 446886.3, 3760422.3, 207.0, 207.0, 2.0);
( 446909.2, 3760429.0, 207.0, 207.0, 2.0);	( 446932.4, 3760438.0, 207.3, 207.3, 2.0);
( 446953.6, 3760447.2, 207.4, 207.4, 2.0);	( 446975.6, 3760454.9, 207.9, 207.9, 2.0);
( 446990.2, 3760460.5, 208.0, 208.0, 2.0);	( 447027.1, 3760473.2, 208.0, 208.0, 2.0);
( 447050.9, 3760483.6, 208.4, 208.4, 2.0);	( 447070.3, 3760490.6, 209.0, 209.0, 2.0);
( 447089.8, 3760497.4, 209.0, 209.0, 2.0);	( 447109.3, 3760505.8, 208.9, 208.9, 2.0);
( 447130.0, 3760512.9, 208.9, 208.9, 2.0);	( 447151.3, 3760520.7, 209.0, 209.0, 2.0);
( 447193.4, 3760535.7, 208.6, 208.6, 2.0);	( 447230.8, 3760550.4, 208.1, 208.1, 2.0);
( 447252.1, 3760557.7, 208.0, 208.0, 2.0);	( 447273.7, 3760565.5, 208.0, 208.0, 2.0);
( 447292.7, 3760572.8, 208.0, 208.0, 2.0);	( 447339.1, 3760589.1, 208.0, 208.0, 2.0);
( 447365.4, 3760597.9, 208.0, 208.0, 2.0);	( 447401.6, 3760610.9, 208.1, 208.1, 2.0);
( 447434.1, 3760622.3, 208.0, 208.0, 2.0);	( 447468.0, 3760634.8, 208.0, 208.0, 2.0);
( 447497.5, 3760645.0, 208.3, 208.3, 2.0);	( 447521.4, 3760652.6, 208.5, 208.5, 2.0);
( 447547.0, 3760662.6, 208.9, 208.9, 2.0);	( 447578.8, 3760675.1, 209.0, 209.0, 2.0);
( 447648.3, 3760700.8, 209.0, 209.0, 2.0);	( 447679.0, 3760712.0, 209.0, 209.0, 2.0);
( 447705.1, 3760721.8, 209.0, 209.0, 2.0);	( 447666.0, 3760779.6, 209.8, 209.8, 2.0);
( 447647.4, 3760831.4, 210.0, 210.0, 2.0);	( 447648.7, 3760893.4, 210.6, 210.6, 2.0);
( 447649.4, 3760953.0, 211.0, 211.0, 2.0);	( 447648.7, 3760987.3, 211.7, 211.7, 2.0);
( 447649.0, 3761070.7, 212.5, 212.5, 2.0);	( 447649.2, 3761155.1, 213.0, 213.0, 2.0);
( 447577.5, 3761210.6, 213.1, 213.1, 2.0);	( 447650.0, 3761221.8, 214.0, 214.0, 2.0);
( 446484.6, 3761227.3, 212.0, 212.0, 2.0);	( 446553.2, 3761230.1, 212.6, 212.6, 2.0);
( 446513.5, 3761230.1, 212.0, 212.0, 2.0);	( 446297.9, 3761173.0, 210.0, 210.0, 2.0);
( 446296.6, 3761131.3, 209.9, 209.9, 2.0);	( 446296.6, 3761111.8, 209.7, 209.7, 2.0);
( 446296.8, 3761092.8, 209.2, 209.2, 2.0);	( 446295.8, 3761072.8, 209.0, 209.0, 2.0);
( 446296.6, 3761056.1, 209.0, 209.0, 2.0);	( 446296.3, 3761037.7, 208.4, 208.4, 2.0);
( 446296.3, 3761019.4, 208.0, 208.0, 2.0);	( 446295.3, 3761001.3, 208.0, 208.0, 2.0);
( 446295.5, 3760982.3, 207.5, 207.5, 2.0);	( 446295.5, 3760963.7, 207.0, 207.0, 2.0);
( 446294.6, 3760945.4, 207.0, 207.0, 2.0);	( 446295.3, 3760926.4, 207.0, 207.0, 2.0);
( 446295.0, 3760909.8, 207.0, 207.0, 2.0);	( 446294.0, 3760894.8, 207.0, 207.0, 2.0);





\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL 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

Upper air station no.: 3190

Name: UNKNOWN

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	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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AQIA\14252 Ops ***                09/22/22

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*** AERMET - VERSION 16216 ***
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*** MODELOPTs:  RegDFAULT CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
SOURCE GROUP: ALL ***

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INCLUDING SOURCE(S):  VOL1      , VOL2      ,
VOL3      , VOL4      , VOL5      ,
VOL6      , VOL7      , VOL8      , VOL9      , VOL10     ,
VOL11     , VOL12     , VOL13     ,
VOL14     , VOL15     , VOL16     , VOL17     , VOL18     ,
VOL19     , VOL20     , VOL21     ,
VOL22     , VOL23     , VOL24     , VOL25     , VOL26     ,
VOL27     , VOL28     , . . .

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\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

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** CONC OF PM_2.5 IN
MICROGRAMS/M**3 **

```

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
446880.58	3760419.47	0.26632m	(13010324)	446886.26	
3760422.30	0.27377m	(13010324)			
446909.21	3760429.01	0.29048m	(13010324)	446932.42	
3760438.03	0.30502m	(13010324)			
446953.64	3760447.19	0.32050m	(13010324)	446975.65	
3760454.95	0.33626m	(13010324)			
446990.22	3760460.49	0.34661m	(13010324)	447027.12	
3760473.16	0.35781m	(13010324)			
447050.87	3760483.61	0.36946m	(13010324)	447070.35	
3760490.58	0.37761m	(13010324)			
447089.83	3760497.39	0.38177m	(13010324)	447109.31	
3760505.78	0.38090m	(13010324)			
447130.05	3760512.91	0.36895m	(13010324)	447151.27	
3760520.67	0.35946m	(13010324)			
447193.40	3760535.71	0.34757m	(13010324)	447230.77	
3760550.44	0.33530m	(13010324)			
447252.15	3760557.73	0.32867m	(13010324)	447273.69	
3760565.49	0.32520m	(13010324)			
447292.69	3760572.77	0.32349m	(13010324)	447339.09	
3760589.08	0.31818m	(13010324)			
447365.38	3760597.95	0.31729m	(13010324)	447401.65	
3760610.94	0.31627m	(13010324)			

447434.11	3760622.34	0.31369m	(13010324)	447468.00
3760634.85	0.31260c	(14012124)		
447497.46	3760644.99	0.30190c	(14012124)	447521.37
3760652.59	0.28691	(14110424)		
447547.02	3760662.56	0.27959	(14110424)	447578.85
3760675.07	0.27194c	(13112024)		
447648.27	3760700.75	0.23990c	(13112024)	447678.99
3760711.99	0.22161c	(13112024)		
447705.12	3760721.81	0.20703c	(13112024)	447665.99
3760779.58	0.27158c	(13112024)		
447647.36	3760831.38	0.31913c	(13112024)	447648.66
3760893.43	0.34259c	(13112024)		
447649.41	3760953.05	0.36664	(13020624)	447648.66
3760987.33	0.35842	(13020624)		
447648.95	3761070.72	0.34268	(12120224)	447649.16
3761155.12	0.34839	(12120224)		
447577.48	3761210.58	0.29881	(12120224)	447650.04
3761221.76	0.27214	(12120224)		
446484.62	3761227.34	0.22393	(12120624)	446553.20
3761230.07	0.23706	(12120624)		
446513.45	3761230.07	0.22661	(12120624)	446297.94
3761172.96	0.26467	(12122024)		
446296.64	3761131.30	0.33793	(12122024)	446296.64
3761111.82	0.33869	(12122024)		
446296.80	3761092.81	0.34526	(12122024)	446295.84
3761072.85	0.37069	(12122024)		
446296.64	3761056.07	0.39728	(12122024)	446296.32
3761037.69	0.40087	(12122024)		
446296.28	3761019.42	0.38841	(12020624)	446295.35
3761001.35	0.37183	(12020624)		
446295.54	3760982.34	0.36912	(12020624)	446295.54
3760963.71	0.38015	(12020624)		
446294.61	3760945.44	0.38613	(12020624)	446295.35
3760926.44	0.38453	(12020624)		
446294.98	3760909.85	0.37750	(12020624)	446294.05
3760894.76	0.37782	(12020624)		
446294.42	3760880.78	0.38786	(12020624)	446294.61
3760867.55	0.39508	(12020624)		
446294.61	3760853.58	0.38908	(12020624)	446294.79
3760835.32	0.35606	(12020624)		
446294.23	3760806.25	0.28810	(16122724)	446391.69
3760794.13	0.35936m	(13010324)		
446312.31	3760780.16	0.25807	(14120224)	446292.56
3760779.60	0.23726	(16122724)		
446269.45	3760780.35	0.22521	(16122724)	446411.66
3760789.09	0.33937m	(13010324)		
446496.51	3760770.27	0.31718m	(13010324)	446584.98
3760778.00	0.35921m	(13010324)		
446615.93	3760779.55	0.36729m	(13010324)	446705.94
3760782.13	0.39534m	(13010324)		
446782.80	3760775.68	0.40533c	(12122924)	446784.09
3760707.08	0.34237m	(13010324)		
446784.60	3760693.41	0.33540m	(13010324)	446791.57
3760568.06	0.29188	(12020624)		
446786.66	3760636.15	0.30933m	(13010324)	446793.89
3760530.92	0.27599m	(13010324)		
446792.60	3760439.36	0.22177	(15011524)	446796.58
3760367.99	0.17823	(15011524)		

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AQIA\14252 Ops \*\*\* 09/22/22

\*\*\* AERMET - VERSION 16216 \*\*\*

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\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR  
SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): VOL1 , VOL2 ,  
VOL3 , VOL4 , VOL5 ,  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN  
MICROGRAMS/M<sup>3</sup> \*\*

X-COORD (M) (M)	Y-COORD (M) CONC	(YYMMDDHH)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD
446708.26 (15011524)	3760360.35		0.14672			

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AQIA\14252 Ops \*\*\* 09/22/22  
\*\*\* AERMET - VERSION 16216 \*\*\*  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 24-HR RESULTS \*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN  
MICROGRAMS/M<sup>3</sup> \*\*

GROUP ID	AVERAGE CONC	DATE	RECEPTOR	NETWORK
ZELEV, ZHILL, ZFLAG)	OF TYPE GRID-ID	(YYMMDDHH)	(XR, YR,	
ALL HIGH 1ST HIGH VALUE IS	0.40533c	ON 12122924:	AT ( 446782.80,	3760775.68,
209.00, 209.00, 2.00)	DC			

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

\*\*\* AERMOD - VERSION 22112 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\14252 Subarea 29  
AQIA\14252 Ops \*\*\* 09/22/22  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 12:18:12

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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- 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 224 MEOpen: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 224 MEOpen: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*

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