APPENDIX B

Air Quality Impact Analysis

Cherry Avenue Industrial Building

AIR QUALITY IMPACT ANALYSIS

CITY OF LONG BEACH

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MARCH 13, 2024 - FINAL

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LIST OF ABBREVIATED TERMS

%	Percent
°F	Degrees Fahrenheit
(1)	Reference
µg/m^3	Microgram per Cubic Meter
1992 CO Plan	*1992 Federal Attainment Plan for Carbon Monoxide*
1993 CEQA Handbook	*SCAQMD's CEQA Air Quality Handbook (1993)*
2016-2040 RTP/SCS	*2016-2040 Regional Transportation Plan/Sustainable Communities Strategy*
AB 2595	California Clean Air Act
AERMOD	American Meteorological Society/Environmental Protection Agency Regulatory Model
AQIA	Air Quality Impact Analysis
AQMP	Air Quality Management Plan
BACT	Best Available Control Technology
BC	Black Carbon
BNAP	Banning
Brief	*Brief of Amicus Curiae by the SCAQMD in the Friant Ranch Case*
C_2Cl_4	Perchloroethylene
C_4H_6	1,3-butadiene
C_6H_6	Benzene
C_2H_3Cl	Vinyl Chloride
C_2H_4O	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
CEQA Guidelines	*2019 CEQA Statute and Guidelines*
CH_2O	Formaldehyde

City	City of Long Beach
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
EV	Electric Vehicle
Final EIR	Renaissance Specific Plan Final Environmental Impact Report
g/L	Grams per Liter
GHG	Greenhouse Gas
GVWR	Gross Vehicle Weight Rating
H_2S	Hydrogen Sulfide
HDT	Heavy-Duty Trucks
HHDT	Heavy-Heavy-Duty Trucks
HI	Hazard Index
hp	Horsepower
HPLV	High-Pressure-Low-Volume
ISR	Indirect Source Review
lbs	Pounds
lbs/day	Pounds Per Day
LDA	Light Duty Auto
LDT1/LDT2	Light-Duty Trucks
LED	Light-Emitting Diode
LHDT1/LHDT2	Light-Heavy-Duty Trucks
LST	Localized Significance Threshold
LST Methodology	*Final Localized Significance Threshold Methodology*
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
MWELO	California Department of Water Resources' Model Water Efficient
N_2	Nitrogen
N_2O	Nitrous Oxide
NAAQS	National Ambient Air Quality Standards
NO	Nitric Oxide
NO_2	Nitrogen Dioxide
NO_X	Nitrogen Oxides
O_2	Oxygen
O_3	Ozone
O_2 Deficiency	Chronic Hypoxemia
OBD-II	On-Board Diagnostic
ODC	Ozone Depleting Compounds
Pb	Lead
PM	Particulate Matter
PM_{10}	Particulate Matter 10 microns in diameter or less
$PM_{2.5}$	Particulate Matter 2.5 microns in diameter or less
POLA	Port of Los Angeles
POLB	Port of Long Beach
ppm	Parts Per Million
Project	Cherry Avenue Industrial Building
RECLAIM	Regional Clean Air Incentives Market
RFG-2	Reformulated Gasoline Regulation
RIVTAM	Riverside County Transportation Analysis Model
ROG	Reactive Organic Gases
SB	Senate Bill
SCAB	South Coast Air Basin
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
sf	Square Feet
SHGC	Solar Heat Gain Coefficient
SIPs	State Implementation Plans
SO_2	Sulfur Dioxide
SO_4	Sulfates
SO_X	Sulfur Oxides

SOI	Sphere of Influence
SRA	Source Receptor Area
TAC	Toxic Air Contaminant
TDM	Transportation Demand Management
Title 24	California Building Code
TITLE I	Non-Attainment Provisions
TITLE II	Mobile Sources Provisions
TRUs	Transportation Refrigeration Units
UFP	Ultrafine Particles
URBEMIS	URBan EMISsions
VMT	Vehicle Miles Traveled
VOC	Volatile Organic Compounds
vph	Vehicles Per Hour
WAIRE Points	Warehouse Actions and Investments to Reduce Emissions Points
WPCO	Warehouse Points Compliance Obligation

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EXECUTIVE SUMMARY

ES.1 SUMMARY OF FINDINGS

The results of this *Cherry Avenue Industrial Building 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 *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	*Less Than Significant*	*n/a*
Localized Construction Emissions	3.6	*Less Than Significant*	*n/a*
Regional Operational Emissions	3.5	*Less Than Significant*	*n/a*
Localized Operational Emissions	3.6	*Less Than Significant*	*n/a*
CO "Hot Spot" Analysis	3.7	*Less Than Significant*	*n/a*
Air Quality Management Plan	3.8	*Less Than Significant*	*n/a*
Sensitive Receptors	3.9	*Less Than Significant*	*n/a*
Odors	3.10	*Less Than Significant*	*n/a*
Cumulative Impacts	3.11	*Less Than Significant*	*n/a*

ES.2 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 that are currently applicable to this Project are described below.

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.

Odor Emissions. All uses shall be operated in a manner such that no offensive odor is perceptible at or beyond the property line of that use.

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.

Dust Control, Operations. 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 SCAQMD.

SCAQMD RULE 1113

This rule serves to limit the 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.

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).

SCAQMD RULE 1401

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 United States (U.S.) Bureau of Mines.

SCAQMD RULE 2305

The SCAQMD adopted Rule 2305, the Warehouse Indirect Source Rule, on May 7, 2021. Owners and operators associated with warehouses 100,000 square feet (sf) or larger are required to directly reduce nitrogen oxides (NO_X) and particulate matter emissions, or to otherwise facilitate emission and exposure reductions of these pollutants in nearby communities. The rule imposes a "Warehouse Points Compliance Obligation" (WPCO) on warehouse operators. Operators satisfy the WPCO by accumulating "Warehouse Actions and Investments to Reduce Emissions Points" (WAIRE Points) in a given 12-month period. WAIRE Points are awarded by implementing measures to reduce emissions listed on the WAIRE Menu, or by implementing a custom WAIRE Plan approved by the SCAQMD.

Although the Project would comply with Rule 2305, it should be noted that there is no way to quantify these reductions in the California Emissions Estimator Model (CalEEMod). The two most pertinent regulatory requirements that could be modeled, are Rule 403 (Fugitive Dust) (2) and Rule 1113 (Architectural Coatings) (3). Credit for Rule 403 and Rule 1113 have been taken in the analysis.

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1 INTRODUCTION

This report presents the results of the AQIA prepared by Urban Crossroads, Inc., for the proposed Cherry Avenue Industrial Building (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 proposed Project site is in the northern half of the City of Long Beach located at 5910 Cherry Avenue, approximately 650 feet north of the intersection of Cherry Avenue and South Street as shown on Exhibit 1-A. The Project site is bounded by Cherry Avenue to the west and Union Pacific rail lines to the east. Existing industrial development is located to the north and east of the Project site. Commercial development is located to the south and west of the Project site with areas of residential development located just beyond the commercial development to the west.

1.2 PROJECT DESCRIPTION

The proposed Project will include demolition of an existing industrial development facility. The facility is currently underutilized, with only portions of the site occupied by active tenants. The proposed Project would involve the construction of a single 304,344 square foot speculative industrial building as shown on Exhibit 1-B. For the purposes of this assessment, the Project has been evaluated assuming 304,344 sf of manufacturing use. The Project is anticipated to have an Opening Year of 2025. At the time this analysis was prepared, the future tenants of the proposed Project were unknown. Since a variety of industrial uses would be permitted for the speculative industrial building that is being entitled, this analysis evaluates different Tenant Use Options in order to disclose the operational air quality emissions that would result from the range of uses that would be allowed. In total, the following 7 land uses (referred to as Tenant Use Options) are included:

- Tenant Use Option 1: 304,344 sf Manufacturing
- Tenant Use Option 2: 304,344 sf General Light Industrial
- Tenant Use Option 3: 304,344 sf Warehouse
- Tenant Use Option 4: 304,344 sf High-Cube Fulfillment (Non-Sort)
- Tenant Use Option 5: 304,344 sf High-Cube Cold Storage
- Tenant Use Option 6: 76,086 sf Manufacturing and 228,258 sf Warehouse
- Tenant Use Option 7: 76,086 sf Manufacturing and 228,258 sf High-Cube Transload

1.3 BACKGROUND

On April 18, 2023, the Law Office of Jordan R. Sisson prepared a letter appealing the City Planning Commission's Site Plan Review approval of the proposed Project and the analysis previously conducted to support the proposed California Environmental Quality Act (CEQA) Class 32

exemption. The Appeal Letter included comments contesting the Class 32 exemption based on a review of specific technical areas (e.g., transportation, air quality, and noise). The air-related comments were prepared by Soil Water Air Protection Enterprise (SWAPE) based on a review of the July 18, 2022, *Air Quality Impact Analysis* prepared by Urban Crossroads, Inc. for the proposed Project ("2022 AQ Study"). This Cherry Avenue Industrial Building Air Quality Impact Analysis has been revised in response to the Appeal Letter and in support of a new Environmental Impact Report (EIR) for entitlement of the speculative industrial building. In addition, we have prepared a detailed response to each of the Section comments of the Appeal Letter in Appendix 1.1.

The Project is proposing the development of a speculative industrial building. The analysis in the 2022 AQ Study assumed 15% High-Cube Cold Storage Warehouse use (45,596 square feet) and 85% High-Cube Fulfillment (Non-Sort) Warehouse use (258,376 square feet).

The Project has since pivoted to conducting a new EIR for the proposed 304,344 square foot speculative industrial development. As such, the following analysis has been prepared to support the new EIR. Since a variety of industrial uses would be permitted for the speculative industrial building that is being entitled, and to respond to the Appeal Letter, this analysis evaluates seven Tenant Use Options in order to disclose the air quality emissions that would result from the range of uses that would be allowed.

EXHIBIT 1-A: LOCATION MAP

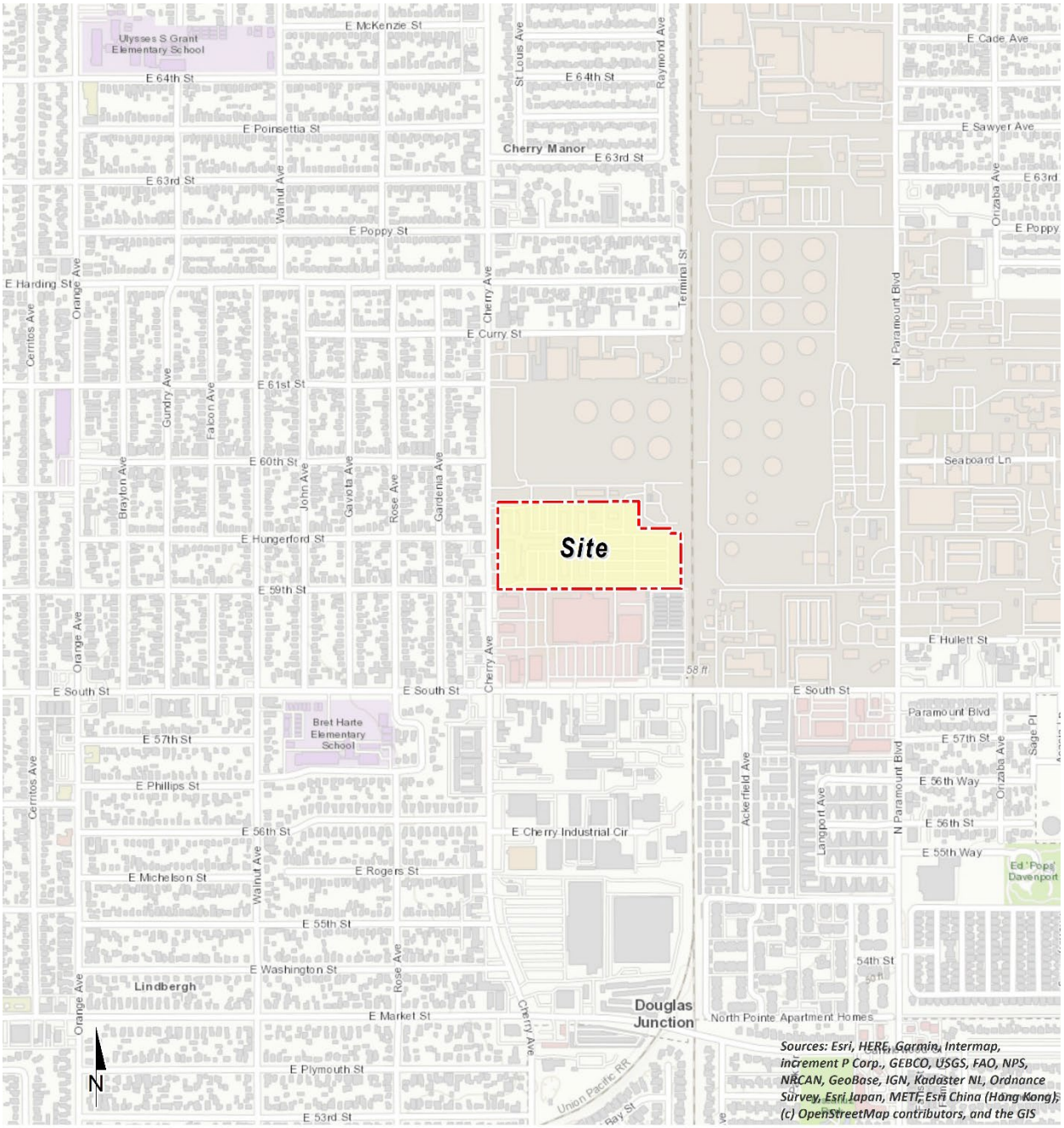
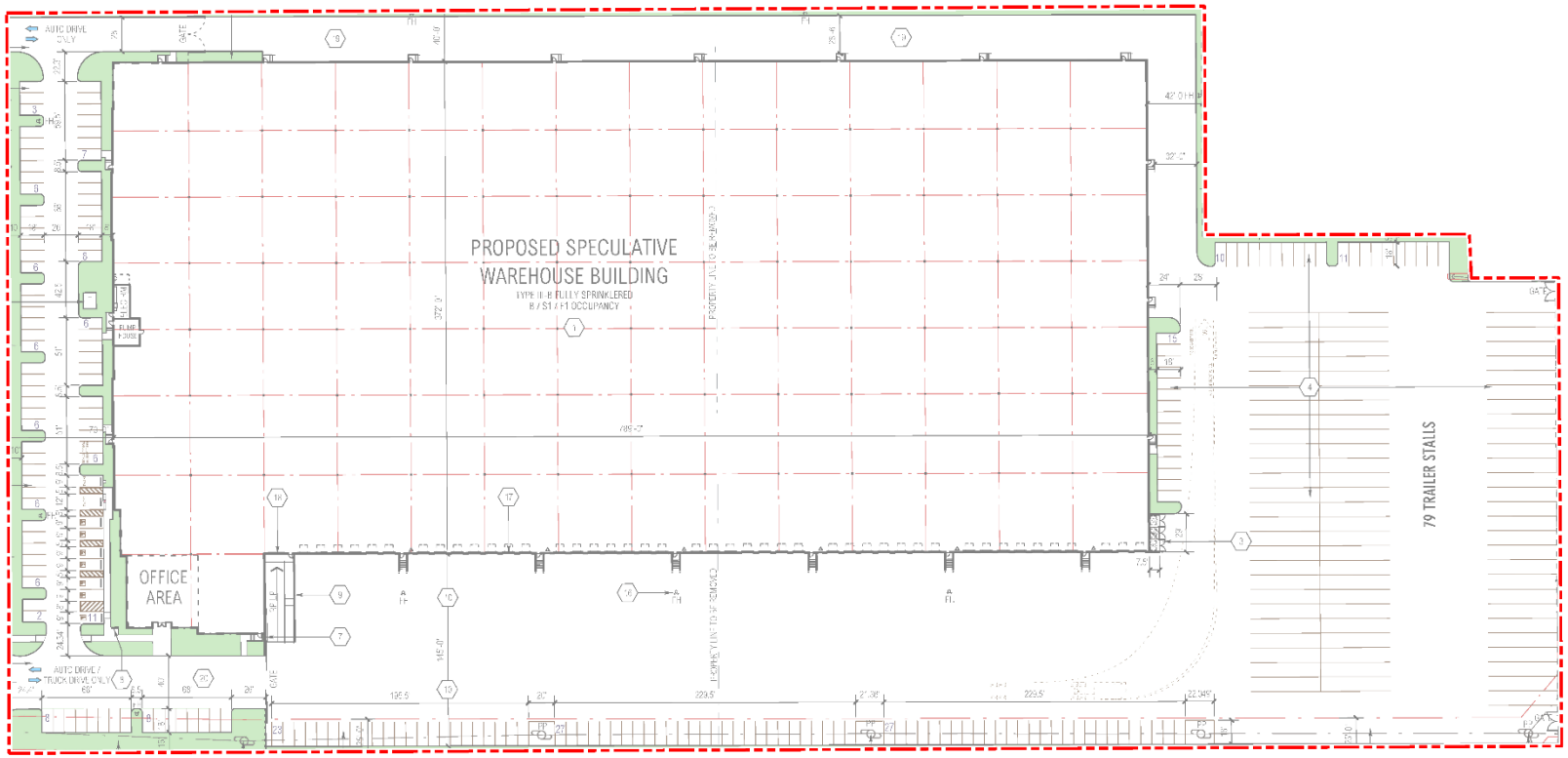


EXHIBIT 1-B: SITE PLAN



LEGEND:

Site Boundary

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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

The Project site is located in the South Coast Air Basin (SCAB) within the jurisdiction of SCAQMD (4). 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 the non-desert 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 the San Diego Air Basin to the south.

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_2) to sulfates (SO_4) 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 nitrogen oxides (NO_X) and carbon monoxide (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 (5):

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_3), 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_2) supply to the heart. Inhaled CO has no direct toxic effect on the lungs but exerts its effect on tissues by interfering with O_2 transport and competing with O_2 to combine with hemoglobin present in the blood to form carboxyhemoglobin (COHb). Hence, conditions with an increased demand for O_2 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_2 deficiency) as seen at high altitudes.
SO_2	SO_2 is a colorless, extremely irritating gas or liquid. It enters the atmosphere as a pollutant	Coal or oil burning power plants and industries,	A few minutes of exposure to low levels of SO_2 can result in airway constriction in some

Criteria Pollutant	Description	Sources	Health Effects
	mainly as a result of burning high sulfur-content fuel oils and coal and from chemical processes occurring at chemical plants and refineries. When SO_2 oxidizes in the atmosphere, it forms SO_4. Collectively, these pollutants are referred to as sulfur oxides (SO_X).	refineries, diesel engines	asthmatics, all of whom are sensitive to its effects. In asthmatics, increase in resistance to air flow, as well as reduction in breathing capacity leading to severe breathing difficulties, are observed after acute exposure to SO_2. In contrast, healthy individuals do not exhibit similar acute responses even after exposure to higher concentrations of SO_2. Animal studies suggest that despite SO_2 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. Some population-based studies indicate that the mortality and morbidity effects associated with fine particles show a similar association with ambient SO_2 levels. In these studies, efforts to separate the effects of SO_2 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.
NO_X	NO_X consist of nitric oxide (NO), nitrogen dioxide (NO_2) and nitrous oxide (N_2O) and are formed when nitrogen (N_2) combines with O_2. Their lifespan in the atmosphere ranges from	Any source that burns fuel such as automobiles, trucks, heavy construction equipment, farming	Population-based studies suggest that an increase in acute respiratory illness, including infections and respiratory symptoms in children (not infants), is

Criteria Pollutant	Description	Sources	Health Effects
	one to seven days for nitric oxide and nitrogen dioxide, to 170 years for nitrous oxide. NO_X is typically created during combustion processes and are major contributors to smog formation and acid deposition. NO_2 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 nitrogen oxide compounds, NO_2 is the most abundant in the atmosphere. As ambient concentrations of NO_2 are related to traffic density, commuters in heavy traffic may be exposed to higher concentrations of NO_2 than those indicated by regional monitoring station.	equipment and residential heating.	associated with long-term exposure to NO_2 at levels found in homes with gas stoves, which are higher than ambient levels found in Southern California. Increase in resistance to air flow and airway contraction is observed after short-term exposure to NO_2 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. In animals, exposure to levels of NO_2 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_3 exposure increases when animals are exposed to a combination of O_3 and NO_2.
O_3	O_3 is a highly reactive and unstable gas that is formed when VOCs and NO_X, both byproducts of internal combustion engine exhaust, undergo slow photochemical reactions in the presence of sunlight. O_3 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.	Formed when reactive organic gases (ROG) and NO_X 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	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_3 effects. Short-term exposure (lasting for a few hours) to O_3 at levels typically observed in Southern California can result in breathing pattern changes, reduction of breathing capacity, increased

Criteria Pollutant	Description	Sources	Health Effects
		storage and pesticides.	susceptibility to infections, inflammation of the lung tissue, and some immunological changes. Elevated O_3 levels are associated with increased school absences. In recent years, a correlation between elevated ambient O_3 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 live in communities with high O_3 levels. O_3 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_3 may be more toxic than exposure to O_3 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.
Particulate Matter	PM_{10}: 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	Sources of PM_{10} include road dust, windblown dust and construction. Also formed from other pollutants (acid rain, NO_X, SO_X, organics). Incomplete combustion of any fuel. $PM_{2.5}$ comes from	A consistent correlation between elevated ambient fine particulate matter (PM_{10} and $PM_{2.5}$) 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

Criteria Pollutant	Description	Sources	Health Effects
	deposited, resulting in adverse health effects. Additionally, it should be noted that PM_{10} is considered a criteria air pollutant. $PM_{2.5}$: A similar air pollutant to PM_{10} 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_4 formed from SO_2 release from power plants and industrial facilities and nitrates that are formed from NO_X 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. $PM_{2.5}$ is a criteria air pollutant.	fuel combustion in motor vehicles, equipment, and industrial sources, residential and agricultural burning. Also formed from reaction of other pollutants (acid rain, NO_X, SO_X, organics).	recent years, some studies have reported an association between long-term exposure to air pollution dominated by fine particles and increased mortality, reduction in lifespan, and an increased mortality from lung cancer. Daily fluctuations in $PM_{2.5}$ 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. 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_{10} and $PM_{2.5}$.
VOC	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_3 to the same extent when exposed to photochemical processes. VOCs often have an odor, and some examples include gasoline, alcohol, and the	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	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.

Criteria Pollutant	Description	Sources	Health Effects
	solvents used in paints. Exceptions to the VOC designation include CO, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate. VOCs are a criteria pollutant since they are a precursor to O_3, which is a criteria pollutant. The terms VOC and ROG (see below) interchangeably.	compounds while you are using them, and, to some degree, when they are stored.	
ROG	Similar to VOC, ROGs are also precursors in forming O_3 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_X react in the presence of sunlight. ROGs are a criteria pollutant since they are a precursor to O_3, which is a criteria pollutant. The terms ROG and VOC (see previous) 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	Metal smelters, resource recovery, leaded gasoline, deterioration of Pb paint.	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. 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

Criteria Pollutant	Description	Sources	Health Effects
	generate a quantifiable amount of Pb emissions.		stored in the bone from early age environmental exposure, and elevated blood Pb levels can occur due to breakdown of bone tissue during 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.
Odor	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 (6).	Odors can come from many sources including animals, human activities, industry, natures, and vehicles.	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.

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. National Ambient Air Quality Standards (NAAQS) and California Ambient Air Quality Standards (CAAQS) currently in effect are shown in Table 2-2 (7).

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 and are 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_3, CO (except 8-hour Lake Tahoe), SO_2 (1 and 24 hour), NO_2, PM_{10}, and $PM_{2.5}$ are not to be exceeded. All others are not to be equaled or exceeded. 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. 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, a State Implementation Plan (SIP) is drafted by CARB. 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 (8).

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

Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards [1]		National Standards [2]		
		Concentration [3]	Method [4]	Primary [3,5]	Secondary [3,6]	Method [7]
Ozone (O_3)[8]	1 Hour	0.09 ppm (180 µg/m^3)	Ultraviolet Photometry	—	Same as Primary Standard	Ultraviolet Photometry
	8 Hour	0.070 ppm (137 µg/m^3)		0.070 ppm (137 µg/m^3)		
Respirable Particulate Matter (PM10)[9]	24 Hour	50 µg/m^3	Gravimetric or Beta Attenuation	150 µg/m^3	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m^3		—		
Fine Particulate Matter (PM2.5)[9]	24 Hour	—	—	35 µg/m^3	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	12 µg/m^3	Gravimetric or Beta Attenuation	12.0 µg/m^3	15 µg/m^3	
Carbon Monoxide (CO)	1 Hour	20 ppm (23 mg/m^3)	Non-Dispersive Infrared Photometry (NDIR)	35 ppm (40 mg/m^3)	—	Non-Dispersive Infrared Photometry (NDIR)
	8 Hour	9.0 ppm (10 mg/m^3)		9 ppm (10 mg/m^3)	—	
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m^3)		—	—	
Nitrogen Dioxide (NO_2)[10]	1 Hour	0.18 ppm (339 µg/m^3)	Gas Phase Chemiluminescence	100 ppb (188 µg/m^3)	—	Gas Phase Chemiluminescence
	Annual Arithmetic Mean	0.030 ppm (57 µg/m^3)		0.053 ppm (100 µg/m^3)	Same as Primary Standard	
Sulfur Dioxide (SO_2)[11]	1 Hour	0.25 ppm (655 µg/m^3)	Ultraviolet Fluorescence	75 ppb (196 µg/m^3)	—	Ultraviolet Flourescence; Spectrophotometry (Pararosaniline Method)
	3 Hour	—		—	0.5 ppm (1300 µg/m^3)	
	24 Hour	0.04 ppm (105 µg/m^3)		0.14 ppm (for certain areas)[11]	—	
	Annual Arithmetic Mean	—		0.030 ppm (for certain areas)[11]	—	
Lead[12,13]	30 Day Average	1.5 µg/m^3	Atomic Absorption	—	—	High Volume Sampler and Atomic Absorption
	Calendar Quarter	—		1.5 µg/m^3 (for certain areas)[12]	Same as Primary Standard	
	Rolling 3-Month Average	—		0.15 µg/m^3		
Visibility Reducing Particles[14]	8 Hour	See footnote 14	Beta Attenuation and Transmittance through Filter Tape	No National Standards		
Sulfates	24 Hour	25 µg/m^3	Ion Chromatography			
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m^3)	Ultraviolet Fluorescence			
Vinyl Chloride[12]	24 Hour	0.01 ppm (26 µg/m^3)	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 $\mu g/m^3$ 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°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 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 $\mu g/m^3$ to 12.0 $\mu g/m^3$. The existing national 24-hour PM2.5 standards (primary and secondary) were retained at 35 $\mu g/m^3$, as was the annual secondary standard of 15 $\mu g/m^3$. The existing 24-hour PM10 standards (primary and secondary) of 150 $\mu g/m^3$ 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_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 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 $\mu g/m^3$ 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_3, particulate matter (PM_{10} and $PM_{2.5}$), NO_2, and SO_2 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 (9). On January 5, 2021, CARB posted the 2020 amendments to the state and national area designations. See Table 2-3 for attainment designations for the SCAB (10). 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_3 – 1-hour standard	Nonattainment	--
O_3 – 8-hour standard	Nonattainment	Nonattainment
PM_{10}	Nonattainment	Attainment
$PM_{2.5}$	Nonattainment	Nonattainment
CO	Attainment	Unclassifiable/Attainment
NO_2	Attainment	Unclassifiable/Attainment
SO_2	Attainment	Unclassifiable/Attainment
Pb[1]	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_3 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 about the air quality conditions. The Project site is located within the South Coastal LA County area (SRA 4). Within SRA 4, the Interstate 710 (I-710) monitoring station which is located 1.69 miles west of the Project site, records air quality data for NO_2 and $PM_{2.5}$. The South Coastal LA County 2 monitoring station is the next nearest station, located 4.71 miles south of the Project site, records air quality data for PM_{10}. The South Coastal LA County 4 monitoring station is the next nearest station, located 4.71 miles south of the Project site, records air quality data for O_3. As the Interstate 710 and South Coastal LA County monitoring stations does not record CO data, the air quality conditions for CO conditions from the South Central LA County monitoring station will be used, located 3.37 northwest of the Project site.

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. Data for O_3, CO, NO_2, PM_{10},

[1] The Federal nonattainment designation for lead is only applicable towards the Los Angeles County portion of the SCAB.

and $PM_{2.5}$ for 2020 through 2022 was obtained from the SCAQMD Air Quality Data Tables (11). Additionally, data for SO_2 has been omitted as attainment is regularly met in the SCAB and few monitoring stations measure SO_2 concentrations.

TABLE 2-4: PROJECT AREA AIR QUALITY MONITORING SUMMARY 2020-2022

Pollutant	Standard	Year		
		2020	2021	2022
O_3				
Maximum Federal 1-Hour Concentration (ppm)		0.105	0.086	0.108
Maximum Federal 8-Hour Concentration (ppm)		0.083	0.064	0.077
Number of Days Exceeding State 1-Hour Standard	> 0.09 ppm	4	0	1
Number of Days Exceeding State/Federal 8-Hour Standard	> 0.070 ppm	4	0	1
CO				
Maximum Federal 1-Hour Concentration	> 35 ppm	4.5	4.3	3.4
Maximum Federal 8-Hour Concentration	> 20 ppm	3.1	3.7	3.0
NO_2				
Maximum Federal 1-Hour Concentration	> 0.100 ppm	0.090	0.092	0.095
Annual Federal Standard Design Value		0.022	0.025	0.025
PM_{10}				
Maximum Federal 24-Hour Concentration ($\mu g/m^3$)	> 150 $\mu g/m^3$	59	48	48
Annual Federal Arithmetic Mean ($\mu g/m^3$)		24.9	22.7	25.5
Number of Days Exceeding Federal 24-Hour Standard	> 150 $\mu g/m^3$	0	0	0
Number of Days Exceeding State 24-Hour Standard	> 50 $\mu g/m^3$	2	0	0
$PM_{2.5}$				
Maximum Federal 24-Hour Concentration ($\mu g/m^3$)	> 35 $\mu g/m^3$	44.0	84.6	39.0
Annual Federal Arithmetic Mean ($\mu g/m^3$)	> 12 $\mu g/m^3$	12.93	13.01	11.91
Number of Days Exceeding Federal 24-Hour Standard	> 35 $\mu g/m^3$	2	7	1

ppm = Parts Per Million
$\mu g/m^3$ = Microgram per Cubic Meter
Source: Data for O_3, CO, NO_2, PM_{10}, and $PM_{2.5}$ 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_3, CO, NO_X, SO_2, PM_{10}, and Pb (12). 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 (13). 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 will 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) (14) (15). 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 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 (16) (12).

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 ROGs, NO_X, CO and PM_{10}. 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: CALGreen is a comprehensive and uniform regulatory code for all residential, commercial, and school buildings that went in effect on August 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. 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 (17). The Project would be required to comply with the applicable standards in place at the time plan check submittals are made. These require, among other items (18):

NONRESIDENTIAL MANDATORY MEASURES

- 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 10 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 for clean air vehicles. In new projects or additions to alterations that add 10 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).

- EV charging stations. New construction shall facilitate the future installation of EV supply equipment. The compliance requires empty raceways for future conduit and documentation that the electrical system has adequate capacity for the future load. The number of spaces to be provided for is contained in Table 5.106. 5.3.3 (5.106.5.3). Additionally, Table 5.106.5.4.1 specifies requirements for the installation of raceway conduit and panel power requirements for medium- and heavy-duty EV supply equipment for warehouses, grocery stores, and retail stores.
- Outdoor light pollution reduction. Outdoor lighting systems shall be designed to meet the backlight, uplight and glare ratings per Table 5.106.8 (5.106.8).
- 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 reuse 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 of 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).
- Outdoor potable water uses 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 project to consume more than 1,000 gallons per day (GPD) (5.303.1.1 and 5.303.1.2).
- Outdoor water uses 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).

2.8.3 APPLICABLE SCAQMD RULES

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.

Dust Control, Operations. 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 SCAQMD.

SCAQMD RULE 1113

This rule serves to limit the VOC content of architectural coatings used on projects in the SCAQMD. This rule applies to any person who supplies, sells, offers for sale, or manufactures any architectural coating for use on projects.

SCAQMD RULE 2305

On May 8, 2021, South Coast AQMD adopted Warehouse Indirect Source Rule 2305, which includes the Warehouse Actions and Investments to Reduce Emissions Program (WAIRE), and Rule 316. Rule 2305 establishes for the first time a regulatory program designed to reduce air pollution (and indirect GHG emissions) from trucks that visit warehouses. Rule 316 establishes a fee system to support the Rule 2305 program on an ongoing basis. Rules 2305 and 316 apply to operators of existing and new warehouses with floor space greater than or equal to 100,000-sf within a single building (i.e., large warehouses). Rules 2305 and 316 require such operators to annually take actions with respect to their warehouses that either reduce emissions regionally and locally or facilitate emission reductions. Specifically, operators must "earn" a specific number of WAIRE Points. Warehouse owners are only required to submit a Warehouse Operations Notification to the SCAQMD.

The number of WAIRE Points required for a specific operator is based on the intensity of operations (i.e., number of truck trips and type of trucks) at each of their warehouses every year.

The required points are known as the WAIRE Points Compliance Obligation (WPCO). The WPCO is calculated based on a 12-month survey of truck trips entering or exiting the site, the truck data is weighted based on the types of trucks, and activity is projected for the next year. Thus, the WAIRE Points pay for the prior year's emissions based on points earned in subsequent years.

WAIRE Points are earned by implementing a menu of items including purchasing/renting/leasing near-zero (NZE) and zero emission (ZE) yard equipment, installing on-site ZE fueling stations, and proving on-site solar PV systems that are intended to offset or reduce warehouse emissions. Operators may also implement custom WAIRE plans for individual facilities, subject to SCAQMD approval; or pay mitigation fees to have the SCAQMD implement measures within the SCAB. Operators that over-comply may transfer excess WAIRE Points earned in one year to a subsequent year or may transfer WAIRE points to another site within their control. WAIRE Points cannot be transferred to other operators and expire after 3 years. Rule 2305 also requires reporting information about facility operations and recordkeeping. Rule 316 is the companion rule to Rule 2305 and establishes the administrative fees that Rule 2305 warehouse owners and operators must pay to support SCAQMD compliance activities.

While the Project proponent may be defined as a warehouse owner and would submit a Warehouse Operation Notice(s), as required, the Project proponent does not intend to be the warehouse operator and has no knowledge of the future operations. Thus, the specific information required by Rule 2305 for calculating the WPCO is unavailable, and the necessary number of points is unknown. Finally, The WAIRE points expire after 3 years and are based on actions of future operators and are thus temporary and cannot be relied upon for CEQA purposes. Therefore, even though the WAIRE program will reduce emissions warehouse activities in the

2.8.5 AQMP

Currently, the NAAQS and CAAQS are exceeded in most parts of the SCAB. In response, the SCAQMD has adopted a series of AQMP to meet the state and federal ambient air quality standards (19). 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. A detailed discussion on the AQMP and Project consistency with the AQMP is provided in Section 3.10.

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.

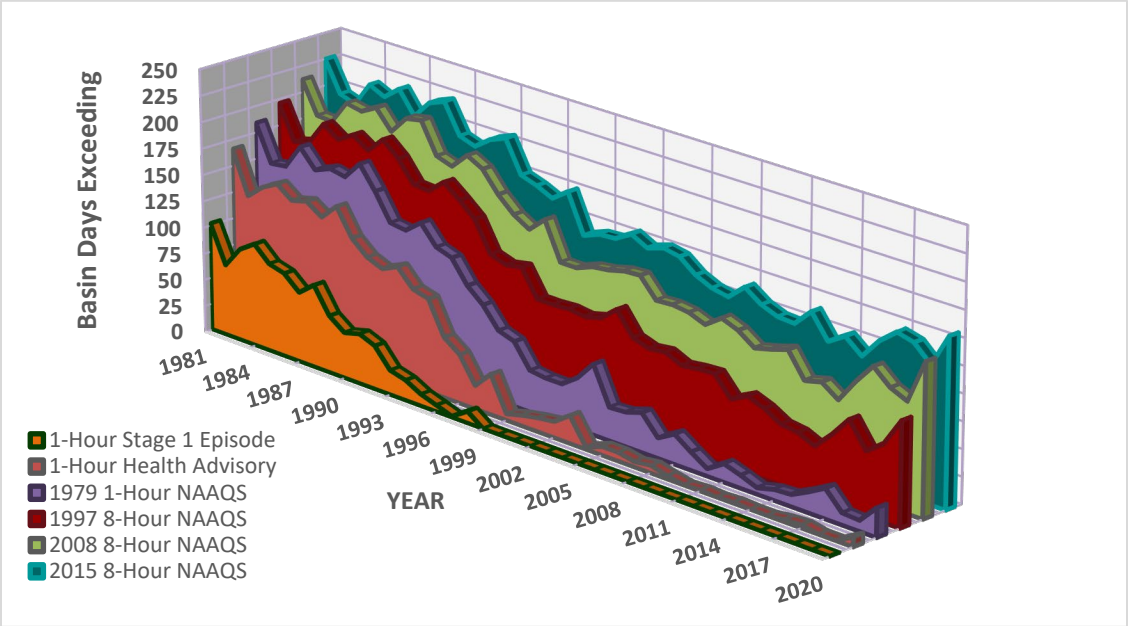
SCAQMD rule development through the 1970s and 1980s resulted in dramatic improvement in SCAB air quality. Nearly all control programs developed through the early 1990s relied on (i) the

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. The 2012 AQMP states, "the remarkable historical improvement in air quality since the 1970's is the direct result of Southern California's comprehensive, multiyear strategy of reducing air pollution from all sources as outlined in its AQMPs," (20).

Emissions of O_3, NO_X, VOC, and CO have been decreasing in the SCAB since 1975 and are projected to continue to decrease through 2020 (21). 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_X 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_X emissions from electric utilities have also decreased due to use of cleaner fuels and renewable energy. O_3 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_3 levels have increased in the past three years due to higher temperatures and stagnant weather conditions. Notwithstanding, O_3 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 (22).

TABLE 2-5: SCAB O_3 TREND

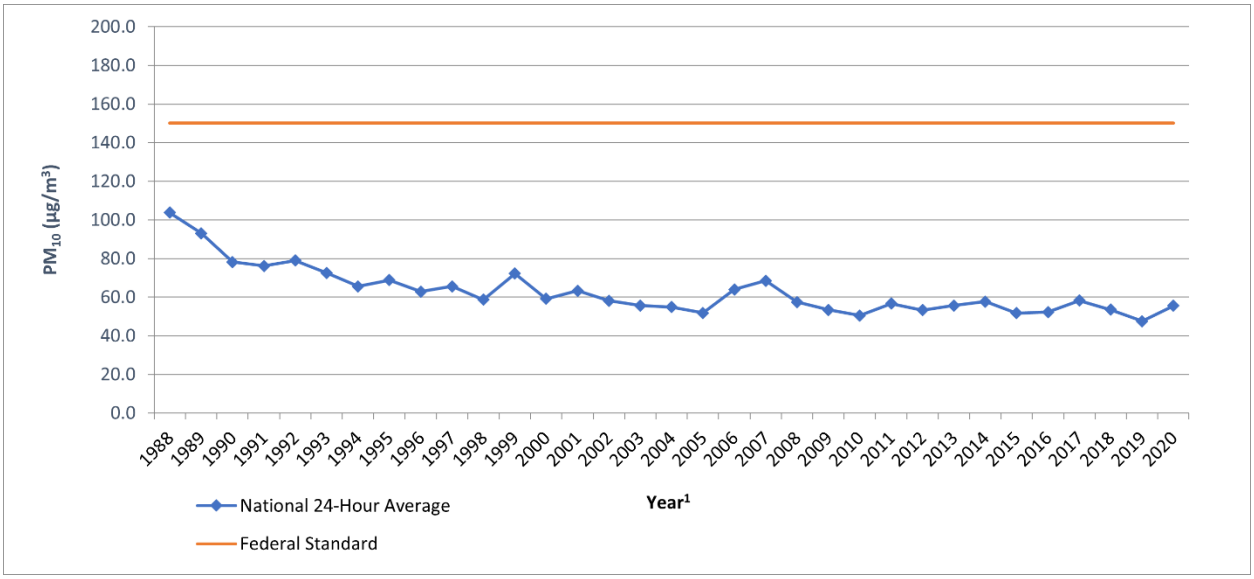


Source: 2020 SCAQMD, Historical O_3 Air Quality Trends (1976-2020)

The overall trends of PM_{10} and $PM_{2.5}$ levels in the air (not emissions) show an overall improvement since 1975. Direct emissions of PM_{10} have remained somewhat constant in the SCAB and direct emissions of $PM_{2.5}$ 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.

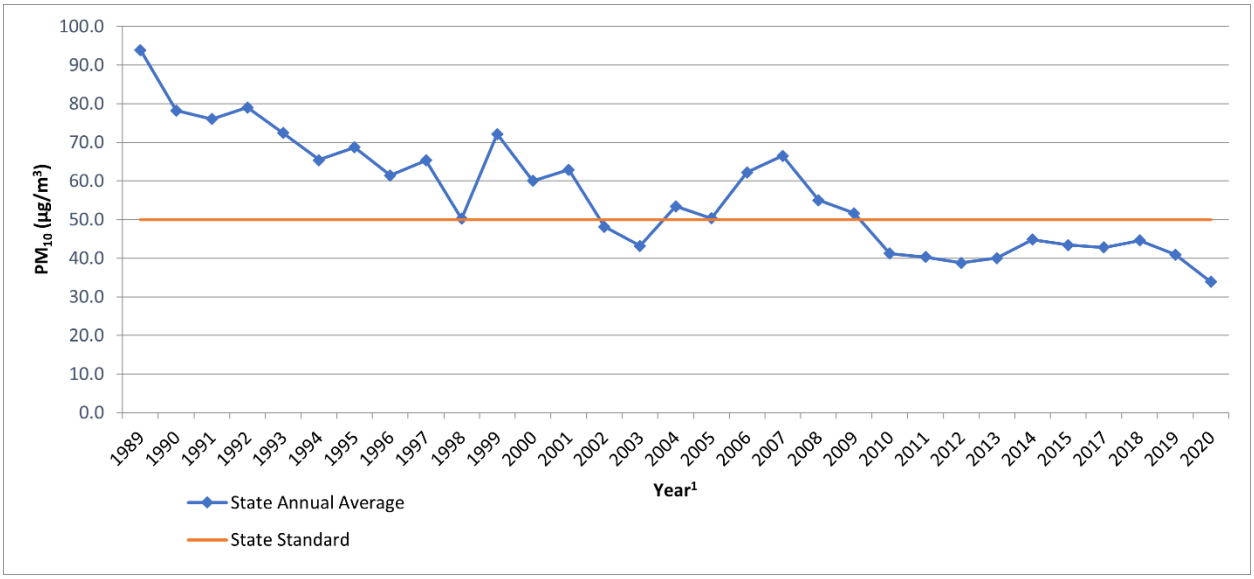
As with other pollutants, the most recent PM_{10} statistics show an overall improvement as illustrated in Tables 2-6 and 2-7. During the period for which data are available, the 24-hour national annual average concentration for PM_{10} decreased by approximately 46%, from 103.7 microgram per cubic meter (µg/m³) in 1988 to 55.5 µg/m³ in 2020 (23). 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_{10}, have decreased by approximately 64%, from 93.9 µg/m³ in 1989 to 33.9 µg/m³ in 2020 (23). 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_{10} standards has also shown an overall drop.

TABLE 2-6: SCAB AVERAGE 24-HOUR CONCENTRATION PM_{10} TREND (BASED ON FEDERAL STANDARD)[1]



Source: 2020 CARB, iADAM: Top Four Summary: PM_{10} 24-Hour Averages (1988-2020)
[1] 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.

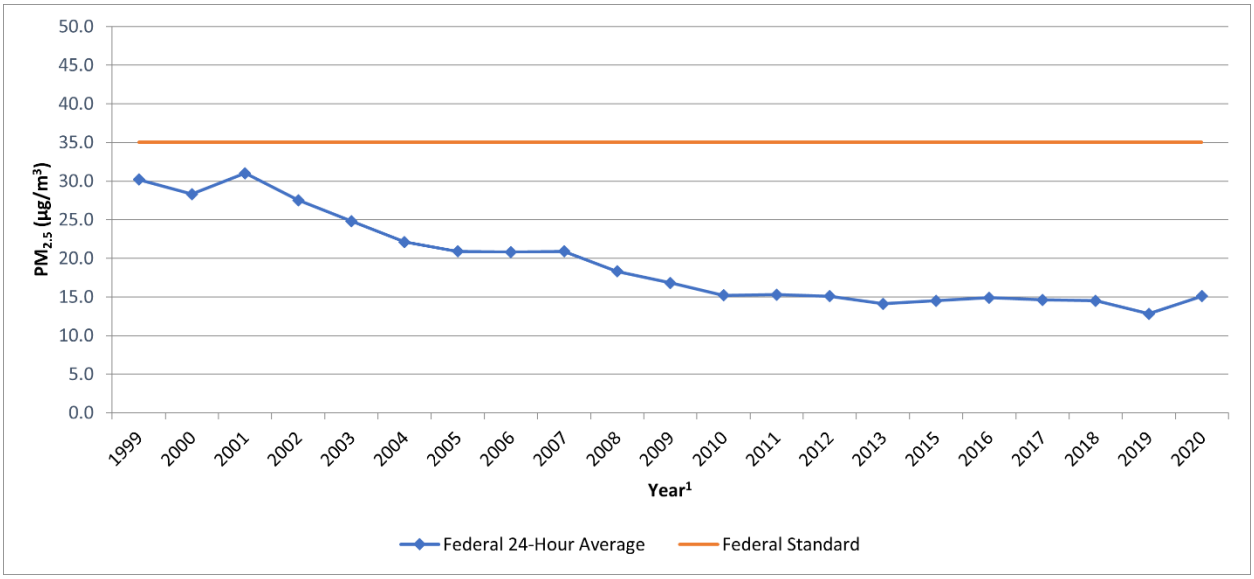
TABLE 2-7: SCAB ANNUAL AVERAGE CONCENTRATION PM_{10} TREND (BASED ON STATE STANDARD)[1]



Source: 2020 CARB, iADAM: Top Four Summary: PM_{10} 24-Hour Averages (1988-2020)
[1] 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.

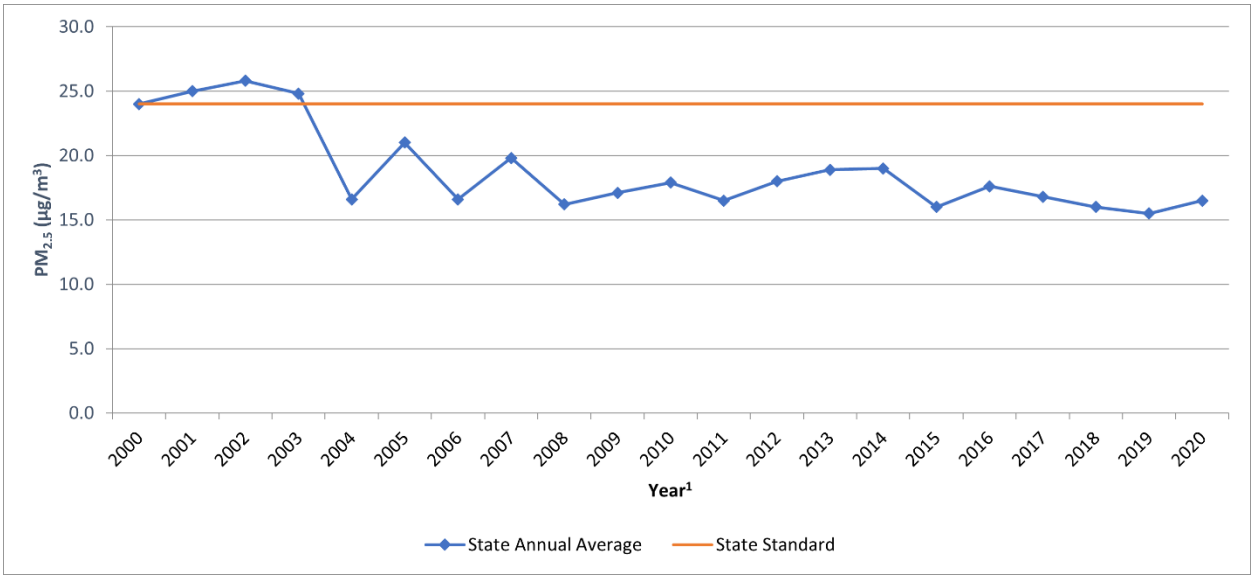
Tables 2-8 and 2-9 shows the most recent 24-hour average $PM_{2.5}$ concentrations in the SCAB from 1999 through 2020. Overall, the national and state annual average concentrations have decreased by almost 50% and 31% respectively (23). It should be noted that the SCAB is currently designated as nonattainment for the state and federal $PM_{2.5}$ standards.

TABLE 2-8: SCAB 24-HOUR AVERAGE CONCENTRATION $PM_{2.5}$ TREND (BASED ON FEDERAL STANDARD)[1]



Source: 2020 CARB, iADAM: Top Four Summary: $PM_{2.5}$ 24-Hour Averages (1999-2020)
[1] 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 $PM_{2.5}$ TREND (BASED ON STATE STANDARD)[1]



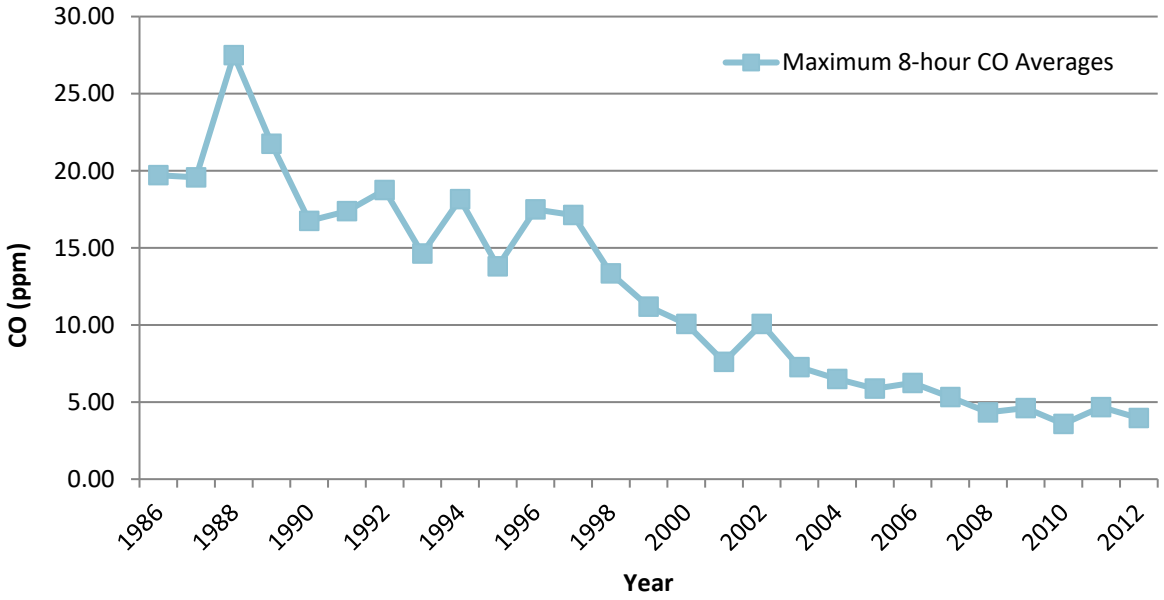
Source: 2020 CARB, iADAM: Top Four Summary: $PM_{2.5}$ 24-Hour Averages (1999-2020)
[1] Some years have been omitted from the table as insufficient data (or no) data has been reported. Years with reported value of "0" have also been omitted.

While the 2012 AQMP PM_{10} 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 $PM_{2.5}$.

The 2006 to 2010 base period used for the 2012 attainment demonstration had near-normal rainfall. While the trend of $PM_{2.5}$-equivalent emission reductions continued through 2015, the severe drought conditions contributed to the $PM_{2.5}$ increases observed after 2012. As a result of the disrupted progress toward attainment of the federal 24-hour $PM_{2.5}$ 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 $PM_{2.5}$ NAAQS in the Los Angeles-SCAB Serious $PM_{2.5}$ 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 (24).

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 (25). 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 (26). The most recent CO concentrations in the SCAB are shown in Table 2-10 (23). 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[1]

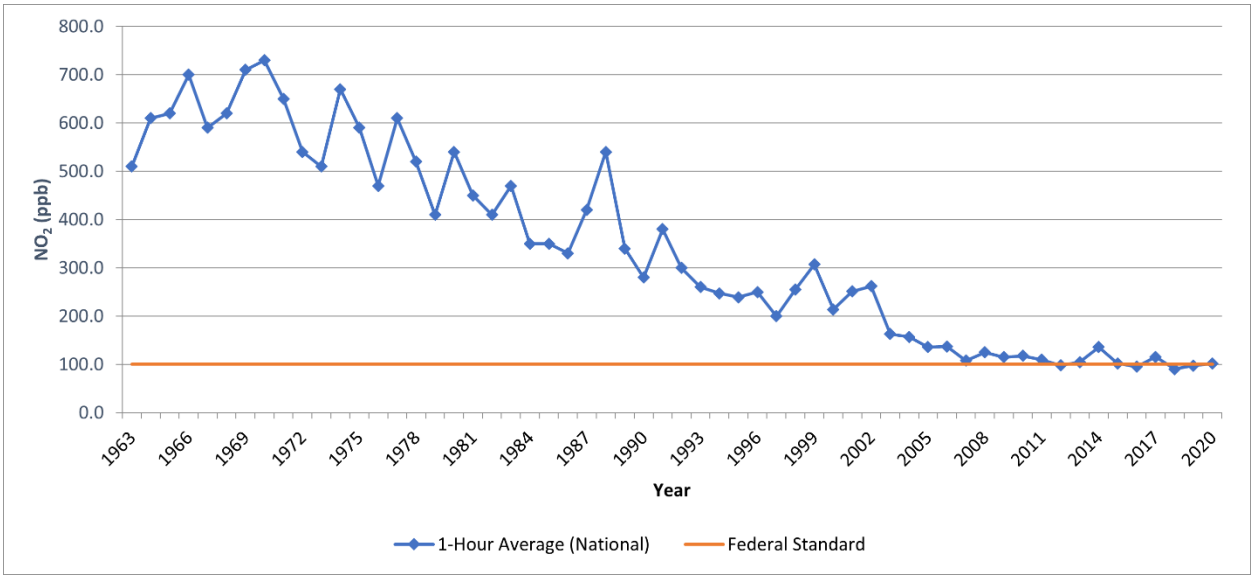


Source: 2020 CARB, iADAM: Top Four Summary: CO 8-Hour Averages (1986-2012)
[1] The most recent year where 8-hour concentration data is available is 2012.

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*) (27). 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.

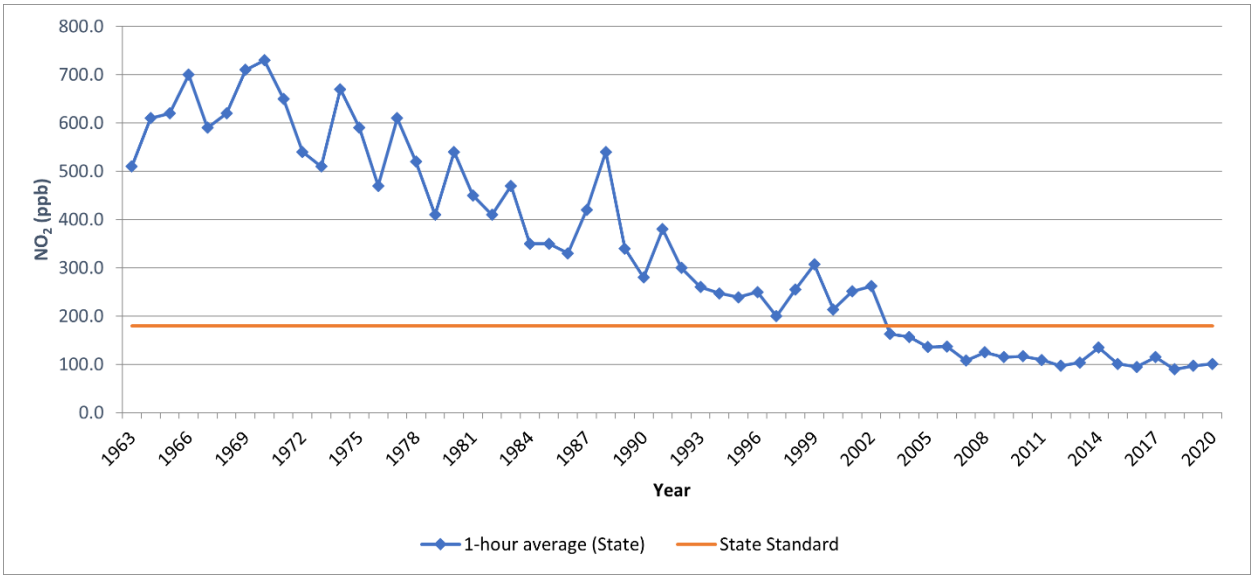
The most recent NO_2 data for the SCAB is shown in Tables 2-11 and 2-12 (23). Over the last 50 years, NO_2 values have decreased significantly; the peak 1-hour national and state averages for 2020 is approximately 80% lower than what it was during 1963. The SCAB attained the State 1-hour NO_2 standard 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 (28). The new standard is just barely exceeded in the SCAQMD. NO_2 is formed from NO_X emissions, which also contribute to O_3. As a result, the majority of the future emission control measures would be implemented as part of the overall O_3 control strategy. Many of these control measures would target mobile sources, which account for more than three-quarters of California's NO_X 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_2 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_2 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 (29) 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_6H_6), and 1,3-butadiene (C_4H_6); those that are derived from stationary sources: perchloroethylene (C_2Cl_4) and hexavalent chromium (Cr(VI)); and those derived from photochemical reactions of emitted VOCs: formaldehyde (CH_2O) and acetaldehyde (C_2H_4O)[2]. The decline in ambient concentration and emission trends of these TACs are a result of various regulations CARB has implemented to address cancer risk.

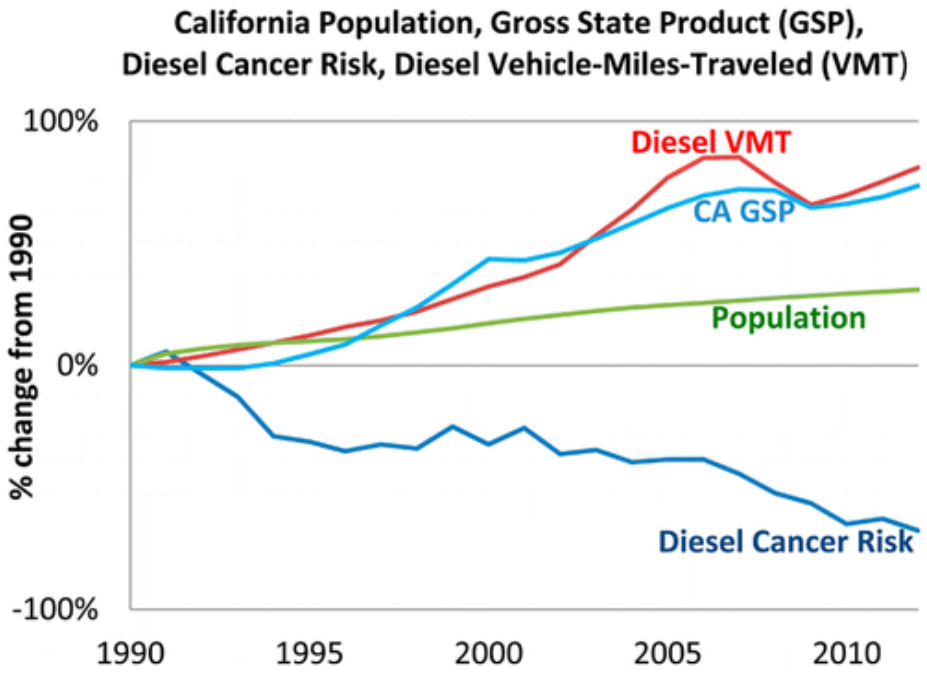
MOBILE SOURCE TACS

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 (29).

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.

[2] 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



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 (30), CARB statewide On-road Truck and Bus Regulation (31), and the Ports of Los Angeles and Long Beach Clean Truck Program (CTP) require accelerated implementation of "clean trucks" into the statewide truck fleet (32). 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.

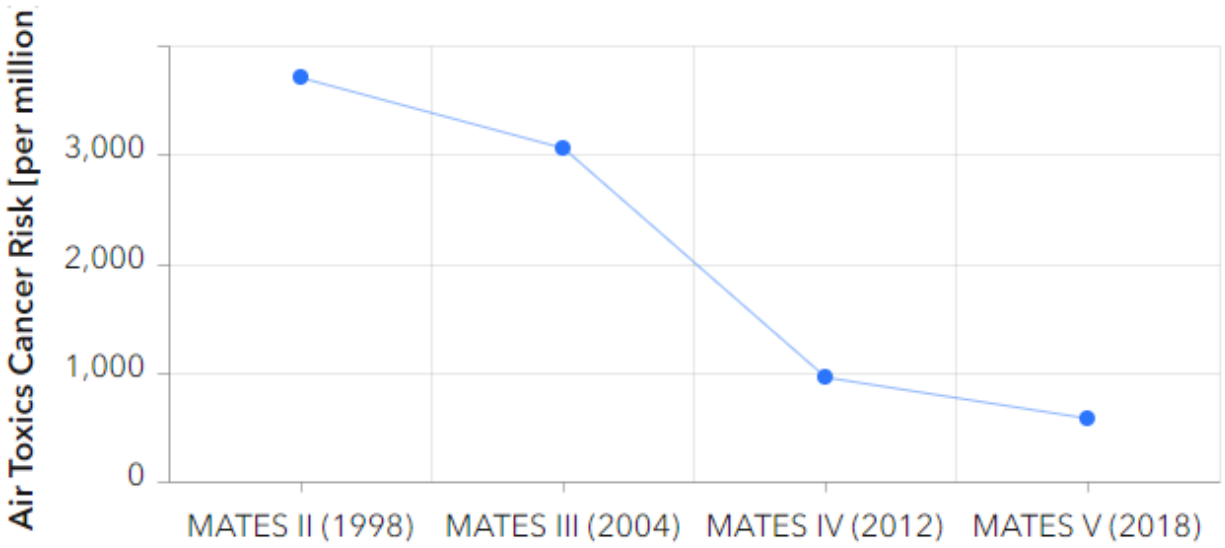
Diesel emissions identified in this analysis would therefore overstate future DPM emissions since not all the regulatory requirements are reflected in the modeling.

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 (33). The draft report for the MATES V study was published in late May and the comment submission deadline on June 7, 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 (34). Exhibit 2-B illustrates the MATES V Risk trends for the nearest available monitoring site to the Project, located in Long Beach.

EXHIBIT 2-B: MATES V RISK MAP



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3 PROJECT AIR QUALITY IMPACT

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 (35). 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_X	100 lbs/day	55 lbs/day
VOC	75 lbs/day	55 lbs/day
PM_{10}	150 lbs/day	150 lbs/day
$PM_{2.5}$	55 lbs/day	55 lbs/day
SO_X	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 CALEEMOD

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

In May 2022, the CAPCOA in conjunction with other California air districts, including SCAQMD, released the latest version of CalEEMod version 2022.1. The purpose of this model is to calculate construction-source and operational-source criteria pollutant (VOCs, NO_X, SO_X, CO, PM_{10}, and $PM_{2.5}$) and GHG emissions from direct and indirect sources; and quantify applicable air quality and GHG reductions achieved from mitigation measures (36). Accordingly, the latest version of CalEEMod 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 3.4.

3.4 CONSTRUCTION EMISSIONS

3.4.1 CONSTRUCTION ACTIVITIES

Construction activities associated with the Project would result in emissions of VOCs, NO_X, SO_X, CO, PM_{10}, and $PM_{2.5}$. Construction related emissions are expected from the following construction activities:

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

DEMOLITION ACTIVITIES

The site is currently developed with existing asphalt/concrete and buildings which will be demolished. Demolition of the existing asphalt/concrete and buildings will result in approximately 24,000 total tons of material that would be demolished, crushed, and stockpiled on-site to be used as fill.

CRUSHING ACTIVITIES

The Project activities would include on-site crushing of concrete and asphalt pulverizing during demolition activity. Fugitive dust emissions would also be generated through the crushing debris on-site. The U.S. EPA's AP-42 compilation of emission factors available in Chapter 11.19.2-2 were used to estimate fugitive dust from crushing activities. As noted above, it is estimated that approximately 1,800 tons of debris would be crushed per day.

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.). CalEEMod was utilized to calculate fugitive dust emissions resulting from this phase of activity.

Due to the presence of VOC-contaminated soil at the Project site, soil remediation activities will be performed as part of Project construction. While soil remediation is expected to occur on-site, and off-site hauling is expected to be very limited, for analytical purposes, up to 10,000 cubic yards (CY) of soil export has been conservatively assumed. The emissions associated with trucks hauling up to 10,000 CY of soil are included in this analysis, the exported material would likely be taken to regional landfills that accept contaminated waste, such as the Chiquita Canyon Landfill in Castaic or the Sunshine Canyon Landfill in Sylmar located an average distance of 56.9 miles from the Project site. To ensure that emissions and consequently impacts are overstated rather than understated, it is assumed for analytical purposes that up to 10,000 CY of potential contaminated soil would be hauled off-site approximately 56.9 miles. Soil remediation activities are subject to SCAQMD Rule 1166, which requires the preparation of a site-specific plan for the monitoring, treatment, handling, and removal of contaminated soils. The proposed Project would be required to comply with the requirements of Rule 1166. Because implementation of Rule 1166 requirements would minimize potential emissions that may occur during soil remediation activities, and because these activities would be short-term in nature, no additional impacts beyond those identified in this report would occur.

OFF-SITE UTILITY AND INFRASTRUCTURE IMPROVEMENTS

In addition, to support the Project development, there may be paving for off-site improvements associated with roadway construction and utility installation for the Project. It is expected that the off-site construction activities would not take place at one location for the entire duration of construction. Impacts associated with these activities are not expected to exceed the emissions identified for Project-related construction activities since the off-site construction areas would have physical constraints on the amount of daily activity that could occur. The physical constraints would limit the amount of construction equipment that could be used, and any off-site and utility infrastructure construction would not use equipment totals that would exceed the equipment totals on Table 3-4. As such, no impacts beyond what has already been identified in this report are expected to occur.

ON-ROAD TRIPS

Construction generates on-road vehicle emissions from vehicle usage for workers, vendor trucks and haul trucks traveling to and from the site. The number of worker, vendor, and haul trips are presented below in Table 3-2. Worker trips are based on CalEEMod defaults. 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.

TABLE 3-2: CONSTRUCTION TRIP ASSUMPTIONS

Construction Activity	Worker Trips Per Day	Vendor Trips Per Day	Hauling Trips Per Day
Demolition/Crushing	23	5	240
Site Preparation	18	2	0
Grading	23	7	36
Building Construction	128	37	0
Paving	15	0	0
Architectural Coating	26	0	0

3.4.2 CONSTRUCTION DURATION

For purposes of analysis, construction of Project is expected to commence in July 2024 and would end in August 2025. The construction schedule utilized in the analysis, shown in Table 3-3, represents a "worst-case" analysis scenario should construction occur any time after the respective dates since emission factors for construction decrease as time passes and the analysis year increases due to emission regulations becoming more stringent[3]. The duration of construction activity and associated equipment represents a reasonable approximation of the expected construction fleet as required per *CEQA Guidelines* (1). As shown on the table below, it is expected that overlap would occur during the building construction, paving, and architectural coating phases of Project construction.

TABLE 3-3: CONSTRUCTION DURATION

Construction Activity	Start Date	End Date	Days
Demolition/Crushing	07/25/2024	08/28/2024	25
Site Preparation	08/29/2024	09/11/2024	10
Grading	09/12/2024	10/30/2024	35
Building Construction	10/31/2024	08/06/2025	200
Paving	07/01/2025	08/06/2025	27
Architectural Coating	05/22/2025	08/06/2025	55

3.4.3 CONSTRUCTION EQUIPMENT

Consistent with industry standards and typical construction practices, each piece of equipment listed in Table 3-4 would 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 City's Code.

[3] As shown in the CalEEMod User's Guide Version 2022.1, 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

Construction Activity	Equipment[1]	Quantity	Hours Per Day
Demolition/Crushing	Concrete/Industrial Saws	1	8
	Excavators	3	8
	Rubber Tired Dozers	2	8
	Crushing/Proc. Equipment	1	8
	Water Trucks	2	8
Site Preparation	Rubber Tired Dozers	3	8
	Crawler Tractors	4	8
Grading	Excavators	1	8
	Graders	1	8
	Rubber Tired Dozers	1	8
	Scrapers	4	4
	Crawler Tractors	1	8
	Water Trucks	1	8
Building Construction	Cranes	2	8
	Forklifts	5	8
	Generator Sets	2	8
	Tractors/Loaders/Backhoes	5	8
	Welders	2	8
Paving	Pavers	2	8
	Paving Equipment	2	8
	Rollers	2	8
Architectural Coating	Airless Paint Pumps	1	8

[1] In order to account for fugitive dust emissions, Crawler Tractors were used in lieu of Tractors/Loaders/Backhoes.

IMPACTS WITHOUT MITIGATION

CalEEMod utilizes summer and winter EMFAC2021 emission factors in order to derive vehicle emissions associated with Project operational activities, which vary by season. As such, the estimated maximum daily construction emissions without mitigation for both summer and winter periods are summarized on Table 3-5. Detailed unmitigated construction model outputs are presented in Appendix 3.1. Under the assumed scenarios, emissions resulting from the Project construction will not exceed criteria pollutant thresholds established by the SCAQMD.

TABLE 3-5: OVERALL CONSTRUCTION EMISSIONS SUMMARY – WITHOUT MITIGATION

Year	Emissions (lbs/day)					
	VOC	**NO_X**	**CO**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**
Summer						
2024	37.92	53.44	85.85	0.17	20.06	5.13
2025	31.73	30.31	47.69	0.07	3.73	1.72
Winter						
2024	4.19	45.72	35.14	0.12	6.51	3.17
2025	2.82	22.80	33.54	0.06	2.86	1.27
Maximum Daily Emissions	**37.92**	**53.44**	**85.85**	**0.17**	**20.06**	**5.13**
SCAQMD Regional Threshold	75	100	550	150	150	55
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**	**NO**

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

3.5 OPERATIONAL EMISSIONS

The proposed Project has also been evaluated based on the following industrial land use mixes:

- Tenant Use Option 1: 304,344 sf Manufacturing
- Tenant Use Option 2: 304,344 sf General Light Industrial
- Tenant Use Option 3: 304,344 sf Warehouse
- Tenant Use Option 4: 304,344 sf High-Cube Fulfillment (Non-Sort)
- Tenant Use Option 5: 304,344 sf High-Cube Cold Storage
- Tenant Use Option 6: 76,086 sf Manufacturing and 228,258 sf Warehouse
- Tenant Use Option 7: 76,086 sf Manufacturing and 228,258 sf High-Cube Transload

Operational activities associated with the Project would result in emissions of VOCs, NO_X, SO_X, CO, PM_{10}, and $PM_{2.5}$. Operational emissions are expected from the following primary sources:

- Area Source Emissions
- Energy Source Emissions
- Mobile Source Emissions
- On-Site Cargo Handling Equipment Emissions
- Stationary Source Emissions
- TRU Emissions (Tenant Use Option 5 only)

3.5.1 AREA SOURCE EMISSIONS

ARCHITECTURAL COATINGS

Over a period of time the buildings that are part of this Project would require maintenance and would 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, shedders/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 ELECTRICITY

Criteria pollutant emissions are emitted through the generation of electricity. 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 excluded from the evaluation of significance.

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 generation rates and vehicle fleet mix available from the *Cherry Avenue Industrial Building Traffic Analysis* were utilized in this analysis (37). Trip lengths for passenger vehicles and trucks were obtained from the *Cherry Avenue Industrial Building Supplemental Vehicle Miles Traveled (VMT) Analysis* (38).

PASSENGER VEHICLES

Although the *Traffic Analysis* does not breakdown passenger cars by type, this analysis assumes that passenger cars include Light-Duty-Auto vehicles (LDA), Light-Duty-Trucks (LDT1[4] & LDT2[5]), Medium-Duty-Vehicles (MDV), and Motorcycles (MCY) vehicle types. To account for emissions generated by passenger vehicles, the fleet mix in Table 3-6 was utilized and a passenger car trip length of 11 miles was used based on the *VMT Analysis* (38) .

TABLE 3-6: PASSENGER CAR FLEET MIX

Scenario	Land Use	% Vehicle Type				
		LDA	LDT1	LDT2	MDV	MCY
Option 1	Manufacturing	53.61%	4.65%	24.60%	14.87%	2.26%
Option 2	General Light Industrial					
Option 3	Warehouse					
Option 4	High-Cube Fulfillment (Non-Sort)					
Option 5	High-Cube Cold Storage					
Option 6	Manufacturing					
	Warehouse					
Option 7	Manufacturing					
	High-Cube Transload					

Note: The Project-specific passenger car fleet mix used in this analysis is based on a proportional split utilizing the default CalEEMod percentages assigned to LDA, LDT1, LDT2, and MDV vehicle types.

TRUCKS

Trucks are broken down by truck type (or axle type) and are categorized as either Light-Heavy-Duty Trucks (LHDT1[6] & LHDT2 [7])/2-axle, Medium-Heavy-Duty Trucks (MHDT)/3-axle, and Heavy-Heavy-Duty Trucks (HHDT)/4+-axle as identified in the *Traffic Analysis* (37). To account for emissions generated by trucks, the fleet mix in Table 3-7 was utilized. A truck trip length of 19.5 miles was utilized for LHDT1, LHDT2, and MHDT tucks, and a truck trip length of 48.4 miles was utilized for HHDT trucks based on the *VMT Analysis* (38). This results in a weighted average truck trip length of approximately 38 miles, which has been used in this analysis.

[4] Vehicles under the LDT1 category have a gross vehicle weight rating (GVWR) of less than 6,000 lbs. and equivalent test weight (ETW) of less than or equal to 3,750 lbs.

[5] Vehicles under the LDT2 category have a GVWR of less than 6,000 lbs. and ETW between 3,751 lbs. and 5,750 lbs.

[6] Vehicles under the LHDT1 category have a GVWR of 8,501 to 10,000 lbs.

[7] Vehicles under the LHDT2 category have a GVWR of 10,001 to 14,000 lbs.

TABLE 3-7: TRUCK FLEET MIX

Scenario	Land Use	% Vehicle Type			
		LHDT1	LHDT2	MHDT	HHDT
Option 1	Manufacturing	13.92%	3.48%	20.29%	62.32%
Option 2	General Light Industrial	14.36%	3.59%	20.51%	61.54%
Option 3	Warehouse	13.77%	3.44%	20.43%	62.37%
Option 4	High-Cube Fulfillment (Non-Sort)	13.34%	3.33%	22.22%	61.11%
Option 5	High-Cube Cold Storage	27.83%	6.95%	11.30%	53.91%
Option 6	Manufacturing	13.34%	3.33%	22.22%	61.11%
	Warehouse	13.92%	3.48%	20.29%	62.32%
Option 7	Manufacturing	13.34%	3.33%	22.22%	61.11%
	High-Cube Transload	15.39%	3.84%	19.23%	61.54%

Note: Project-specific truck fleet mix is based on the number of trips generated by each truck type (LHDT1, LHDT2, MHDT, and HHDT) relative to the total number of truck trips.

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 brake and tire wear particulates. The emissions estimate for travel on paved roads were calculated using CalEEMod.

3.5.4 ON-SITE CARGO HANDLING EQUIPMENT SOURCE EMISSIONS

It is common for industrial buildings to require the operation of exterior cargo handling equipment in the building's truck court areas. For this particular Project, on-site modeled operational equipment includes up to one (1) 200 horsepower (hp), compressed natural gas or gasoline-powered tractors/loaders/backhoes operating at 4 hours a day[8] for 365 days of the year. It should be noted that forklifts would be electric and serve the interior of the building.

3.5.5 STATIONARY SOURCES

It is anticipated that under each Tenant Use Option, the Project would utilize a 300 hp diesel-powered emergency fire pump. Additionally, under Tenant Use Option 5, it was assumed that the Project would utilize an additional 1,500 hp diesel-powered emergency backup generator. For analytical purposes, it is anticipated that the fire pump and emergency generator would each operate for a maximum time of 0.5 hours per day and 50 hours per year for maintenance and testing purposes.

[8] Based on Table II-3, Port and Rail Cargo Handling Equipment Demographics by Type, from CARB's Technology Assessment: Mobile Cargo Handling Equipment document, a single piece of equipment could operate up to 2 hours per day (Total Average Annual Activity divided by Total Number Pieces of Equipment). As such, the analysis conservatively assumes that the tractor/loader/backhoe would operate up to 4 hours per day.

3.5.6 TRU EMISSIONS (TENANT USE OPTION 5 ONLY)

In order to account for the possibility of refrigerated uses, trucks associated with the cold-storage use proposed under Tenant Use Option 5 were assumed to be equipped with transport refrigeration units (TRUs). For modeling purposes, 228 two-way truck trips have been estimated to include TRUs (e.g., all truck trips that would be associated with up to 304,344-sf of high-cube cold storage use identified for Tenant Use Option 5). TRUs are accounted for during on-site and off-site travel. The TRU calculations are based on EMissions FACtor Model version 2021 (EMFAC2021), developed by the CARB. EMFAC2021 does not provide emission rates per hour or mile as with the on-road emission model and only provides emission inventories. Emission results are produced in tons per day while all activity, fuel consumption and horsepower hours were reported at annual levels. The emission inventory is based on specific assumptions including the average horsepower rating of specific types of equipment and the hours of operation annually. These assumptions are not always consistent with assumptions used in the modeling of Project level emissions. Therefore, the emissions inventory was converted into emission rates to accurately calculate emissions from TRU operation associated with Project level details. This was accomplished by converting the annual horsepower hours to daily operational characteristics and converting the daily emission levels into hourly emission rates based on the total emission of each criteria pollutant by equipment type and the average daily hours of operations.

3.5.7 OPERATIONAL EMISSIONS SUMMARY

EXISTING EMISSIONS

As previously stated, the Project site is currently occupied. The estimated operation-source emissions from the existing development are summarized on Table 3-8. Existing emissions were modeled assuming 308,000 sf of unrefrigerated warehouse uses and a 7.09-acre parking lot utilizing CalEEMod model defaults and trip characteristics available from the *Cherry Avenue Industrial Building Traffic Assessment* (37). Detailed operation model outputs are presented in Appendix 3.2.

TABLE 3-8: EMISSIONS FROM EXISTING DEVELOPMENT

Source	Emissions (lbs/day)					
	VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Summer						
Mobile Source	0.41	0.37	4.32	0.01	1.00	0.26
Area Source	9.62	0.11	13.40	0.00	0.02	0.02
Energy Source	0.09	1.59	1.34	0.01	0.12	0.12
Total Maximum Daily Emissions	**10.12**	**2.07**	**19.06**	**0.02**	**1.14**	**0.40**
Winter						
Mobile Source	0.40	0.41	3.92	0.01	1.00	0.26
Area Source	7.42	0.00	0.00	0.00	0.00	0.00
Energy Source	0.09	1.59	1.34	0.01	0.12	0.12
Total Maximum Daily Emissions	**7.91**	**2.00**	**5.26**	**0.02**	**1.12**	**0.38**

Source: CalEEMod operational-source emissions for the existing development are presented in Appendix 3.2.

PROPOSED PROJECT EMISSIONS

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 are summarized on Tables 3-9 through 3-15 for Tenant Use Options 1 through 7, respectively. Detailed operation model outputs for the Project are presented in Appendices 3.3. As shown on Tables 3-9 through 3-15, the Project's daily regional emissions from on-going operations will not exceed any of the thresholds of significance under any of the Tenant Use Options.

TABLE 3-9: SUMMARY OF PEAK OPERATIONAL EMISSIONS – TENANT USE OPTION 1

Source	Emissions (lbs/day)					
	VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Summer						
Mobile Source	4.87	18.20	54.7	0.24	15.00	4.04
Area Source	9.51	0.11	13.20	0	0.02	0.02
Stationary Sources	0.49	1.38	1.26	0	0.07	0.07
Cargo Handling Equipment	0.12	0.38	16.44	0	0.03	0.03
Project Maximum Daily Emissions	**14.99**	**20.07**	**85.60**	**0.24**	**15.12**	**4.16**
Existing	*10.12*	*2.07*	*19.06*	*0.02*	*1.14*	*0.40*
Total Maximum Daily Emissions	**4.87**	**18.00**	**66.54**	**0.22**	**13.98**	**3.76**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**	**NO**
Winter						
Mobile Source	4.84	19.20	50.10	0.24	15.00	4.05
Area Source	7.33	0	0	0	0	0
Stationary Sources	0.49	1.38	1.26	0	0.07	0.07
Cargo Handling Equipment	0.12	0.38	16.44	0	0.03	0.03
Project Maximum Daily Emissions	**12.78**	**20.96**	**67.80**	**0.24**	**15.10**	**4.15**
Existing	*7.91*	*2.00*	*5.26*	*0.02*	*1.12*	*0.38*
Total Maximum Daily Emissions	**4.87**	**18.96**	**62.54**	**0.22**	**13.98**	**3.77**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**	**NO**

Source: CalEEMod operational-source emissions are presented in Appendix 3.3.

TABLE 3-10: SUMMARY OF PEAK OPERATIONAL EMISSIONS – TENANT USE OPTION 2

Source	Emissions (lbs/day)					
	VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Summer						
Mobile Source	5.18	11.90	56.60	0.19	14.00	3.70
Area Source	9.51	0.11	13.20	0	0.02	0.02
Stationary Sources	0.49	1.38	1.26	0	0.07	0.07
Cargo Handling Equipment	0.12	0.38	16.44	0	0.03	0.03
Project Maximum Daily Emissions	**15.3**	**13.77**	**87.5**	**0.19**	**14.12**	**3.82**
Existing	*10.12*	*2.07*	*19.06*	*0.02*	*1.14*	*0.40*
Total Maximum Daily Emissions	**5.18**	**11.7**	**68.44**	**0.17**	**12.98**	**3.42**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**	**NO**
Winter						

Source	Emissions (lbs/day)					
	VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Mobile Source	5.15	12.60	51.50	0.19	14.00	3.70
Area Source	7.33	0	0	0	0	0
Stationary Sources	0.49	1.38	1.26	0	0.07	0.07
Cargo Handling Equipment	0.12	0.38	16.44	0	0.03	0.03
Project Maximum Daily Emissions	**13.09**	**14.36**	**69.20**	**0.19**	**14.10**	**3.80**
Existing	*7.91*	*2.00*	*5.26*	*0.02*	*1.12*	*0.38*
Total Maximum Daily Emissions	**5.18**	**12.36**	**63.94**	**0.17**	**12.98**	**3.42**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**	**NO**

Source: CalEEMod operational-source emissions are presented in Appendix 3.3.

TABLE 3-11: SUMMARY OF PEAK OPERATIONAL EMISSIONS – TENANT USE OPTION 3

Source	Emissions (lbs/day)					
	VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Summer						
Mobile Source	1.63	21.70	21.80	0.21	9.16	2.62
Area Source	9.51	0.11	13.20	0	0.02	0.02
Stationary Sources	0.49	1.38	1.26	0	0.07	0.07
Cargo Handling Equipment	0.12	0.38	16.44	0	0.03	0.03
Project Maximum Daily Emissions	**11.75**	**23.57**	**52.70**	**0.21**	**9.28**	**2.74**
Existing	*10.12*	*2.07*	*19.06*	*0.02*	*1.14*	*0.40*
Total Maximum Daily Emissions	**1.63**	**21.5**	**33.64**	**0.19**	**8.14**	**2.34**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**	**NO**
Winter						
Mobile Source	1.61	22.70	20.60	0.21	9.16	2.62
Area Source	7.33	0	0	0	0	0
Stationary Sources	0.49	1.38	1.26	0	0.07	0.07
Cargo Handling Equipment	0.12	0.38	16.44	0	0.03	0.03
Project Maximum Daily Emissions	**9.55**	**24.46**	**38.3**	**0.21**	**9.26**	**2.72**
Existing	*7.91*	*2.00*	*5.26*	*0.02*	*1.12*	*0.38*
Total Maximum Daily Emissions	**1.64**	**22.46**	**33.04**	**0.19**	**8.14**	**2.34**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**	**NO**

Source: CalEEMod operational-source emissions are presented in Appendix 3.3.

TABLE 3-12: SUMMARY OF PEAK OPERATIONAL EMISSIONS – TENANT USE OPTION 4

Source	Emissions (lbs/day)					
	VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Summer						
Mobile Source	1.84	9.06	21.20	0.11	6.26	1.71
Area Source	9.51	0.11	13.20	0	0.02	0.02
Stationary Sources	0.49	1.38	1.26	0	0.07	0.07
Cargo Handling Equipment	0.12	0.38	16.44	0	0.03	0.03
Project Maximum Daily Emissions	**11.96**	**10.93**	**52.10**	**0.11**	**6.38**	**1.83**
Existing	*10.12*	*2.07*	*19.06*	*0.02*	*1.14*	*0.40*
Total Maximum Daily Emissions	**1.84**	**8.86**	**33.04**	**0.09**	**5.24**	**1.43**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**	**NO**
Winter						
Mobile Source	1.83	9.51	19.50	0.11	6.26	1.71
Area Source	7.33	0	0	0	0	0
Stationary Sources	0.49	1.38	1.26	0	0.07	0.07
Cargo Handling Equipment	0.12	0.38	16.44	0	0.03	0.03
Project Maximum Daily Emissions	**9.77**	**11.27**	**37.20**	**0.11**	**6.36**	**1.81**
Existing	*7.91*	*2.00*	*5.26*	*0.02*	*1.12*	*0.38*
Total Maximum Daily Emissions	**1.86**	**9.27**	**31.94**	**0.09**	**5.24**	**1.43**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**	**NO**

Source: CalEEMod operational-source emissions are presented in Appendix 3.3.

TABLE 3-13: SUMMARY OF PEAK OPERATIONAL EMISSIONS – TENANT USE OPTION 5

Source	Emissions (lbs/day)					
	VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Summer						
Mobile Source	2.12	24.00	27.60	0.24	11.30	3.22
Area Source	9.51	0.11	13.20	0	0.02	0.02
TRU Source	8.97	8.65	1.03	0	0.43	0.40
Stationary Sources	1.48	6.19	3.77	0.01	0.22	0.22
Cargo Handling Equipment	0.12	0.38	16.44	0	0.03	0.03
Project Maximum Daily Emissions	**22.20**	**39.33**	**62.04**	**0.25**	**12.00**	**3.89**
Existing	*10.12*	*2.07*	*19.06*	*0.02*	*1.14*	*0.40*
Total Maximum Daily Emissions	**12.08**	**37.26**	**42.98**	**0.23**	**10.86**	**3.49**
SCAQMD Regional Threshold	55	55	550	150	150	55

Source	Emissions (lbs/day)					
	VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**	**NO**
Winter						
Mobile Source	2.10	25.10	26.10	0.24	11.30	3.22
Area Source	7.33	0	0	0	0	0
TRU Source	8.97	8.65	1.03	0	0.43	0.40
Stationary Sources	1.48	6.19	3.77	0.01	0.22	0.22
Cargo Handling Equipment	0.12	0.38	16.44	0	0.03	0.03
Project Maximum Daily Emissions	**20.00**	**40.32**	**47.34**	**0.25**	**11.98**	**3.87**
Existing	*7.91*	*2.00*	*5.26*	*0.02*	*1.12*	*0.38*
Total Maximum Daily Emissions	**12.09**	**38.32**	**42.08**	**0.23**	**10.86**	**3.49**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**	**NO**

Source: CalEEMod operational-source emissions are presented in Appendix 3.3.

TABLE 3-14: SUMMARY OF PEAK OPERATIONAL EMISSIONS – TENANT USE OPTION 6

Source	Emissions (lbs/day)					
	VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Summer						
Mobile Source	2.44	20.80	30.00	0.22	10.60	2.97
Area Source	9.51	0.11	13.20	0	0.02	0.02
Stationary Sources	0.49	1.38	1.26	0	0.07	0.07
Cargo Handling Equipment	0.12	0.38	16.44	0	0.03	0.03
Project Maximum Daily Emissions	**12.56**	**22.67**	**60.90**	**0.22**	**10.72**	**3.09**
Existing	*10.12*	*2.07*	*19.06*	*0.02*	*1.14*	*0.40*
Total Maximum Daily Emissions	**2.44**	**20.60**	**41.84**	**0.20**	**9.58**	**2.69**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**	**NO**
Winter						
Mobile Source	2.42	21.70	28.00	0.22	10.30	2.97
Area Source	7.33	0	0	0	0	0
Stationary Sources	0.49	1.38	1.26	0	0.07	0.07
Cargo Handling Equipment	0.12	0.38	16.44	0	0.03	0.03
Project Maximum Daily Emissions	**10.36**	**23.46**	**45.70**	**0.22**	**10.40**	**3.07**
Existing	*7.91*	*2.00*	*5.26*	*0.02*	*1.12*	*0.38*
Total Maximum Daily Emissions	**2.45**	**21.46**	**40.44**	**0.20**	**9.28**	**2.69**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**	**NO**

Source: CalEEMod operational-source emissions are presented in Appendix 3.3.

TABLE 3-15: SUMMARY OF PEAK OPERATIONAL EMISSIONS – TENANT USE OPTION 7

Source	Emissions (lbs/day)					
	VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Summer						
Mobile Source	2.29	11.10	26.20	0.14	7.72	2.11
Area Source	9.51	0.11	13.20	0	0.02	0.02
Stationary Sources	0.49	1.38	1.26	0	0.07	0.07
Cargo Handling Equipment	0.12	0.38	16.44	0	0.03	0.03
Project Maximum Daily Emissions	**12.41**	**12.97**	**57.10**	**0.14**	**7.84**	**2.23**
Existing	*10.12*	*2.07*	*19.06*	*0.02*	*1.14*	*0.40*
Total Maximum Daily Emissions	**2.29**	**10.90**	**38.04**	**0.12**	**6.70**	**1.83**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**	**NO**
Winter						
Mobile Source	2.27	11.70	24.10	0.13	7.72	2.11
Area Source	7.33	0	0	0	0	0
Stationary Sources	0.49	1.38	1.26	0	0.07	0.07
Cargo Handling Equipment	0.12	0.38	16.44	0	0.03	0.03
Project Maximum Daily Emissions	**10.21**	**13.46**	**41.80**	**0.13**	**7.82**	**2.21**
Existing	*7.91*	*2.00*	*5.26*	*0.02*	*1.12*	*0.38*
Total Maximum Daily Emissions	**2.30**	**11.46**	**36.54**	**0.11**	**6.70**	**1.83**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**	**NO**

Source: CalEEMod operational-source emissions are presented in Appendix 3.3.

3.6 LOCALIZED AIR QUALITY IMPACTS

BACKGROUND ON LST DEVELOPMENT

The analysis makes use of methodology included in the SCAQMD *Final Localized Significance Threshold Methodology* (LST Methodology). The SCAQMD has established that localized 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[9]. LSTs represent the maximum emissions from a project that would not cause

[9] 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."

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* (39).

EMISSIONS CONSIDERED

Based on SCAQMD's *LST Methodology*, emissions for concern during construction activities are on-site NO_X, CO, $PM_{2.5}$, and PM_{10}. The *LST Methodology* clearly states that "off-site mobile emissions from the Project should not be included in the emissions compared to LSTs (40)." As such, for purposes of the construction LST analysis, only emissions included in the CalEEMod "on-site" emissions outputs were considered.

DISPERSION MODELING

In order to estimate localized pollutant concentrations resulting from Project construction, the SCAQMD-approved American Meteorological Society/EPA Regulatory Model (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.

A ground level release height and a 1 meter (approximately 3.28 feet) initial vertical dimension (sigma z) were utilized for fugitive dust emissions of PM_{10} and $PM_{2.5}$ consistent with SCAQMD's LST guidance.

In order to account for equipment exhaust emissions from NO_2, CO, PM_{10}, and $PM_{2.5}$ 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 Long Beach 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 has been used to determine construction and operational air quality impacts for emissions of PM_{10} and $PM_{2.5}$, since PM_{10} and $PM_{2.5}$ thresholds are based on a 24-hour averaging time.

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_2 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* (40)." Therefore, any adjacent land use where an individual could remain for 1 or 8-hours, that is located at a closer distance to the Project site than the receptor used for PM_{10} and $PM_{2.5}$ analysis, must be considered to determine construction and operational LST air impacts for emissions of NO_2 and CO since these pollutants have an averaging time of 1 and 8-hours.

STUDY AREA RECEPTORS

Receptors in the Project study area are described below and shown on Exhibit 3-A. Localized air quality impacts were evaluated at sensitive 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 2021 East Curry Street, approximately 1,141 feet north of the Project site. Since there are no private outdoor living areas (backyards) facing the Project site, receptor R1 is placed at the building façade.

R2: Location R2 represents the Southfield Apartments at 5565 Ackerfield Avenue approximately 858 feet southeast of the Project site. Since there are no private outdoor living areas (backyards) facing the Project site, receptor R2 is placed at the building façade.

R3: Location R3 represents the Crossroads Church at 1900 East South Street, approximately 747 feet southwest of the Project site. Since there are no private outdoor living areas (backyards) facing the Project site, receptor R3 is placed at the building façade.

R4: Location R4 represents the Intercity Fellowship Hall at 5881 Cherry Avenue, approximately 107 feet southwest of the Project site. Since there are no private outdoor living areas (backyards) facing the Project site, receptor R4 is placed at the building façade.

R5: Location R5 represents the existing residence at 5916 Gardenia Avenue, approximately 231 feet west of the Project site. Since there are no private outdoor living areas (backyards) facing the Project site, receptor R5 is placed at the residential building façade.

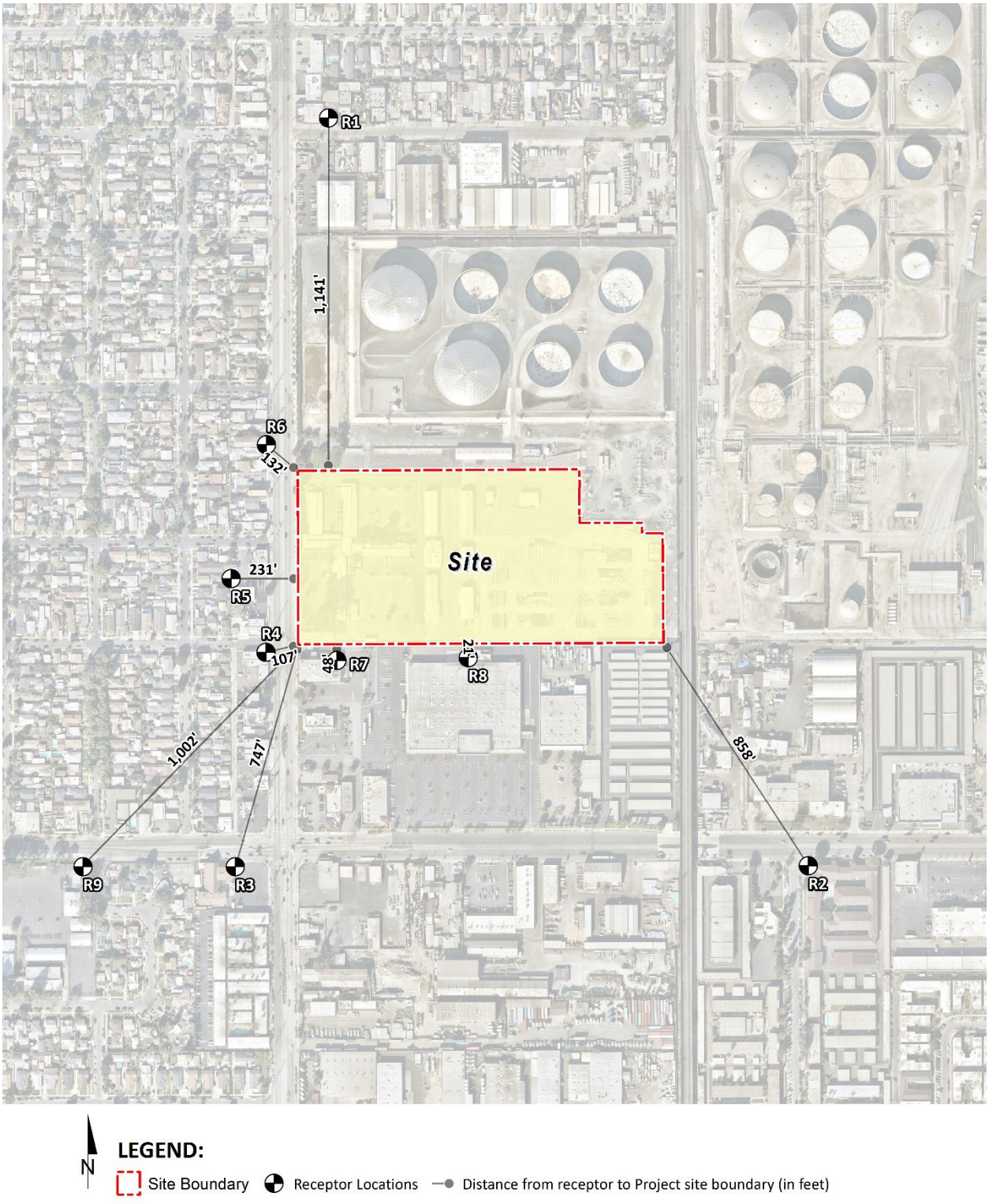
R6: Location R6 represents the existing residence at 5949 Cherry Avenue, approximately 132 feet west of the Project site. Since there are no private outdoor living areas (backyards) facing the Project site, receptor R6 is placed at the residential building façade.

R7: Location R7 represents the Los Angeles County Department of Animal Care and Control building located at 5898 Cherry Avenue, approximately 48 feet south of the Project site. Receptor R7 is placed at the building façade.

R8: Location R8 represents the Food 4 Less grocery store located at 2185 East South Street, approximately 21 feet south of the Project site. Receptor R8 is placed at the building façade.

R9: Location R9 represents Harte Elementary School at 1671 E. Phillips Street, approximately 1,002 feet southwest of the Project site. Receptor R9 is placed at the building façade.

EXHIBIT 3-A: RECEPTOR LOCATIONS



CONSTRUCTION-SOURCE LOCALIZED EMISSIONS

Emissions during the peak construction activity will not exceed the SCAQMD's localized significance thresholds at the maximally exposed receptor location, as illustrated on Table 3-16. All other modeled locations in the study area would experience a lesser concentration and consequently a lesser impact. 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 3.5.

TABLE 3-16: LOCALIZED SIGNIFICANCE SUMMARY PEAK CONSTRUCTION

Peak Construction	CO		NO_2	PM_{10}	$PM_{2.5}$
	Averaging Time				
	1-Hour	8-Hour	1-Hour	24-Hours	24-Hours
Peak Day Localized Emissions	0.18	0.09	6.03E-02	4.41	1.04
Background Concentration [A]	4.5	3.7	0.098		
Total Concentration	**4.68**	**3.79**	**0.16**	**4.41**	**1.04**
SCAQMD Localized Significance Threshold	20	9	0.18	10.4	10.4
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**

[A] Highest concentration from the last three years of available data.
Notes: PM_{10} and $PM_{2.5}$ concentrations are expressed in $\mu g/m^3$. All others are expressed in ppm.

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. As such, to establish a maximum potential impact scenario for analytic purposes, the modeled emissions include all on-site Project-related stationary (area) sources and on-site Project-related mobile emissions. In order to account for on-site mobile emissions, a trip length of 3.0 miles was utilized for both scenarios for both trucks and passenger cars.

Emissions during peak operational activity will not exceed the SCAQMD's localized significance thresholds at the maximally impacted receptor location for any of the Tenant Use Options, as shown on Tables 3-17 through 3-23. All other modeled locations in the study area would experience a lesser concentration and consequently a lesser impact. 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 3.5.

TABLE 3-17: LOCALIZED SIGNIFICANCE SUMMARY PEAK OPERATIONS – TENANT USE OPTION 1

Peak Operation	CO		NO_2	PM_{10}	$PM_{2.5}$
	Averaging Time				
	1-Hour	8-Hour	1-Hour	24-Hours	24-Hours
Peak Day Localized Emissions	3.74E-02	2.99E-02	1.07E-02	0.14	0.07
Background Concentration [A]	4.5	3.7	0.098		
Total Concentration	**4.54**	**3.73**	**0.11**	**0.14**	**0.07**
SCAQMD Localized Significance Threshold	20	9	0.18	2.5	2.5
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**

[A] Highest concentration from the last three years of available data.
Notes: PM_{10} and $PM_{2.5}$ concentrations are expressed in $\mu g/m^3$. All others are expressed in ppm.

TABLE 3-18: LOCALIZED SIGNIFICANCE SUMMARY PEAK OPERATIONS – TENANT USE OPTION 2

Peak Operation	CO		NO_2	PM_{10}	$PM_{2.5}$
	Averaging Time				
	1-Hour	8-Hour	1-Hour	24-Hours	24-Hours
Peak Day Localized Emissions	3.74E-02	2.99E-02	1.07E-02	0.14	0.07
Background Concentration [A]	4.5	3.7	0.098		
Total Concentration	**4.54**	**3.73**	**0.11**	**0.14**	**0.07**
SCAQMD Localized Significance Threshold	20	9	0.18	2.5	2.5
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**

[A] Highest concentration from the last three years of available data.
Notes: PM_{10} and $PM_{2.5}$ concentrations are expressed in $\mu g/m^3$. All others are expressed in ppm.

TABLE 3-19: LOCALIZED SIGNIFICANCE SUMMARY PEAK OPERATIONS – TENANT USE OPTION 3

Peak Operation	CO		NO_2	PM_{10}	$PM_{2.5}$
	Averaging Time				
	1-Hour	8-Hour	1-Hour	24-Hours	24-Hours
Peak Day Localized Emissions	3.13E-02	2.50E-02	1.07E-02	0.08	0.06
Background Concentration [A]	4.5	3.7	0.098		
Total Concentration	**4.53**	**3.73**	**0.11**	**0.08**	**0.06**
SCAQMD Localized Significance Threshold	20	9	0.18	2.5	2.5
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**

[A] Highest concentration from the last three years of available data.
Notes: PM_{10} and $PM_{2.5}$ concentrations are expressed in $\mu g/m^3$. All others are expressed in ppm.

TABLE 3-20: LOCALIZED SIGNIFICANCE SUMMARY PEAK OPERATIONS – TENANT USE OPTION 4

Peak Operation	CO		NO_2	PM_{10}	$PM_{2.5}$
	Averaging Time				
	1-Hour	8-Hour	1-Hour	24-Hours	24-Hours
Peak Day Localized Emissions	3.13E-02	2.50E-02	1.07E-02	0.08	0.06
Background Concentration [A]	4.5	3.7	0.098		
Total Concentration	**4.53**	**3.73**	**0.11**	**0.08**	**0.06**
SCAQMD Localized Significance Threshold	20	9	0.18	2.5	2.5
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**

[A] Highest concentration from the last three years of available data.
Notes: PM_{10} and $PM_{2.5}$ concentrations are expressed in $\mu g/m^3$. All others are expressed in ppm.

TABLE 3-21: LOCALIZED SIGNIFICANCE SUMMARY PEAK OPERATIONS – TENANT USE OPTION 5

Peak Operation	CO		NO_2	PM_{10}	$PM_{2.5}$
	Averaging Time				
	1-Hour	8-Hour	1-Hour	24-Hours	24-Hours
Peak Day Localized Emissions	4.62E-02	2.64E-02	3.29E-02	0.20	0.17
Background Concentration [A]	4.5	3.7	0.098		
Total Concentration	**4.55**	**3.73**	**0.13**	**0.20**	**0.17**
SCAQMD Localized Significance Threshold	20	9	0.18	2.5	2.5
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**

[A] Highest concentration from the last three years of available data.
Notes: PM_{10} and $PM_{2.5}$ concentrations are expressed in $\mu g/m^3$. All others are expressed in ppm.

TABLE 3-22: LOCALIZED SIGNIFICANCE SUMMARY PEAK OPERATIONS – TENANT USE OPTION 6

Peak Operation	CO		NO_2	PM_{10}	$PM_{2.5}$
	Averaging Time				
	1-Hour	8-Hour	1-Hour	24-Hours	24-Hours
Peak Day Localized Emissions	3.28E-02	2.63E-02	1.07E-02	0.09	0.06
Background Concentration [A]	4.5	3.7	0.098		
Total Concentration	**4.53**	**3.73**	**0.11**	**0.09**	**0.06**
SCAQMD Localized Significance Threshold	20	9	0.18	2.5	2.5
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**

[A] Highest concentration from the last three years of available data.
Notes: PM_{10} and $PM_{2.5}$ concentrations are expressed in $\mu g/m^3$. All others are expressed in ppm.

TABLE 3-23: LOCALIZED SIGNIFICANCE SUMMARY PEAK OPERATIONS – TENANT USE OPTION 7

Peak Operation	CO		NO_2	PM_{10}	$PM_{2.5}$
	Averaging Time				
	1-Hour	8-Hour	1-Hour	24-Hours	24-Hours
Peak Day Localized Emissions	3.22E-02	2.58E-02	1.07E-02	0.08	0.06
Background Concentration [A]	4.5	3.7	0.098		
Total Concentration	**4.53**	**3.73**	**0.11**	**0.08**	**0.06**
SCAQMD Localized Significance Threshold	20	9	0.18	2.5	2.5
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**

[A] Highest concentration from the last three years of available data.
Notes: PM_{10} and $PM_{2.5}$ concentrations are expressed in $\mu g/m^3$. All others are expressed in ppm.

3.8 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 3-24.

TABLE 3-24: CO MODEL RESULTS

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

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 (41). 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 4.3 ppm and 3.7 ppm, respectively (data from South Central LA County monitoring station for 2021). 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 (42). Traffic volumes generating the CO concentrations for the "hot spot" analysis is shown on Table 3-25. The busiest intersection evaluated was that at Wilshire Boulevard and Veteran Avenue, 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 (41). 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)[10].

TABLE 3-25: TRAFFIC VOLUMES

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

[10] Based on the ratio of the CO standard (20.0 ppm) and the modeled value (4.6 ppm)

Source: 2003 AQMP

When considering maximum traffic volumes in the Project study area, as summarized on Table 3-26 below, the intersection of Cherry Avenue and South Street would have the highest AM and PM traffic volumes of 3,763 vph and 4,257 vph, respectively. The total traffic volumes at the intersections considered are less than the traffic volumes identified in the *2003 AQMP*. As such, the Project considered herein along with background and cumulative development would not produce the volume of traffic required to generate a CO "hot spot" either in the context of the 2003 Los Angeles hot spot study or based on representative BAAQMD CO threshold considerations. Therefore, CO "hot spots" are not an environmental impact of concern for the Project. Localized air quality impacts related to mobile-source emissions would therefore be less than significant.

TABLE 3-26: PEAK HOUR TRAFFIC VOLUMES

Intersection Location	Peak Traffic Volumes (vph)				
	Northbound (AM/PM)	Southbound (AM/PM)	Eastbound (AM/PM)	Westbound (AM/PM)	Total (AM/PM)
Cherry Av. & SR-91 WB Ramps	848/903	1056/1174	0/0	666/786	2570/2863
Cherry Av. & SR-91 EB Ramps	1131/1170	1154/1345	576/413	0/0	2861/2927
Cherry Av. & Artesia Bl.	568/619	684/467	591/973	949/675	2792/2735
Cherry Av. & South St.	868/1235	1217/1075	825/975	854/973	3763/4257

Source: *Cherry Avenue Industrial Building Traffic Analysis* (Urban Crossroads, Inc., 2023)

3.9 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 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 in order to more effectively reduce emissions, accommodate growth, and to minimize any negative fiscal impacts of air pollution control on the economy.

The 2022 AQMP was adopted by SCAQMD's Governing Board on December 2, 2022. In order to attain its goals of reducing smog-forming emissions by 70% beyond existing regulations by 2037, the 2022 AQMP would expand zero-emission regulations across all sectors, including water and space heating as well as for on-road vehicles, construction equipment, and industrial facilities.

The 2022 AQMP will next need to be approved by CARB and will then be submitted to the United States Environmental Protection Agency for review and approval.

Criteria for determining consistency with the AQMP are defined in Chapter 12, Section 12.2 and Section 12.3 of the *1993 CEQA Handbook* (43). These indicators are discussed below:

3.9.1 CONSISTENCY CRITERION NO. 1

Potential to 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 refer 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 localized or regional significance thresholds were exceeded. As evaluated, the Project's localized and regional construction-source emissions would not exceed applicable regional significance threshold and LST thresholds. As such, a less than significant impact is expected.

Operational Impacts – Consistency Criterion 1

As evaluated, the Project would not exceed the applicable regional and localized significance thresholds for operational activity. Therefore, the Project would not conflict with the AQMP according to this criterion.

On the basis of the preceding discussion, the Project is determined to be consistent with the first criterion.

3.9.2 CONSISTENCY CRITERION NO. 2

Potential to 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 Long Beach 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. As

such, when considering that no emissions thresholds will be exceeded, a less than significant impact would result.

Operational Impacts – Consistency Criterion 2

The Project is proposed to consist of a single 304,344 sf speculative industrial building., which is consistent with the site's General Plan land use designation. Since the Project's proposed land uses are consistent with the General Plan and as the Project's construction and operational-source air pollutant emissions would not exceed the regional or localized significance thresholds, the Project is determined to be consistent with the second criterion.

On the basis of the preceding discussion, the Project is determined to be consistent with the second criterion.

AQMP CONSISTENCY CONCLUSION

The Project would be inconsistent with AQMP Criterion No's. 1 and 2, 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 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.

Notwithstanding, based on the analysis presented here, the Project is considered to be inconsistent with applicable AQMP Consistency Criteria.

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 would not exceed the SCAQMD localized significance thresholds during construction. Therefore, sensitive receptors would not be exposed to substantial pollutant concentrations during Project construction.

Additionally, the Project would 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.5th 502, the California Supreme Court held that an Environmental Impact Report's (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.

Most local agencies, including the City of Long Beach, 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 causing 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.

Notwithstanding, this AQIA does evaluate the proposed Project's localized impact to air quality for emissions of CO, NO_X, PM_{10}, and $PM_{2.5}$ by comparing the proposed Project's on-site emissions to the SCAQMD's applicable LST thresholds. The LST analysis above determined that the Project would not result in emissions exceeding SCAQMD's LSTs. 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_X, PM_{10}, and $PM_{2.5}$.

As the Project's emissions would 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.

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 contain 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 in compliance with current solid waste regulations. The proposed Project would also be required to comply with SCAQMD Rule 402 to prevent occurrences of public nuisances. Therefore, odors and other emissions (such as those leading to odors) associated with construction and operations activities of the proposed Project would be less than significant and no mitigation is required (44).

3.12 CUMULATIVE IMPACTS

As previously shown in Table 2-3, the CAAQS designate the Project site as nonattainment for O_3 PM_{10}, and $PM_{2.5}$ while the NAAQS designates the Project site as nonattainment for O_3 and $PM_{2.5}$.

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* (45). 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. Conversely, project-level construction and operational emissions that exceed SCAQMD thresholds would be considered cumulatively considerable.

CONSTRUCTION-SOURCE EMISSION 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. Therefore, proposed Project construction-source emissions would be considered less than significant on a Project-specific and cumulative basis.

OPERATIONAL-SOURCE EMISSION IMPACTS

The Project-specific evaluation of emissions presented in the preceding analysis demonstrates that proposed Project operational-source air pollutant emissions would not result in exceedances of regional thresholds. Therefore, proposed Project operational-source emissions would be considered less than significant on a Project-specific and cumulative basis.

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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 Cherry Avenue Industrial Building. 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

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Master of Science in Environmental Studies
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AEP – Association of Environmental Professionals
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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 1.1:

AIR QUALITY RESPONSE TO COMMENTS

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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 [1]		National Standards [1]		
		Concentration [3]	Method [4]	Primary [5,6]	Secondary [5,6]	Method [7]
Ozone (O_3)[8]	1 Hour	0.09 ppm (180 µg/m³)	Ultraviolet Photometry	—	Same as Primary Standard	Ultraviolet Photometry
	8 Hour	0.070 ppm (137 µg/m³)		0.070 ppm (137 µg/m³)		
Respirable Particulate Matter (PM10)[9]	**24 Hour**	**50 µg/m³**	**Gravimetric or Beta Attenuation**	**150 µg/m³**	**Same as Primary Standard**	**Inertial Separation and Gravimetric Analysis**
	Annual Arithmetic Mean	**20 µg/m³**		—		
Fine Particulate Matter ($PM_{2.5}$)[9]	24 Hour	—	—	35 µg/m³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	12 µg/m³	Gravimetric or Beta Attenuation	12.0 µg/m³	15 µg/m³	
Carbon Monoxide (CO)	**1 Hour**	**20 ppm (23 mg/m³)**	**Non-Dispersive Infrared Photometry (NDIR)**	**35 ppm (40 mg/m³)**	—	**Non-Dispersive Infrared Photometry (NDIR)**
	8 Hour	**9.0 ppm (10 mg/m³)**		**9 ppm (10 mg/m³)**	—	
	8 Hour (Lake Tahoe)	**6 ppm (7 mg/m³)**		—	—	
Nitrogen Dioxide (NO_2)[10]	1 Hour	0.18 ppm (339 µg/m³)	Gas Phase Chemiluminescence	100 ppb (188 µg/m³)	—	Gas Phase Chemiluminescence
	Annual Arithmetic Mean	0.030 ppm (57 µg/m³)		0.053 ppm (100 µg/m³)	Same as Primary Standard	
Sulfur Dioxide (SO_2)[11]	**1 Hour**	**0.25 ppm (655 µg/m³)**	**Ultraviolet Fluorescence**	**75 ppb (196 µg/m³)**	—	**Ultraviolet Fluorescence; Spectrophotometry (Pararosaniline Method)**
	3 Hour	—		—	**0.5 ppm (1300 µg/m³)**	
	24 Hour	**0.04 ppm (105 µg/m³)**		**0.14 ppm (for certain areas)[11]**	—	
	Annual Arithmetic Mean	—		**0.030 ppm (for certain areas)[11]**	—	
Lead[12,13]	30 Day Average	1.5 µg/m³	Atomic Absorption	—	—	High Volume Sampler and Atomic Absorption
	Calendar Quarter	—		1.5 µg/m³ (for certain areas)[12]	Same as Primary Standard	
	Rolling 3-Month Average	—		0.15 µg/m³		
Visibility Reducing Particles[14]	**8 Hour**	**See footnote 14**	**Beta Attenuation and Transmittance through Filter Tape**	**No National Standards**		
Sulfates	24 Hour	25 µg/m³	Ion Chromatography			
Hydrogen Sulfide	**1 Hour**	**0.03 ppm (42 µg/m³)**	**Ultraviolet Fluorescence**			
Vinyl Chloride[12]	24 Hour	0.01 ppm (26 µg/m³)	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 $\mu g/m^3$ 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 $\mu g/m^3$ to 12.0 $\mu g/m^3$. The existing national 24-hour PM2.5 standards (primary and secondary) were retained at 35 $\mu g/m^3$, as was the annual secondary standard of 15 $\mu g/m^3$. The existing 24-hour PM10 standards (primary and secondary) of 150 $\mu g/m^3$ 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_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 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 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 $\mu g/m^3$)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[1]

	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

	N	NA-T	U	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			

[1] 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



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_{10})

	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



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

Table 3
California Ambient Air Quality Standards Area Designations for Fine Particulate Matter ($PM_{2.5}$)

	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[1]	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[2]	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		

[1] California Code of Regulations, title 17, section 60200(c)

[2] California Code of Regulations, title 17, section 60200(a)

Figure 4


2021
Area Designations for State
Ambient Air Quality Standards
CARBON MONOXIDE
N
0 50 100 150 200
Miles
Del Norte
Siskiyou
Modoc
NORTHEAST PLATEAU
NORTH COAST
Trinity
Shasta
Lassen
Humboldt
Tehama
SACRAMENTO VALLEY
Plumas
Mendocino
Glenn
Butte
Sierra
MOUNTAIN COUNTIES
Nevada
LAKE COUNTY
Colusa
Yuba
Lake
Sutter
Placer
LAKE TAHOE
Yolo
El Dorado
Sonoma
Napa
Sac
Amador
Alpine
SAN FRANCISCO BAY AREA
Solano
Calaveras
Marin
Contra Costa
San Joaquin
Tuolumne
Mono
GREAT BASIN VALLEYS
San Francisco
Alameda
Stanislaus
Mariposa
San Mateo
Santa Clara
Merced
Madera
Santa Cruz
San Benito
SAN JOAQUIN VALLEY
Fresno
NORTH CENTRAL COAST
Kings
Tulare
Inyo
Monterey
San Luis Obispo
Kern
SOUTH CENTRAL COAST
Santa Barbara
San Bernardino
Ventura
Los Angeles
MOJAVE DESERT
Riverside
Orange
SOUTH COAST
SALTON SEA
San Diego
Imperial
SAN DIEGO
Unclassified
Attainment
Air Basin
County
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
GREAT BASIN VALLEYS AIR BASIN				
Alpine County			U	
Inyo County				A
Mono County				A
LAKE COUNTY AIR BASIN				A
LAKE TAHOE AIR BASIN				A
MOJAVE DESERT AIR BASIN				
Kern County (portion)			U	
Los Angeles County (portion)				A
Riverside County (portion)			U	
San Bernardino County (portion)				A
MOUNTAIN COUNTIES AIR BASIN				
Amador County			U	
Calaveras County			U	
El Dorado County (portion)			U	
Mariposa County			U	
Nevada County			U	
Placer County (portion)			U	
Plumas County				A
Sierra County			U	
Tuolumne County				A
NORTH CENTRAL COAST AIR BASIN				
Monterey County				A
San Benito County			U	
Santa Cruz County			U	
NORTH COAST AIR BASIN				
Del Norte County			U	
Humboldt County				A
Mendocino County				A
Sonoma County (portion)			U	
Trinity County			U	
NORTHEAST PLATEAU AIR BASIN			U	

	N	NA-T	U	A
SACRAMENTO VALLEY AIR BASIN				
Butte County				A
Colusa County			U	
Glenn County			U	
Placer County (portion)				A
Sacramento County				A
Shasta County			U	
Solano County (portion)				A
Sutter County				A
Tehama County			U	
Yolo County				A
Yuba County			U	
SALTON SEA AIR BASIN				A
SAN DIEGO AIR BASIN				A
SAN FRANCISCO BAY AREA AIR BASIN				A
SAN JOAQUIN VALLEY AIR BASIN				
Fresno County				A
Kern County (portion)				A
Kings County			U	
Madera County			U	
Merced County			U	
San Joaquin County				A
Stanislaus County				A
Tulare County				A
SOUTH CENTRAL COAST AIR BASIN				A
SOUTH COAST AIR BASIN				A

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

Figure 5



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

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

	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
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
N
0 50 100 150 200
Miles
Del Norte
Siskiyou
Modoc
NORTHEAST PLATEAU
NORTH COAST
Trinity
Shasta
Lassen
Humboldt
Tehama
SACRAMENTO VALLEY
Plumas
Mendocino
Glenn
Butte
Sierra
MOUNTAIN COUNTIES
Nevada
LAKE COUNTY
Colusa
Yuba
Lake
Sutter
Placer
LAKE TAHOE
Yolo
El Dorado
Sonoma
Napa
Sac
Amador
Alpine
SAN FRANCISCO BAY AREA
Solano
Calaveras
Marin
Contra Costa
San Joaquin
Tuolumne
Mono
GREAT BASIN VALLEYS
San Francisco
Alameda
Stanislaus
Mariposa
San Mateo
Santa Clara
Merced
Madera
Santa Cruz
San Benito
Fresno
SAN JOAQUIN VALLEY
NORTH CENTRAL COAST
Kings
Tulare
Inyo
Monterey
San Luis Obispo
Kern
SOUTH CENTRAL COAST
Santa Barbara
San Bernardino
Ventura
Los Angeles
MOJAVE DESERT
Riverside
Orange
SOUTH COAST
SALTON SEA
San Diego
Imperial
SAN DIEGO
Attainment
Air Basin
County
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
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	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

* 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
N
0 50 100 150 200
Miles
Del Norte
Siskiyou
Modoc
NORTHEAST PLATEAU
NORTH COAST
Trinity
Shasta
Lassen
Humboldt
Tehama
SACRAMENTO VALLEY
Plumas
Mendocino
Glenn
Butte
Sierra
MOUNTAIN COUNTIES
Nevada
LAKE COUNTY
Colusa
Yuba
Lake
Sutter
Placer
LAKE TAHOE
Yolo
El Dorado
Sonoma
Napa
Sac
Amador
Alpine
SAN FRANCISCO BAY AREA
Solano
Calaveras
Marin
Contra Costa
San Joaquin
Tuolumne
Mono
GREAT BASIN VALLEYS
San Francisco
Alameda
Stanislaus
Mariposa
San Mateo
Santa Clara
Merced
Madera
Santa Cruz
San Benito
SAN JOAQUIN VALLEY
Fresno
NORTH CENTRAL COAST
Kings
Tulare
Inyo
Monterey
San Luis Obispo
Kern
SOUTH CENTRAL COAST
Santa Barbara
San Bernardino
Ventura
Los Angeles
MOJAVE DESERT
Riverside
Orange
SOUTH COAST
SALTON SEA
San Diego
Imperial
SAN DIEGO
Attainment
Air Basin
County
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


2021
Area Designations for State
Ambient Air Quality Standards
LEAD
N
0 50 100 150 200
Miles
Del Norte
Siskiyou
Modoc
NORTHEAST PLATEAU
NORTH COAST
Trinity
Shasta
Lassen
Humboldt
Tehama
SACRAMENTO VALLEY
Plumas
Mendocino
Glenn
Butte
Sierra
Nevada
MOUNTAIN COUNTIES
LAKE COUNTY
Lake
Colusa
Yuba
Sutter
Placer
LAKE TAHOE
Yolo
El Dorado
Sonoma
Napa
Sac
Amador
Alpine
SAN FRANCISCO BAY AREA
Solano
Calaveras
Marin
Contra Costa
San Joaquin
Tuolumne
Mono
GREAT BASIN VALLEYS
San Francisco
Alameda
Stanislaus
Mariposa
San Mateo
Santa Clara
Merced
Madera
Santa Cruz
SAN JOAQUIN VALLEY
San Benito
Fresno
Inyo
NORTH CENTRAL COAST
Kings
Tulare
Monterey
San Luis Obispo
Kern
SOUTH CENTRAL COAST
Santa Barbara
San Bernardino
Ventura
Los Angeles
MOJAVE DESERT
Riverside
Orange
SOUTH COAST
SALTON SEA
San Diego
Imperial
SAN DIEGO
Attainment
Air Basin
County
Last Updated: October 2021
Air Quality Planning and Science Division, CARB

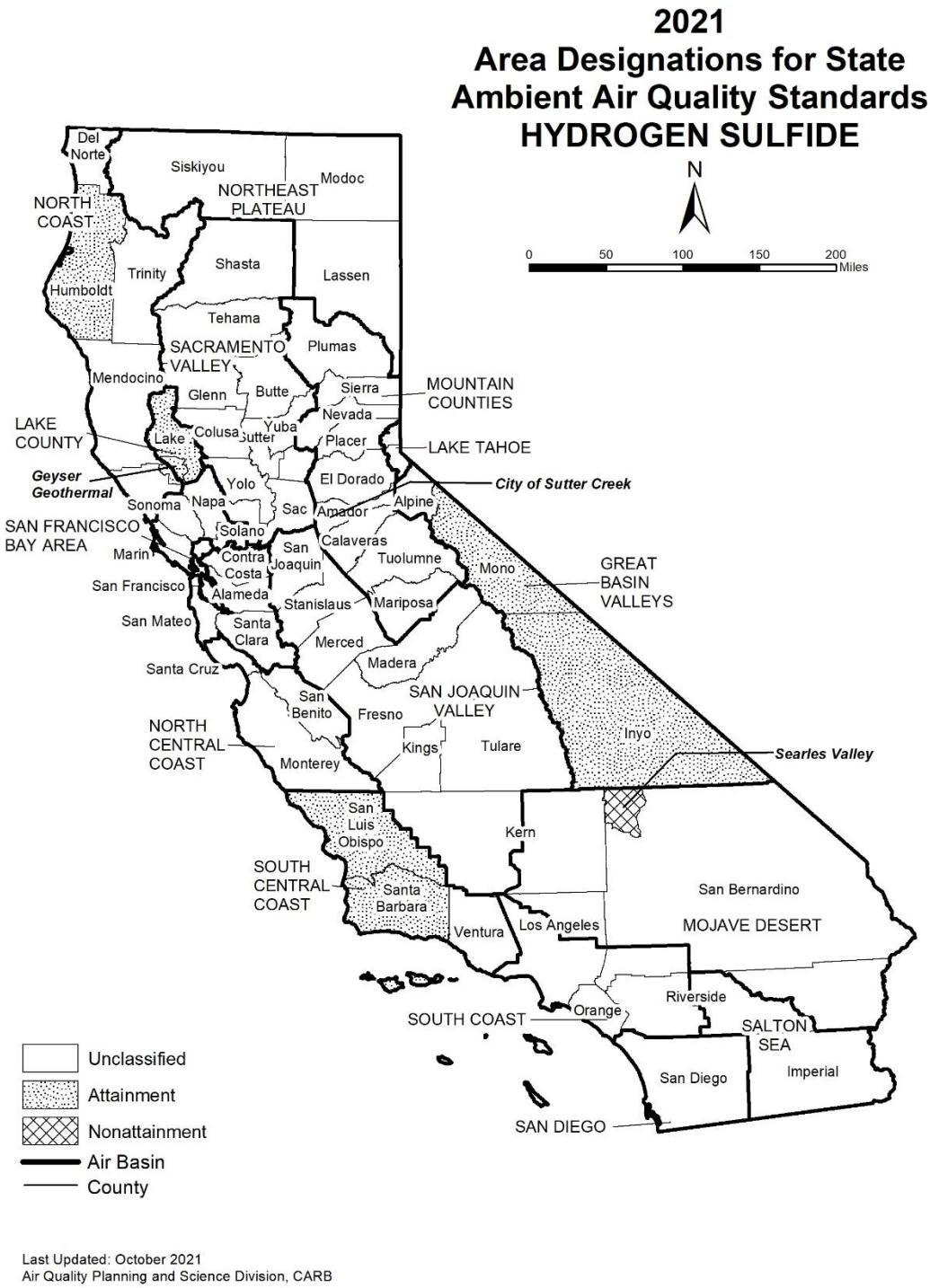
Table 8
California Ambient Air Quality Standards Area Designations for Lead (particulate)*

	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



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[1]	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)				
- Geyser Geothermal Area[2]				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

[1] 52 Federal Register 29384 (August 7, 1987)

[2] California Code of Regulations, title 17, section 60200(d)

Figure 10

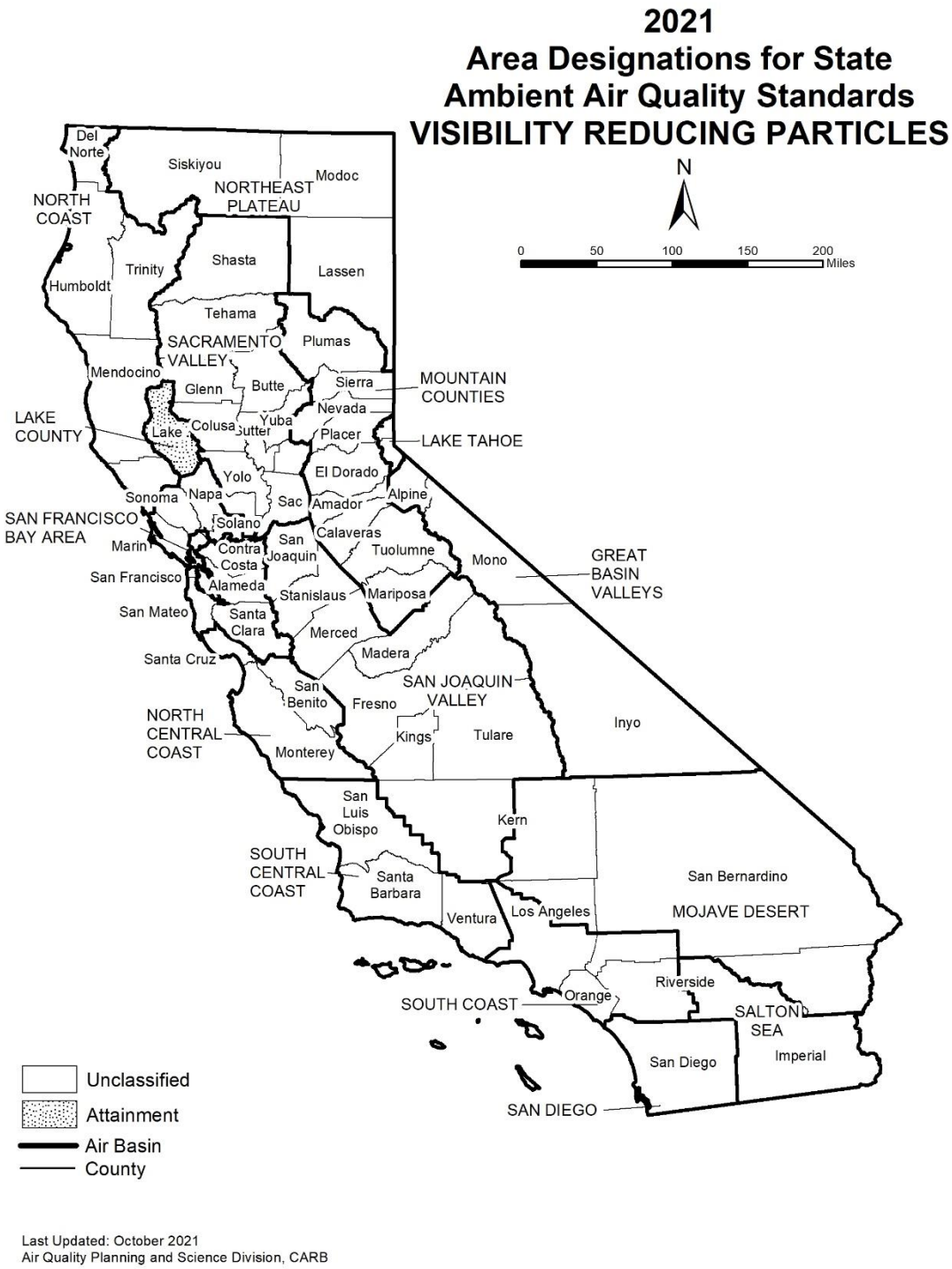

2021
Area Designations for State
Ambient Air Quality Standards
VISIBILITY REDUCING PARTICLES
N
0 50 100 150 200
Miles
Del Norte
Siskiyou
Modoc
NORTHEAST PLATEAU
NORTH COAST
Trinity
Shasta
Lassen
Humboldt
Tehama
SACRAMENTO VALLEY
Plumas
Mendocino
Glenn
Butte
Sierra
MOUNTAIN COUNTIES
Nevada
LAKE COUNTY
Colusa
Yuba
Lake
Sutter
Placer
LAKE TAHOE
Yolo
El Dorado
Sonoma
Napa
Sac
Amador
Alpine
SAN FRANCISCO BAY AREA
Solano
Calaveras
Marin
Contra Costa
San Joaquin
Tuolumne
Mono
GREAT BASIN VALLEYS
San Francisco
Alameda
Stanislaus
Mariposa
San Mateo
Santa Clara
Merced
Madera
Santa Cruz
SAN JOAQUIN VALLEY
San Benito
Fresno
Inyo
NORTH CENTRAL COAST
Kings
Tulare
Monterey
San Luis Obispo
Kern
SOUTH CENTRAL COAST
Santa Barbara
San Bernardino
Ventura
Los Angeles
MOJAVE DESERT
Riverside
Orange
SOUTH COAST
SALTON SEA
San Diego
Imperial
SAN DIEGO
Unclassified
Attainment
Air Basin
County
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_{10}). The U.S. EPA uses three categories to designate areas with respect to PM_{10}:

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

Ozone, Fine Suspended Particulate Matter ($PM_{2.5}$), Carbon Monoxide (CO), and Nitrogen Dioxide (NO_2). 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 $PM_{2.5}$ standard of 12.0 µg/m^3. 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^3 as well as the 24-hour standard of 35 µg/m^3, revised in 2006.

On January 22, 2010, the U.S. EPA established a new national 1-hour NO_2 standard of 100 parts per billion (ppb) and retained the annual average standard of 53 ppb. Designations for the primary NO_2 standard became effective on February 29, 2012. All areas of California meet this standard.

Sulfur Dioxide (SO_2). 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).

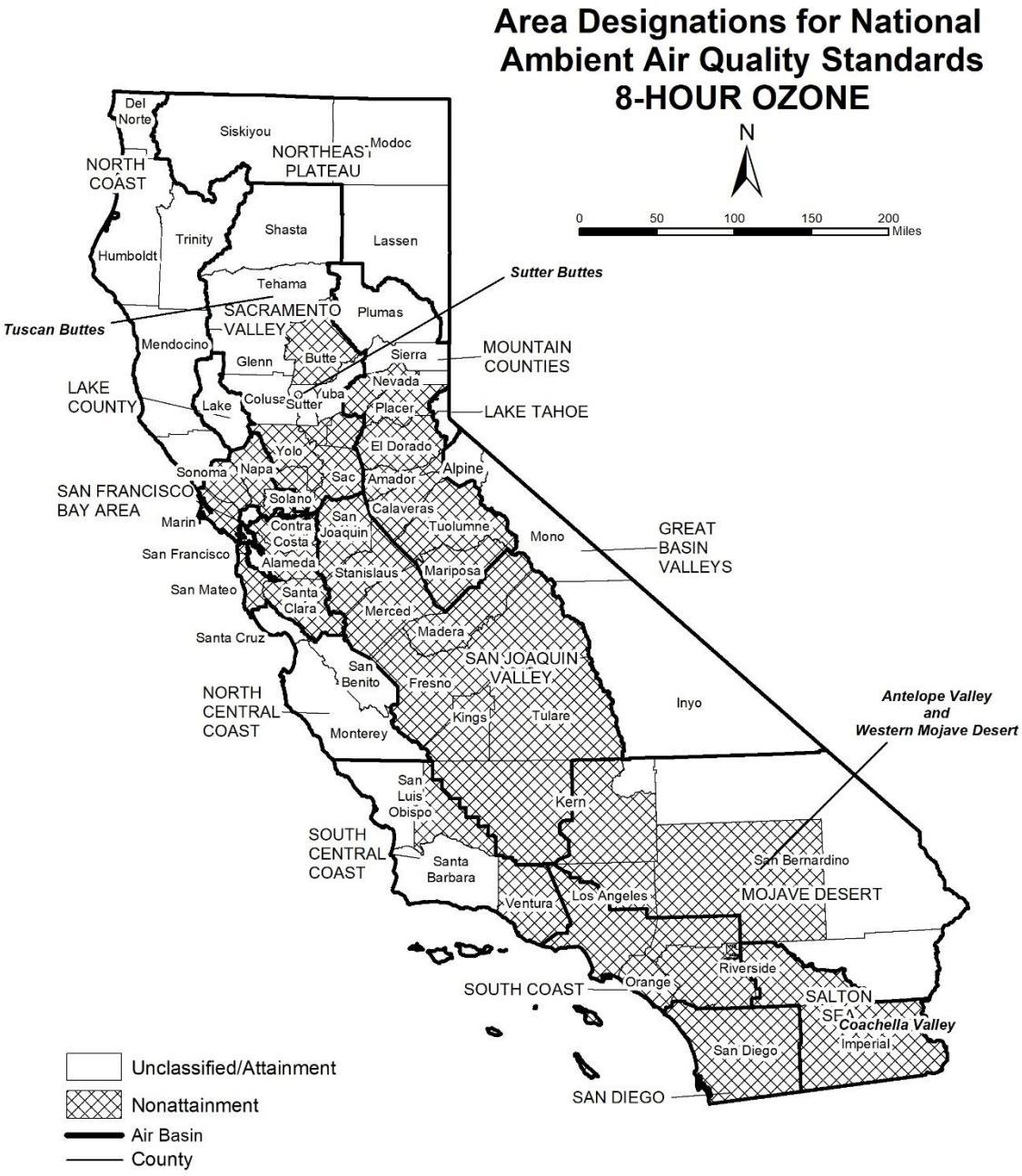
On June 2, 2010, the U.S. EPA established a new primary 1-hour SO_2 standard of 75 parts per billion (ppb). At the same time, U.S. EPA revoked the 24-hour and annual average standards. Area designations for the 1-hour SO_2 standard were finalized on December 21, 2017 and are reflected in the area designations map.

Lead (particulate). The U.S. EPA promulgated a new rolling 3-month average lead standard in October 2008 of 0.15 µg/m^3. 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*

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)[1]	N	
Mariposa County	N	
Nevada County		
- Western Nevada County	N	
- Remainder of County		U/A
Placer County (portion)[1]	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[1]	N	
Shasta County		U/A
Sutter County		
- Sutter Buttes	N	
- Southern portion of Sutter County[1]	N	
- Remainder of Sutter County		U/A
Tehama County		
- Tuscan Buttes	N	
- Remainder of Tehama County		U/A

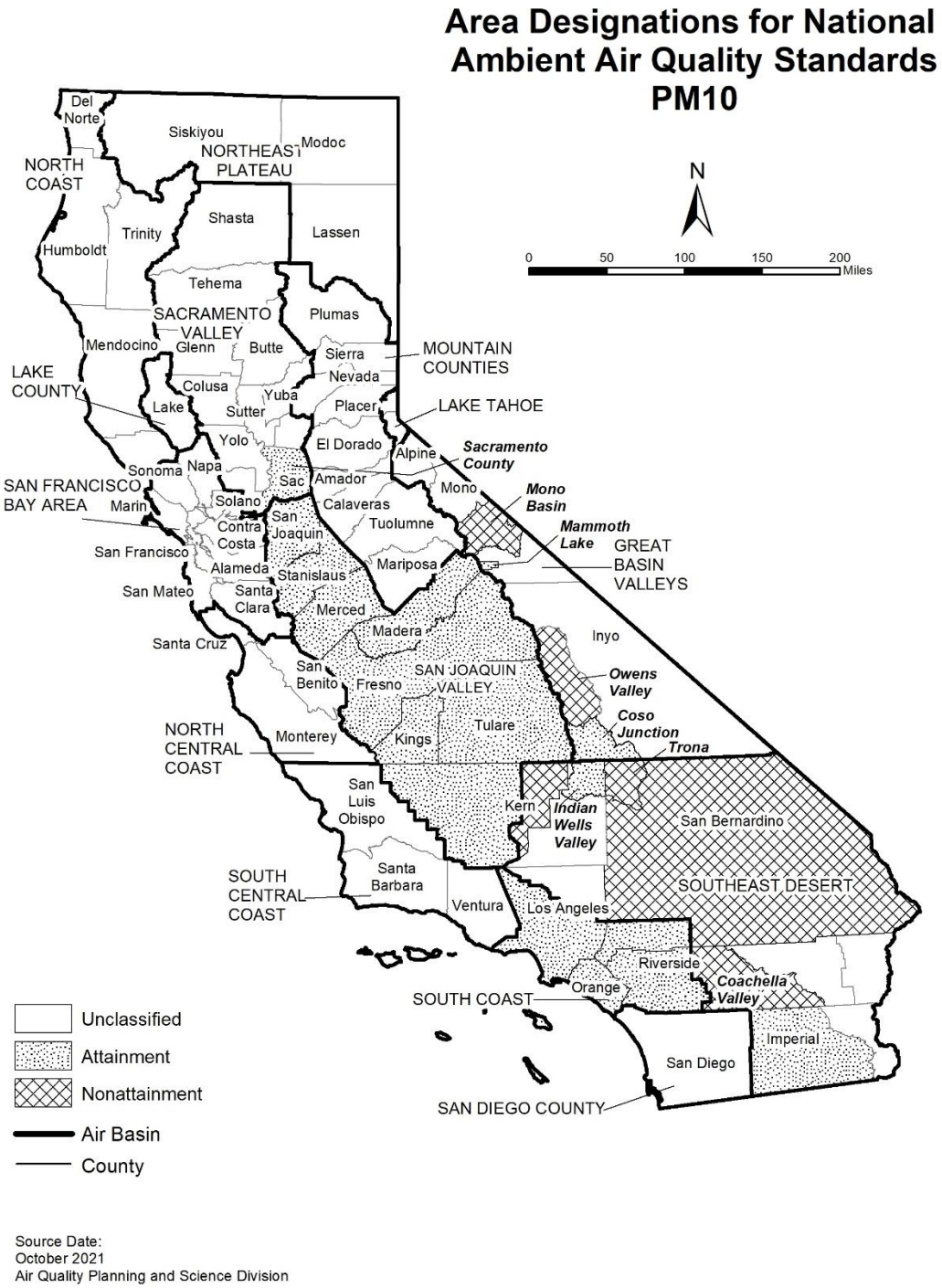
	N	U/A
SACRAMENTO VALLEY AIR BASIN (cont.)		
Yolo County[1]	N	
Yuba County		U/A
SAN DIEGO COUNTY	N	
SAN FRANCISCO BAY AREA AIR BASIN	N	
SAN JOAQUIN VALLEY AIR BASIN	N	
SOUTH CENTRAL COAST AIR BASIN[2]		
San Luis Obispo County		
- Eastern San Luis Obispo County	N	
- Remainder of County		U/A
Santa Barbara County		U/A
Ventura County		
- Area excluding Anacapa and San Nicolas Islands	N	
- Channel Islands[2]		U/A
SOUTH COAST AIR BASIN[2]	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.

[1] 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.

[2] 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



Source Date:
October 2021
Air Quality Planning and Science Division

Table 12
National Ambient Air Quality Standards Area Designations for Suspended Particulate Matter (PM_{10})*

	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[1]			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[2]			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.

[1] Air quality in Sacramento County meets the national PM_{10} standards. The request for redesignation to attainment was approved by U.S. EPA in September 2013.

[2] 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

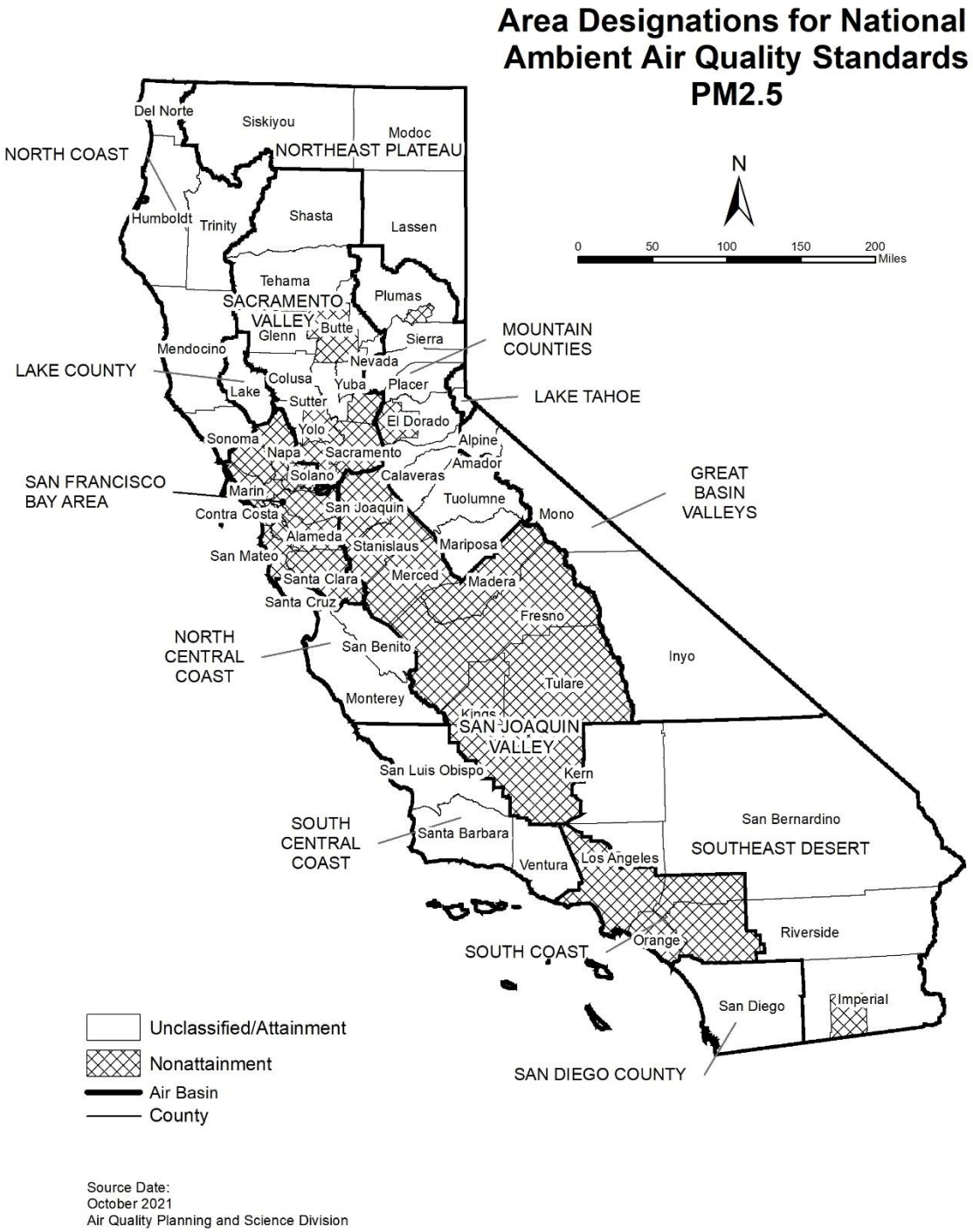

Area Designations for National Ambient Air Quality Standards PM2.5
N
0 50 100 150 200 Miles
Del Norte
Siskiyou
Modoc
NORTH COAST
NORTHEAST PLATEAU
Humboldt
Trinity
Shasta
Lassen
Tehama
Plumas
SACRAMENTO VALLEY
Glenn
Butte
Sierra
MOUNTAIN COUNTIES
Mendocino
Nevada
LAKE COUNTY
Colusa
Yuba
Placer
Lake
Sutter
LAKE TAHOE
Yolo
El Dorado
Sonoma
Alpine
Napa
Sacramento
Amador
Solano
Calaveras
SAN FRANCISCO BAY AREA
Marin
Tuolumne
GREAT BASIN VALLEYS
Contra Costa
San Joaquin
Mono
Alameda
Stanislaus
Mariposa
San Mateo
Santa Clara
Merced
Madera
Santa Cruz
Fresno
NORTH CENTRAL COAST
San Benito
Inyo
Tulare
Monterey
Kings
SAN JOAQUIN VALLEY
San Luis Obispo
Kern
San Bernardino
SOUTH CENTRAL COAST
Santa Barbara
SOUTHEAST DESERT
Ventura
Los Angeles
Riverside
Orange
SOUTH COAST
San Diego
Imperial
SAN DIEGO COUNTY
Unclassified/Attainment
Nonattainment
Air Basin
County
Source Date:
October 2021
Air Quality Planning and Science Division

Table 13
National Ambient Air Quality Standards Area Designations for Fine Particulate Matter ($PM_{2.5}$)

	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[1]	N	
Remainder of Air Basin		U/A

	N	U/A
SAN DIEGO COUNTY		U/A
SAN FRANCISCO BAY AREA AIR BASIN[2]	N	
SAN JOAQUIN VALLEY AIR BASIN	N	
SOUTH CENTRAL COAST AIR BASIN		U/A
SOUTH COAST AIR BASIN[3]	N	
SOUTHEAST DESERT AIR BASIN		
Imperial County (portion)[4]	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 $PM_{2.5}$ standard as well as the 1997 and 2012 $PM_{2.5}$ annual standards.

[1] 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 $PM_{2.5}$ standards. A Determination of Attainment for the 2006 24-hour $PM_{2.5}$ standard was made by U.S. EPA in June 2017.

[2] Air quality in this area meets the national $PM_{2.5}$ standards. A Determination of Attainment for the 2006 24-hour $PM_{2.5}$ standard was made by U.S. EPA in June 2017.

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

[4] 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 $PM_{2.5}$ standards. A Determination of Attainment for the 2006 24-hour $PM_{2.5}$ standard was made by U.S. EPA in June 2017.

Figure 14


Area Designations for National Ambient Air Quality Standards
CARBON MONOXIDE
N
0 50 100 150 200 Miles
Del Norte
Siskiyou
Modoc
NORTHEAST PLATEAU
NORTH COAST
Shasta
Lassen
Trinity
Humboldt
Tehama
SACRAMENTO VALLEY
Plumas
Mendocino
Glenn
Butte
Sierra
MOUNTAIN COUNTIES
Nevada
Colusa
Lake
Sutter
Yuba
Placer
LAKE TAHOE
LAKE COUNTY
Yolo
El Dorado
Napa
Alpine
Sonoma
Sac
Amador
SAN FRANCISCO BAY AREA
Solano
Calaveras
Marin
Contra Costa
San Joaquin
Tuolumne
Mono
GREAT BASIN VALLEYS
San Francisco
Alameda
Stanislaus
Mariposa
San Mateo
Santa Clara
Merced
Santa Cruz
Madera
SAN JOAQUIN VALLEY
San Benito
Fresno
NORTH CENTRAL COAST
Tulare
Inyo
Monterey
Kings
San Luis Obispo
Kern
SOUTH CENTRAL COAST
SOUTHEAST DESERT
Santa Barbara
Ventura
Los Angeles
San Bernardino
Riverside
Orange
SOUTH COAST
San Diego
Imperial
SAN DIEGO COUNTY
Unclassified/Attainment
Air Basin
County
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
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 15


Area Designations for National Ambient Air Quality Standards
NITROGEN DIOXIDE
N
0 50 100 150 200 Miles
Del Norte
Siskiyou
Modoc
NORTHEAST PLATEAU
NORTH COAST
Trinity
Shasta
Lassen
Humboldt
Tehema
Plumas
SACRAMENTO VALLEY
Mendocino
Glenn
Butte
Sierra
Nevada
MOUNTAIN COUNTIES
Colusa
Yuba
Placer
LAKE COUNTY
Lake
Sutter
LAKE TAHOE
Yolo
El Dorado
Napa
Alpine
Sonoma
Sac
Amador
SAN FRANCISCO BAY AREA
Solano
Marin
Calaveras
Contra Costa
San Joaquin
Tuolumne
Mono
GREAT BASIN VALLEYS
San Francisco
Alameda
Stanislaus
Mariposa
San Mateo
Santa Clara
Merced
Santa Cruz
Madera
SAN JOAQUIN VALLEY
San Benito
Fresno
NORTH CENTRAL COAST
Inyo
Tulare
Monterey
Kings
San Luis Obispo
Kern
SOUTH CENTRAL COAST
Santa Barbara
SOUTHEAST DESERT
Los Angeles
San Bernardino
Ventura
Riverside
Orange
SOUTH COAST
San Diego
Imperial
SAN DIEGO COUNTY
Unclassified/Attainment
Air Basin
County
Source Date:
October 2021
Air Quality Planning and Science Division

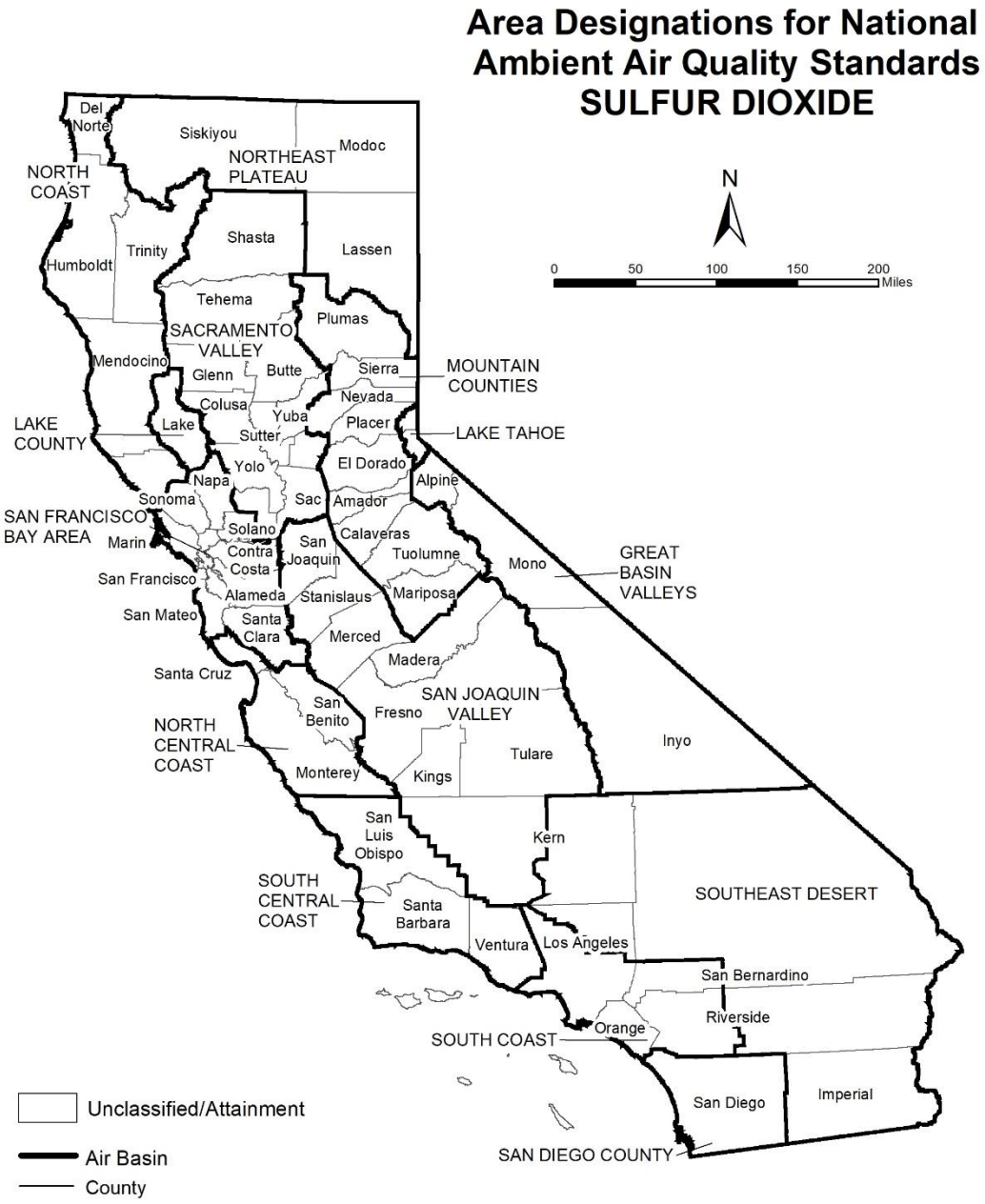
Table 15
National Ambient Air Quality Standards Area Designations for Nitrogen Dioxide*

	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



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[1]		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_2 standard of 75 ppb.

[1] 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
N
0 50 100 150 200
Miles
Del Norte
Siskiyou
Modoc
NORTHEAST PLATEAU
NORTH COAST
Trinity
Shasta
Lassen
Humboldt
Tehama
SACRAMENTO VALLEY
Plumas
Mendocino
Glenn
Butte
Sierra
MOUNTAIN COUNTIES
Nevada
Colusa
Lake
Sutter
Yuba
Placer
LAKE TAHOE
LAKE COUNTY
Yolo
El Dorado
Napa
Alpine
Sonoma
Sac
Amador
SAN FRANCISCO BAY AREA
Solano
Calaveras
Marin
Contra Costa
San Joaquin
Tuolumne
Mono
GREAT BASIN VALLEYS
San Francisco
Alameda
Stanislaus
Mariposa
San Mateo
Santa Clara
Merced
Santa Cruz
Madera
SAN JOAQUIN VALLEY
San Benito
Fresno
NORTH CENTRAL COAST
Inyo
Tulare
Monterey
Kings
San Luis Obispo
Kern
SOUTH CENTRAL COAST
SOUTHEAST DESERT
Santa Barbara
Ventura
Los Angeles
San Bernardino
Riverside
Orange
SOUTH COAST
San Diego
Imperial
SAN DIEGO COUNTY
Unclassified/Attainment
Nonattainment
Air Basin
County
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)[1]	N	
Remainder of Air Basin		U/A
SOUTHEAST DESERT AIR BASIN		U/A

[1] Portion of County in Air Basin, not including Channel Islands

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APPENDIX 3.1:

CALEEMOD PROJECT CONSTRUCTION EMISSIONS MODEL OUTPUTS

Cherry Avenue Warehouse (Construction) Detailed Report

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5.3.1. Unmitigated

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Cherry Avenue Warehouse (Construction)
Construction Start Date	7/25/2024
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.30
Precipitation (days)	17.4
Location	5900 Cherry Ave, Long Beach, CA 90805, USA
County	Los Angeles-South Coast
City	Long Beach
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4714
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Long Beach Gas & Oil
App Version	2022.1.1.21

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
Manufacturing	304	1000sqft	6.99	304,344	0.00	—	—	—

Parking Lot	338	Space	1.19	0.00	0.00	—	—	—
Other Asphalt Surfaces	261	1000sqft	5.99	0.00	0.00	—	—	—

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.	39.7	37.9	53.4	85.8	0.17	2.25	18.0	20.1	2.07	3.30	5.13	—	23,563	23,563	1.18	2.80	40.6	24,467
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.31	4.19	45.7	35.1	0.12	1.73	4.77	6.51	1.60	1.57	3.17	—	15,132	15,132	0.67	1.23	0.48	15,517
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.81	5.44	12.3	15.5	0.03	0.49	2.08	2.58	0.45	0.51	0.95	—	4,164	4,164	0.19	0.34	2.51	4,274
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.70	0.99	2.24	2.83	0.01	0.09	0.38	0.47	0.08	0.09	0.17	—	689	689	0.03	0.06	0.42	708

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	39.7	37.9	53.4	85.8	0.17	2.25	18.0	20.1	2.07	3.30	5.13	—	23,563	23,563	1.18	2.80	40.6	24,467
2025	4.52	31.7	30.3	47.7	0.07	1.22	2.52	3.73	1.11	0.60	1.72	—	9,832	9,832	0.40	0.30	11.7	9,942
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	5.31	4.19	45.7	35.1	0.12	1.73	4.77	6.51	1.60	1.57	3.17	—	15,132	15,132	0.67	1.23	0.48	15,517
2025	3.37	2.82	22.8	33.5	0.06	0.87	1.99	2.86	0.79	0.48	1.27	—	7,668	7,668	0.32	0.27	0.25	7,756
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	3.81	3.49	12.3	14.5	0.03	0.49	2.08	2.58	0.45	0.51	0.95	—	4,164	4,164	0.19	0.34	2.51	4,274
2025	1.53	5.44	10.3	15.5	0.02	0.40	0.90	1.30	0.36	0.22	0.58	—	3,460	3,460	0.14	0.12	1.90	3,500
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.70	0.64	2.24	2.64	0.01	0.09	0.38	0.47	0.08	0.09	0.17	—	689	689	0.03	0.06	0.42	708
2025	0.28	0.99	1.88	2.83	< 0.005	0.07	0.16	0.24	0.07	0.04	0.11	—	573	573	0.02	0.02	0.31	579

3. Construction Emissions Details

3.1. Demolition (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	38.3	37.5	32.0	75.9	0.06	1.87	—	1.87	1.63	—	1.63	—	6,163	6,163	0.25	0.05	—	6,184

Demolitio	—	—	—	—	—	—	13.2	13.2	—	2.00	2.00	—	—	—	—	—	—	—
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.63	2.57	2.19	5.20	< 0.005	0.13	—	0.13	0.11	—	0.11	—	422	422	0.02	< 0.005	—	424
Demolitio n	—	—	—	—	—	—	0.90	0.90	—	0.14	0.14	—	—	—	—	—	—	—
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	0.48	0.47	0.40	0.95	< 0.005	0.02	—	0.02	0.02	—	0.02	—	69.9	69.9	< 0.005	< 0.005	—	70.1
Demolitio n	—	—	—	—	—	—	0.16	0.16	—	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	0.11	0.10	0.11	1.70	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	318	318	0.01	0.01	1.25	322
Vendor	0.01	< 0.005	0.19	0.09	< 0.005	< 0.005	0.04	0.05	< 0.005	0.01	0.01	—	161	161	0.01	0.02	0.44	169
Hauling	1.29	0.37	21.2	8.15	0.11	0.21	4.45	4.66	0.21	1.22	1.43	—	16,921	16,921	0.91	2.71	38.9	17,791
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	20.9	20.9	< 0.005	< 0.005	0.04	21.2
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.1	11.1	< 0.005	< 0.005	0.01	11.5
Hauling	0.09	0.02	1.53	0.55	0.01	0.01	0.30	0.32	0.01	0.08	0.10	—	1,159	1,159	0.06	0.19	1.15	1,217
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.47	3.47	< 0.005	< 0.005	0.01	3.51
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.83	1.83	< 0.005	< 0.005	< 0.005	1.91
Hauling	0.02	< 0.005	0.28	0.10	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	192	192	0.01	0.03	0.19	202

3.3. 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	5.35	4.49	42.5	35.3	0.05	2.25	—	2.25	2.07	—	2.07	—	5,529	5,529	0.22	0.04	—	5,548
Dust From Material Movement	—	—	—	—	—	—	5.66	5.66	—	2.69	2.69	—	—	—	—	—	—	—
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	0.15	0.12	1.16	0.97	< 0.005	0.06	—	0.06	0.06	—	0.06	—	151	151	0.01	< 0.005	—	152

Dust From Material Movement	—	—	—	—	—	—	0.16	0.16	—	0.07	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.21	0.18	< 0.005	0.01	—	0.01	0.01	—	0.01	—	25.1	25.1	< 0.005	< 0.005	—	25.2
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	0.09	0.08	0.08	1.32	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	247	247	0.01	0.01	0.97	251
Vendor	0.01	< 0.005	0.08	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	64.5	64.5	< 0.005	0.01	0.17	67.4
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.51	6.51	< 0.005	< 0.005	0.01	6.60
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.77	1.77	< 0.005	< 0.005	< 0.005	1.84
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	< 0.005	< 0.005	—	1.08	1.08	< 0.005	< 0.005	< 0.005	1.09
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	0.31

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 (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	4.73	3.97	37.0	30.9	0.07	1.64	—	1.64	1.51	—	1.51	—	7,554	7,554	0.31	0.06	—	7,580
Dust From Material Movement	—	—	—	—	—	—	2.53	2.53	—	0.97	0.97	—	—	—	—	—	—	—
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	4.73	3.97	37.0	30.9	0.07	1.64	—	1.64	1.51	—	1.51	—	7,554	7,554	0.31	0.06	—	7,580
Dust From Material Movement	—	—	—	—	—	—	2.53	2.53	—	0.97	0.97	—	—	—	—	—	—	—
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	0.45	0.38	3.55	2.96	0.01	0.16	—	0.16	0.14	—	0.14	—	724	724	0.03	0.01	—	727

Dust From Material Movement	—	—	—	—	—	—	0.24	0.24	—	0.09	0.09	—	—	—	—	—	—	—
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	0.07	0.65	0.54	< 0.005	0.03	—	0.03	0.03	—	0.03	—	120	120	< 0.005	< 0.005	—	120
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	0.11	0.10	0.11	1.70	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	318	318	0.01	0.01	1.25	322
Vendor	0.02	0.01	0.27	0.13	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	226	226	0.01	0.03	0.61	236
Hauling	0.45	0.11	8.03	2.75	0.05	0.09	1.88	1.97	0.09	0.52	0.61	—	7,050	7,050	0.34	1.13	16.5	7,412
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.13	1.43	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	301	301	0.01	0.01	0.03	305
Vendor	0.02	0.01	0.28	0.13	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	226	226	0.01	0.03	0.02	235
Hauling	0.45	0.11	8.32	2.72	0.05	0.09	1.88	1.97	0.09	0.52	0.61	—	7,051	7,051	0.34	1.13	0.43	7,397
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.14	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	29.3	29.3	< 0.005	< 0.005	0.05	29.7
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	21.7	21.7	< 0.005	< 0.005	0.03	22.6
Hauling	0.04	0.01	0.81	0.26	< 0.005	0.01	0.18	0.19	0.01	0.05	0.06	—	676	676	0.03	0.11	0.68	710

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.85	4.85	< 0.005	< 0.005	0.01	4.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.59	3.59	< 0.005	< 0.005	< 0.005	3.74
Hauling	0.01	< 0.005	0.15	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	112	112	0.01	0.02	0.11	118

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.86	2.39	22.3	25.5	0.05	0.98	—	0.98	0.90	—	0.90	—	4,818	4,818	0.20	0.04	—	4,834
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	0.35	0.29	2.71	3.09	0.01	0.12	—	0.12	0.11	—	0.11	—	585	585	0.02	< 0.005	—	587
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	0.06	0.05	0.49	0.56	< 0.005	0.02	—	0.02	0.02	—	0.02	—	96.8	96.8	< 0.005	< 0.005	—	97.1
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	0.63	0.57	0.72	8.15	0.00	0.00	1.67	1.67	0.00	0.39	0.39	—	1,711	1,711	0.08	0.06	0.18	1,732
Vendor	0.09	0.04	1.46	0.71	0.01	0.02	0.32	0.33	0.02	0.09	0.10	—	1,194	1,194	0.05	0.16	0.08	1,245
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	0.08	0.07	0.09	1.04	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	211	211	0.01	0.01	0.37	214
Vendor	0.01	< 0.005	0.18	0.08	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	145	145	0.01	0.02	0.17	151
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	0.02	0.19	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	34.9	34.9	< 0.005	< 0.005	0.06	35.4
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	24.0	24.0	< 0.005	< 0.005	0.03	25.0
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

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	2.68	2.24	20.8	25.3	0.05	0.85	—	0.85	0.78	—	0.78	—	4,818	4,818	0.20	0.04	—	4,834
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	2.68	2.24	20.8	25.3	0.05	0.85	—	0.85	0.78	—	0.78	—	4,818	4,818	0.20	0.04	—	4,834
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	1.14	0.96	8.87	10.8	0.02	0.36	—	0.36	0.33	—	0.33	—	2,055	2,055	0.08	0.02	—	2,062
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	0.21	0.17	1.62	1.97	< 0.005	0.07	—	0.07	0.06	—	0.06	—	340	340	0.01	< 0.005	—	341
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	0.61	0.55	0.55	8.89	0.00	0.00	1.67	1.67	0.00	0.39	0.39	—	1,767	1,767	0.07	0.06	6.47	1,794
Vendor	0.08	0.03	1.33	0.65	0.01	0.02	0.32	0.33	0.01	0.09	0.10	—	1,174	1,174	0.05	0.16	3.21	1,227
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	0.61	0.54	0.61	7.54	0.00	0.00	1.67	1.67	0.00	0.39	0.39	—	1,675	1,675	0.08	0.06	0.17	1,696
Vendor	0.08	0.03	1.39	0.66	0.01	0.02	0.32	0.33	0.01	0.09	0.10	—	1,174	1,174	0.05	0.16	0.08	1,225
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	0.26	0.23	0.28	3.38	0.00	0.00	0.70	0.70	0.00	0.17	0.17	—	725	725	0.03	0.03	1.19	735
Vendor	0.04	0.01	0.60	0.28	< 0.005	0.01	0.13	0.14	< 0.005	0.04	0.04	—	501	501	0.02	0.07	0.59	523
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	0.05	0.04	0.05	0.62	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	120	120	0.01	< 0.005	0.20	122
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	82.9	82.9	< 0.005	0.01	0.10	86.6
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

3.11. 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	0.95	0.80	7.45	9.98	0.01	0.35	—	0.35	0.32	—	0.32	—	1,511	1,511	0.06	0.01	—	1,517
Paving	—	0.70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.07	0.06	0.55	0.74	< 0.005	0.03	—	0.03	0.02	—	0.02	—	112	112	< 0.005	< 0.005	—	112
Paving	—	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.10	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	18.5	18.5	< 0.005	< 0.005	—	18.6
Paving	—	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	0.07	0.06	0.06	1.04	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	207	207	0.01	0.01	0.76	210
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.01	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	14.8	14.8	< 0.005	< 0.005	0.02	15.0
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	< 0.005	< 0.005	—	2.44	2.44	< 0.005	< 0.005	< 0.005	2.48
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

3.13. 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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	—	27.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	—	4.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	—	0.75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	1.78	0.00	0.00	0.33	0.33	0.00	0.08	0.08	—	353	353	0.01	0.01	1.29	359

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.24	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	51.2	51.2	< 0.005	< 0.005	0.08	51.9
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	0.01	0.01	0.00	< 0.005	< 0.005	—	8.48	8.48	< 0.005	< 0.005	0.01	8.60
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

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	7/25/2024	8/28/2024	5.00	25.0	—
Site Preparation	Site Preparation	8/29/2024	9/11/2024	5.00	10.0	—
Grading	Grading	9/12/2024	10/30/2024	5.00	35.0	—
Building Construction	Building Construction	10/31/2024	8/6/2025	5.00	200	—
Paving	Paving	7/1/2025	8/6/2025	5.00	27.0	—
Architectural Coating	Architectural Coating	5/22/2025	8/6/2025	5.00	55.0	—

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
Demolition	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Crushing/Proc. Equipment	Gasoline	Average	1.00	8.00	12.0	0.85
Demolition	Off-Highway Trucks	Diesel	Average	2.00	8.00	376	0.38
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Crawler Tractors	Diesel	Average	4.00	8.00	87.0	0.43
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Scrapers	Diesel	Average	4.00	4.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Crawler Tractors	Diesel	Average	1.00	8.00	87.0	0.43
Grading	Off-Highway Trucks	Diesel	Average	1.00	8.00	376	0.38
Building Construction	Forklifts	Diesel	Average	5.00	8.00	82.0	0.20

Building Construction	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Average	2.00	8.00	367	0.29
Building Construction	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	5.00	8.00	84.0	0.37
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Other Material Handling Equipment	Electric	Average	1.00	8.00	93.0	0.40

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	22.5	18.5	LDA,LDT1,LDT2
Demolition	Vendor	5.00	10.2	HHDT,MHDT
Demolition	Hauling	240	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	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	22.5	18.5	LDA,LDT1,LDT2
Grading	Vendor	7.00	10.2	HHDT,MHDT

Grading	Hauling	35.7	56.9	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	128	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	37.0	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	25.6	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	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	456,516	152,172	18,757

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	24,000	—
Site Preparation	—	—	35.0	0.00	—
Grading	—	10,000	123	0.00	—
Paving	0.00	0.00	0.00	0.00	7.18

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Manufacturing	0.00	0%
Parking Lot	1.19	100%
Other Asphalt Surfaces	5.99	100%

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	222	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

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	6.75	annual days of extreme heat
Extreme Precipitation	4.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	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 (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
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	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A

Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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 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	29.9
AQ-PM	83.0
AQ-DPM	64.6
Drinking Water	34.7
Lead Risk Housing	93.7
Pesticides	41.1
Toxic Releases	95.5
Traffic	52.6
Effect Indicators	—
CleanUp Sites	73.4

Groundwater	97.7
Haz Waste Facilities/Generators	97.4
Impaired Water Bodies	66.7
Solid Waste	93.2
Sensitive Population	—
Asthma	91.1
Cardio-vascular	89.0
Low Birth Weights	85.5
Socioeconomic Factor Indicators	—
Education	78.8
Housing	80.7
Linguistic	54.6
Poverty	67.2
Unemployment	60.6

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	32.60618504
Employed	27.51186963
Median HI	42.25587065
Education	—
Bachelor's or higher	18.42679328
High school enrollment	100
Preschool enrollment	36.10932888
Transportation	—

Auto Access	64.27563198
Active commuting	62.96676505
Social	—
2-parent households	24.09854998
Voting	9.354548954
Neighborhood	—
Alcohol availability	10.88156037
Park access	36.08366483
Retail density	68.71551392
Supermarket access	88.31002181
Tree canopy	37.89298088
Housing	—
Homeownership	47.09354549
Housing habitability	21.81444886
Low-inc homeowner severe housing cost burden	7.827537534
Low-inc renter severe housing cost burden	66.09778006
Uncrowded housing	25.445913
Health Outcomes	—
Insured adults	22.85384319
Arthritis	73.2
Asthma ER Admissions	11.6
High Blood Pressure	74.3
Cancer (excluding skin)	80.0
Asthma	34.7
Coronary Heart Disease	66.7
Chronic Obstructive Pulmonary Disease	45.1
Diagnosed Diabetes	33.2

Life Expectancy at Birth	24.0
Cognitively Disabled	35.0
Physically Disabled	25.6
Heart Attack ER Admissions	19.5
Mental Health Not Good	27.0
Chronic Kidney Disease	55.3
Obesity	30.7
Pedestrian Injuries	19.6
Physical Health Not Good	30.0
Stroke	45.2
Health Risk Behaviors	—
Binge Drinking	60.3
Current Smoker	25.4
No Leisure Time for Physical Activity	31.1
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	53.3
Elderly	86.8
English Speaking	28.6
Foreign-born	66.4
Outdoor Workers	40.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	18.0
Traffic Density	74.9
Traffic Access	23.0
Other Indices	—

Hardship	77.0
Other Decision Support	—
2016 Voting	3.6

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	99.0
Healthy Places Index Score for Project Location (b)	29.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
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 & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Total Project area is 14.16 acres
Construction: Construction Phases	Construction schedule based on information provided by the Applicant.
Construction: Off-Road Equipment	Equipment based on information provided by the Client

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 Hauling trip length during grading adjusted to the average distance (56.9 mi) for material hauled from the Project site to Chiquita Canyon Landfill and Sunshine Canyon Landfill.
Construction: Architectural Coatings	Rule 1113

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APPENDIX 3.2:

CALEEMOD EXISTING OPERATIONAL EMISSIONS MODEL OUTPUTS

Cherry Avenue Warehouse (Existing Operations) 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	Cherry Avenue Warehouse (Existing Operations)
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.30
Precipitation (days)	17.4
Location	5900 Cherry Ave, Long Beach, CA 90805, USA
County	Los Angeles-South Coast
City	Long Beach
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4714
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Long Beach Gas & Oil
App Version	2022.1.1.19

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
Unrefrigerated Warehouse-No Rail	308	1000sqft	7.07	308,000	0.00	—	—	—

User Defined Industrial	308	User Defined Unit	0.00	0.00	0.00	—	—	—
Other Asphalt Surfaces	309	1000sqft	7.09	0.00	0.00	—	—	—

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.	3.01	10.1	2.08	19.1	0.02	0.15	0.99	1.15	0.15	0.25	0.40	293	4,879	5,171	30.0	0.39	4.96	6,043
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.62	7.91	2.01	5.26	0.02	0.13	0.99	1.12	0.13	0.25	0.38	293	4,779	5,072	30.0	0.39	0.13	5,939
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.13	9.31	1.98	13.5	0.02	0.14	0.72	0.86	0.14	0.18	0.32	293	4,547	4,840	30.0	0.39	1.57	5,705
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.39	1.70	0.36	2.46	< 0.005	0.03	0.13	0.16	0.03	0.03	0.06	48.4	753	801	4.96	0.06	0.26	945

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	0.45	0.41	0.37	4.32	0.01	0.01	0.99	1.00	0.01	0.25	0.26	—	1,081	1,081	0.04	0.04	4.96	1,097
Area	2.38	9.62	0.11	13.4	< 0.005	0.02	—	0.02	0.02	—	0.02	—	55.1	55.1	< 0.005	< 0.005	—	55.3
Energy	0.18	0.09	1.59	1.34	0.01	0.12	—	0.12	0.12	—	0.12	—	3,280	3,280	0.30	0.02	—	3,293
Water	—	—	—	—	—	—	—	—	—	—	—	136	463	600	14.0	0.34	—	1,051
Waste	—	—	—	—	—	—	—	—	—	—	—	156	0.00	156	15.6	0.00	—	546
Total	3.01	10.1	2.08	19.1	0.02	0.15	0.99	1.15	0.15	0.25	0.40	293	4,879	5,171	30.0	0.39	4.96	6,043
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.45	0.40	0.41	3.92	0.01	0.01	0.99	1.00	0.01	0.25	0.26	—	1,037	1,037	0.04	0.04	0.13	1,049
Area	—	7.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.18	0.09	1.59	1.34	0.01	0.12	—	0.12	0.12	—	0.12	—	3,280	3,280	0.30	0.02	—	3,293
Water	—	—	—	—	—	—	—	—	—	—	—	136	463	600	14.0	0.34	—	1,051
Waste	—	—	—	—	—	—	—	—	—	—	—	156	0.00	156	15.6	0.00	—	546
Total	0.62	7.91	2.01	5.26	0.02	0.13	0.99	1.12	0.13	0.25	0.38	293	4,779	5,072	30.0	0.39	0.13	5,939
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.32	0.29	0.30	2.95	0.01	0.01	0.72	0.72	0.01	0.18	0.19	—	767	767	0.03	0.03	1.57	777
Area	1.63	8.93	0.08	9.17	< 0.005	0.02	—	0.02	0.01	—	0.01	—	37.7	37.7	< 0.005	< 0.005	—	37.9
Energy	0.18	0.09	1.59	1.34	0.01	0.12	—	0.12	0.12	—	0.12	—	3,280	3,280	0.30	0.02	—	3,293
Water	—	—	—	—	—	—	—	—	—	—	—	136	463	600	14.0	0.34	—	1,051
Waste	—	—	—	—	—	—	—	—	—	—	—	156	0.00	156	15.6	0.00	—	546
Total	2.13	9.31	1.98	13.5	0.02	0.14	0.72	0.86	0.14	0.18	0.32	293	4,547	4,840	30.0	0.39	1.57	5,705
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.06	0.05	0.06	0.54	< 0.005	< 0.005	0.13	0.13	< 0.005	0.03	0.03	—	127	127	< 0.005	< 0.005	0.26	129

Area	0.30	1.63	0.01	1.67	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.25	6.25	< 0.005	< 0.005	—	6.27
Energy	0.03	0.02	0.29	0.24	< 0.005	0.02	—	0.02	0.02	—	0.02	—	543	543	0.05	< 0.005	—	545
Water	—	—	—	—	—	—	—	—	—	—	—	22.6	76.7	99.3	2.32	0.06	—	174
Waste	—	—	—	—	—	—	—	—	—	—	—	25.8	0.00	25.8	2.58	0.00	—	90.4
Total	0.39	1.70	0.36	2.46	< 0.005	0.03	0.13	0.16	0.03	0.03	0.06	48.4	753	801	4.96	0.06	0.26	945

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.43	0.39	0.23	4.08	0.01	< 0.005	0.86	0.87	< 0.005	0.22	0.22	—	889	889	0.04	0.02	3.12	899
User Defined Industrial	0.02	0.02	0.15	0.24	< 0.005	< 0.005	0.13	0.13	< 0.005	0.04	0.04	—	192	192	< 0.005	0.01	1.84	198
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.45	0.41	0.37	4.32	0.01	0.01	0.99	1.00	0.01	0.25	0.26	—	1,081	1,081	0.04	0.04	4.96	1,097
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrige Warehouse-No Rail	0.42	0.39	0.26	3.68	0.01	< 0.005	0.86	0.87	< 0.005	0.22	0.22	—	844	844	0.04	0.02	0.08	853
User Defined Industrial	0.02	0.02	0.15	0.24	< 0.005	< 0.005	0.13	0.13	< 0.005	0.04	0.04	—	192	192	< 0.005	0.01	0.05	196
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.45	0.40	0.41	3.92	0.01	0.01	0.99	1.00	0.01	0.25	0.26	—	1,037	1,037	0.04	0.04	0.13	1,049
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.06	0.05	0.03	0.51	< 0.005	< 0.005	0.11	0.11	< 0.005	0.03	0.03	—	104	104	< 0.005	< 0.005	0.16	105
User Defined Industrial	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	23.3	23.3	< 0.005	< 0.005	0.10	23.8
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.06	0.05	0.06	0.54	< 0.005	< 0.005	0.13	0.13	< 0.005	0.03	0.03	—	127	127	< 0.005	< 0.005	0.26	129

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated	—	—	—	—	—	—	—	—	—	—	—	—	1,377	1,377	0.13	0.02	—	1,385
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,377	1,377	0.13	0.02	—	1,385
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,377	1,377	0.13	0.02	—	1,385
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,377	1,377	0.13	0.02	—	1,385
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	228	228	0.02	< 0.005	—	229
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	—	228	228	0.02	< 0.005	—	229

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.18	0.09	1.59	1.34	0.01	0.12	—	0.12	0.12	—	0.12	—	1,903	1,903	0.17	< 0.005	—	1,908
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.18	0.09	1.59	1.34	0.01	0.12	—	0.12	0.12	—	0.12	—	1,903	1,903	0.17	< 0.005	—	1,908
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.18	0.09	1.59	1.34	0.01	0.12	—	0.12	0.12	—	0.12	—	1,903	1,903	0.17	< 0.005	—	1,908
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Total	0.18	0.09	1.59	1.34	0.01	0.12	—	0.12	0.12	—	0.12	—	1,903	1,903	0.17	< 0.005	—	1,908
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.03	0.02	0.29	0.24	< 0.005	0.02	—	0.02	0.02	—	0.02	—	315	315	0.03	< 0.005	—	316
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.03	0.02	0.29	0.24	< 0.005	0.02	—	0.02	0.02	—	0.02	—	315	315	0.03	< 0.005	—	316

4.3. Area Emissions by Source

4.3.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.62	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.81	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	2.38	2.20	0.11	13.4	< 0.005	0.02	—	0.02	0.02	—	0.02	—	55.1	55.1	< 0.005	< 0.005	—	55.3
Total	2.38	9.62	0.11	13.4	< 0.005	0.02	—	0.02	0.02	—	0.02	—	55.1	55.1	< 0.005	< 0.005	—	55.3

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.62	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.81	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	7.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	1.21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.30	0.27	0.01	1.67	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.25	6.25	< 0.005	< 0.005	—	6.27
Total	0.30	1.63	0.01	1.67	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.25	6.25	< 0.005	< 0.005	—	6.27

4.4. Water Emissions by Land Use

4.4.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehou Rail	—	—	—	—	—	—	—	—	—	—	—	136	463	600	14.0	0.34	—	1,051
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	136	463	600	14.0	0.34	—	1,051
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	136	463	600	14.0	0.34	—	1,051
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	136	463	600	14.0	0.34	—	1,051
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	22.6	76.7	99.3	2.32	0.06	—	174
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	22.6	76.7	99.3	2.32	0.06	—	174

4.5. Waste Emissions by Land Use

4.5.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	156	0.00	156	15.6	0.00	—	546
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	156	0.00	156	15.6	0.00	—	546
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	156	0.00	156	15.6	0.00	—	546

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	156	0.00	156	15.6	0.00	—	546
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	25.8	0.00	25.8	2.58	0.00	—	90.4
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	25.8	0.00	25.8	2.58	0.00	—	90.4

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

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Unrefrigerated Warehouse-No Rail	112	9.49	3.79	29,889	1,232	104	41.7	328,782
User Defined Industrial	4.00	0.34	0.12	1,068	152	12.9	4.68	40,584
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

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)
0	0.00	462,000	154,000	18,530

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)
Unrefrigerated Warehouse-No Rail	1,441,552	349	0.0330	0.0040	5,937,053
User Defined Industrial	0.00	349	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	349	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	71,225,000	0.00
User Defined Industrial	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)

Unrefrigerated Warehouse-No Rail	290	—
User Defined Industrial	0.00	—
Other Asphalt Surfaces	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

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

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

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	6.75	annual days of extreme heat
Extreme Precipitation	4.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	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	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A

Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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 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	29.9
AQ-PM	83.0
AQ-DPM	64.6
Drinking Water	34.7
Lead Risk Housing	93.7
Pesticides	41.1
Toxic Releases	95.5
Traffic	52.6
Effect Indicators	—
CleanUp Sites	73.4
Groundwater	97.7

Haz Waste Facilities/Generators	97.4
Impaired Water Bodies	66.7
Solid Waste	93.2
Sensitive Population	—
Asthma	91.1
Cardio-vascular	89.0
Low Birth Weights	85.5
Socioeconomic Factor Indicators	—
Education	78.8
Housing	80.7
Linguistic	54.6
Poverty	67.2
Unemployment	60.6

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	32.60618504
Employed	27.51186963
Median HI	42.25587065
Education	—
Bachelor's or higher	18.42679328
High school enrollment	100
Preschool enrollment	36.10932888
Transportation	—
Auto Access	64.27563198

Active commuting	62.96676505
Social	—
2-parent households	24.09854998
Voting	9.354548954
Neighborhood	—
Alcohol availability	10.88156037
Park access	36.08366483
Retail density	68.71551392
Supermarket access	88.31002181
Tree canopy	37.89298088
Housing	—
Homeownership	47.09354549
Housing habitability	21.81444886
Low-inc homeowner severe housing cost burden	7.827537534
Low-inc renter severe housing cost burden	66.09778006
Uncrowded housing	25.445913
Health Outcomes	—
Insured adults	22.85384319
Arthritis	73.2
Asthma ER Admissions	11.6
High Blood Pressure	74.3
Cancer (excluding skin)	80.0
Asthma	34.7
Coronary Heart Disease	66.7
Chronic Obstructive Pulmonary Disease	45.1
Diagnosed Diabetes	33.2
Life Expectancy at Birth	24.0

Cognitively Disabled	35.0
Physically Disabled	25.6
Heart Attack ER Admissions	19.5
Mental Health Not Good	27.0
Chronic Kidney Disease	55.3
Obesity	30.7
Pedestrian Injuries	19.6
Physical Health Not Good	30.0
Stroke	45.2
Health Risk Behaviors	—
Binge Drinking	60.3
Current Smoker	25.4
No Leisure Time for Physical Activity	31.1
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	53.3
Elderly	86.8
English Speaking	28.6
Foreign-born	66.4
Outdoor Workers	40.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	18.0
Traffic Density	74.9
Traffic Access	23.0
Other Indices	—
Hardship	77.0

Other Decision Support	—
2016 Voting	3.6

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	99.0
Healthy Places Index Score for Project Location (b)	29.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
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 & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis

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APPENDIX 3.3:

CALEEMOD PROJECT OPERATIONAL EMISSIONS MODEL OUTPUTS

Cherry Avenue Warehouse (Operations) Option 1 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	Cherry Avenue Warehouse (Operations) Option 1
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.30
Precipitation (days)	17.4
Location	5900 Cherry Ave, Long Beach, CA 90805, USA
County	Los Angeles-South Coast
City	Long Beach
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4714
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Long Beach Gas & Oil
App Version	2022.1.1.21

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
Manufacturing	304	1000sqft	6.99	304,344	0.00	—	—	—

User Defined Industrial	304	User Defined Unit	0.00	0.00	0.00	—	—	—
Parking Lot	338	Space	1.19	0.00	0.00	—	—	—
Other Asphalt Surfaces	261	1000sqft	5.99	0.00	0.00	—	—	—

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.	8.85	14.9	19.7	69.2	0.25	0.35	14.7	15.1	0.33	3.80	4.14	338	26,314	26,652	35.2	2.78	111	28,473
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.47	12.7	20.6	51.4	0.24	0.33	14.7	15.1	0.32	3.80	4.12	338	25,745	26,083	35.2	2.81	30.6	27,831
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.41	12.7	15.8	50.0	0.19	0.24	11.5	11.7	0.22	2.97	3.19	338	20,420	20,758	35.0	2.28	56.7	22,371
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.17	2.33	2.89	9.13	0.03	0.04	2.10	2.14	0.04	0.54	0.58	56.0	3,381	3,437	5.80	0.38	9.38	3,704

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	5.96	4.87	18.2	54.7	0.24	0.26	14.7	15.0	0.24	3.80	4.04	—	25,550	25,550	1.02	2.44	82.8	26,387
Area	2.35	9.51	0.11	13.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	54.4	54.4	< 0.005	< 0.005	—	54.6
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Waste	—	—	—	—	—	—	—	—	—	—	—	203	0.00	203	20.3	0.00	—	712
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28.5	28.5
Stationary	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	8.85	14.9	19.7	69.2	0.25	0.35	14.7	15.1	0.33	3.80	4.14	338	26,314	26,652	35.2	2.78	111	28,473
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.93	4.84	19.2	50.1	0.24	0.26	14.7	15.0	0.24	3.80	4.05	—	25,036	25,036	1.04	2.47	2.15	25,800
Area	—	7.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Waste	—	—	—	—	—	—	—	—	—	—	—	203	0.00	203	20.3	0.00	—	712
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28.5	28.5
Stationary	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	6.47	12.7	20.6	51.4	0.24	0.33	14.7	15.1	0.32	3.80	4.12	338	25,745	26,083	35.2	2.81	30.6	27,831
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.65	3.79	15.4	40.6	0.19	0.20	11.5	11.7	0.19	2.97	3.16	—	19,856	19,856	0.82	1.95	28.2	20,486
Area	1.61	8.82	0.08	9.06	< 0.005	0.02	—	0.02	0.01	—	0.01	—	37.3	37.3	< 0.005	< 0.005	—	37.4

Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Waste	—	—	—	—	—	—	—	—	—	—	—	203	0.00	203	20.3	0.00	—	712
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28.5	28.5
Stationary	0.15	0.13	0.38	0.34	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	69.0	69.0	< 0.005	< 0.005	0.00	69.2
Total	6.41	12.7	15.8	50.0	0.19	0.24	11.5	11.7	0.22	2.97	3.19	338	20,420	20,758	35.0	2.28	56.7	22,371
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.85	0.69	2.80	7.41	0.03	0.04	2.10	2.14	0.04	0.54	0.58	—	3,287	3,287	0.14	0.32	4.67	3,392
Area	0.29	1.61	0.01	1.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.17	6.17	< 0.005	< 0.005	—	6.19
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	22.3	75.8	98.1	2.30	0.06	—	172
Waste	—	—	—	—	—	—	—	—	—	—	—	33.7	0.00	33.7	3.37	0.00	—	118
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.71	4.71
Stationary	0.03	0.02	0.07	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	11.4	11.4	< 0.005	< 0.005	0.00	11.5
Total	1.17	2.33	2.89	9.13	0.03	0.04	2.10	2.14	0.04	0.54	0.58	56.0	3,381	3,437	5.80	0.38	9.38	3,704

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Manufact	4.97	4.53	2.65	47.7	0.10	0.05	10.1	10.1	0.05	2.55	2.60	—	10,395	10,395	0.42	0.27	36.4	10,522
User Defined Industrial	0.99	0.34	15.6	7.05	0.14	0.20	4.65	4.85	0.19	1.25	1.44	—	15,155	15,155	0.60	2.18	46.4	15,865
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	5.96	4.87	18.2	54.7	0.24	0.26	14.7	15.0	0.24	3.80	4.04	—	25,550	25,550	1.02	2.44	82.8	26,387
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	4.96	4.50	2.99	43.1	0.10	0.05	10.1	10.1	0.05	2.55	2.60	—	9,878	9,878	0.44	0.29	0.94	9,977
User Defined Industrial	0.98	0.34	16.2	7.04	0.14	0.20	4.65	4.85	0.19	1.25	1.44	—	15,157	15,157	0.60	2.18	1.20	15,823
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	5.93	4.84	19.2	50.1	0.24	0.26	14.7	15.0	0.24	3.80	4.05	—	25,036	25,036	1.04	2.47	2.15	25,800
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.71	0.64	0.44	6.40	0.01	0.01	1.44	1.44	0.01	0.36	0.37	—	1,308	1,308	0.06	0.04	2.05	1,323
User Defined Industrial	0.14	0.05	2.37	1.01	0.02	0.03	0.66	0.69	0.03	0.18	0.21	—	1,979	1,979	0.08	0.28	2.62	2,069
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Total	0.85	0.69	2.80	7.41	0.03	0.04	2.10	2.14	0.04	0.54	0.58	—	3,287	3,287	0.14	0.32	4.67	3,392

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Total	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	2.35	2.17	0.11	13.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	54.4	54.4	< 0.005	< 0.005	—	54.6
Total	2.35	9.51	0.11	13.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	54.4	54.4	< 0.005	< 0.005	—	54.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	7.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	1.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.29	0.27	0.01	1.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.17	6.17	< 0.005	< 0.005	—	6.19
Total	0.29	1.61	0.01	1.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.17	6.17	< 0.005	< 0.005	—	6.19

4.4. Water Emissions by Land Use

4.4.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	22.3	75.8	98.1	2.30	0.06	—	172
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	22.3	75.8	98.1	2.30	0.06	—	172

4.5. Waste Emissions by Land Use

4.5.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	203	0.00	203	20.3	0.00	—	712
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	203	0.00	203	20.3	0.00	—	712

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	203	0.00	203	20.3	0.00	—	712
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	203	0.00	203	20.3	0.00	—	712
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	33.7	0.00	33.7	3.37	0.00	—	118
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	33.7	0.00	33.7	3.37	0.00	—	118

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28.5	28.5
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28.5	28.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28.5	28.5
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28.5	28.5
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.71	4.71
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.71	4.71

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.03	0.02	0.07	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	11.4	11.4	< 0.005	< 0.005	0.00	11.5
Total	0.03	0.02	0.07	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	11.4	11.4	< 0.005	< 0.005	0.00	11.5

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
Manufacturing	1,310	410	273	377,137	14,410	4,513	2,998	4,148,508

User Defined Industrial	138	43.2	28.7	39,727	5,244	1,642	1,092	1,509,640
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

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)
0	0.00	456,516	152,172	18,757

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)
Manufacturing	0.00	349	0.0330	0.0040	0.00
User Defined Industrial	0.00	349	0.0330	0.0040	0.00

Parking Lot	0.00	349	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	349	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Manufacturing	70,379,550	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Manufacturing	377	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	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
Manufacturing	Other commercial A/C and heat pumps	User Defined	750	0.30	4.00	4.00	18.0

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

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
Fire Pump	Diesel	1.00	0.50	50.0	300	0.73

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

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	6.75	annual days of extreme heat
Extreme Precipitation	4.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	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 (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
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	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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 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	29.9
AQ-PM	83.0
AQ-DPM	64.6
Drinking Water	34.7
Lead Risk Housing	93.7
Pesticides	41.1
Toxic Releases	95.5
Traffic	52.6
Effect Indicators	—
CleanUp Sites	73.4
Groundwater	97.7
Haz Waste Facilities/Generators	97.4
Impaired Water Bodies	66.7
Solid Waste	93.2
Sensitive Population	—
Asthma	91.1
Cardio-vascular	89.0
Low Birth Weights	85.5
Socioeconomic Factor Indicators	—

Education	78.8
Housing	80.7
Linguistic	54.6
Poverty	67.2
Unemployment	60.6

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	32.60618504
Employed	27.51186963
Median HI	42.25587065
Education	—
Bachelor's or higher	18.42679328
High school enrollment	100
Preschool enrollment	36.10932888
Transportation	—
Auto Access	64.27563198
Active commuting	62.96676505
Social	—
2-parent households	24.09854998
Voting	9.354548954
Neighborhood	—
Alcohol availability	10.88156037
Park access	36.08366483
Retail density	68.71551392

Supermarket access	88.31002181
Tree canopy	37.89298088
Housing	—
Homeownership	47.09354549
Housing habitability	21.81444886
Low-inc homeowner severe housing cost burden	7.827537534
Low-inc renter severe housing cost burden	66.09778006
Uncrowded housing	25.445913
Health Outcomes	—
Insured adults	22.85384319
Arthritis	73.2
Asthma ER Admissions	11.6
High Blood Pressure	74.3
Cancer (excluding skin)	80.0
Asthma	34.7
Coronary Heart Disease	66.7
Chronic Obstructive Pulmonary Disease	45.1
Diagnosed Diabetes	33.2
Life Expectancy at Birth	24.0
Cognitively Disabled	35.0
Physically Disabled	25.6
Heart Attack ER Admissions	19.5
Mental Health Not Good	27.0
Chronic Kidney Disease	55.3
Obesity	30.7
Pedestrian Injuries	19.6
Physical Health Not Good	30.0

Stroke	45.2
Health Risk Behaviors	—
Binge Drinking	60.3
Current Smoker	25.4
No Leisure Time for Physical Activity	31.1
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	53.3
Elderly	86.8
English Speaking	28.6
Foreign-born	66.4
Outdoor Workers	40.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	18.0
Traffic Density	74.9
Traffic Access	23.0
Other Indices	—
Hardship	77.0
Other Decision Support	—
2016 Voting	3.6

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	99.0
Healthy Places Index Score for Project Location (b)	29.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes

Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
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 & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Project site is 14.16 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis
Operations: Energy Use	Project energy demand will be offset with solar. Project will not utilize natural gas.
Operations: Refrigerants	As of 1 January 2022, new commercial refrigeration equipment may not use refrigerants with a GWP of 150 or greater. Further, R-404A (the CalEEMod default) is unacceptable for new supermarket and cold storage systems as of 1 January 2019 and 2023, respectively. Beginning 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater.

Cherry Avenue Warehouse (Operations) Option 2 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	Cherry Avenue Warehouse (Operations) Option 2
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.30
Precipitation (days)	17.4
Location	5900 Cherry Ave, Long Beach, CA 90805, USA
County	Los Angeles-South Coast
City	Long Beach
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4714
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Long Beach Gas & Oil
App Version	2022.1.1.21

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
General Heavy Industry	304	1000sqft	6.99	304,344	0.00	—	—	—

User Defined Industrial	304	User Defined Unit	0.00	0.00	0.00	—	—	—
Parking Lot	338	Space	1.19	0.00	0.00	—	—	—
Other Asphalt Surfaces	261	1000sqft	5.99	0.00	0.00	—	—	—

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.	8.94	15.2	13.4	71.0	0.20	0.27	13.8	14.1	0.26	3.53	3.79	338	20,934	21,272	35.0	1.88	95.5	22,804
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.56	13.0	14.0	52.7	0.19	0.25	13.8	14.0	0.24	3.53	3.77	338	20,312	20,650	35.0	1.91	30.2	22,125
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.90	13.4	11.5	55.0	0.16	0.19	11.7	11.9	0.18	3.01	3.18	338	17,556	17,894	34.9	1.69	53.3	19,324
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.26	2.44	2.09	10.0	0.03	0.03	2.14	2.18	0.03	0.55	0.58	56.0	2,907	2,963	5.78	0.28	8.83	3,199

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	6.04	5.18	11.9	56.6	0.19	0.18	13.8	14.0	0.17	3.53	3.70	—	20,170	20,170	0.80	1.55	67.0	20,717
Area	2.35	9.51	0.11	13.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	54.4	54.4	< 0.005	< 0.005	—	54.6
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Waste	—	—	—	—	—	—	—	—	—	—	—	203	0.00	203	20.3	0.00	—	712
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28.5	28.5
Stationary	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	8.94	15.2	13.4	71.0	0.20	0.27	13.8	14.1	0.26	3.53	3.79	338	20,934	21,272	35.0	1.88	95.5	22,804
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	6.02	5.15	12.6	51.5	0.19	0.18	13.8	14.0	0.17	3.53	3.70	—	19,602	19,602	0.83	1.57	1.74	20,093
Area	—	7.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Waste	—	—	—	—	—	—	—	—	—	—	—	203	0.00	203	20.3	0.00	—	712
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28.5	28.5
Stationary	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	6.56	13.0	14.0	52.7	0.19	0.25	13.8	14.0	0.24	3.53	3.77	338	20,312	20,650	35.0	1.91	30.2	22,125
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.14	4.40	11.0	45.6	0.16	0.15	11.7	11.9	0.14	3.01	3.15	—	16,992	16,992	0.71	1.35	24.9	17,438
Area	1.61	8.82	0.08	9.06	< 0.005	0.02	—	0.02	0.01	—	0.01	—	37.3	37.3	< 0.005	< 0.005	—	37.4

Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Waste	—	—	—	—	—	—	—	—	—	—	—	203	0.00	203	20.3	0.00	—	712
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28.5	28.5
Stationary	0.15	0.13	0.38	0.34	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	69.0	69.0	< 0.005	< 0.005	0.00	69.2
Total	6.90	13.4	11.5	55.0	0.16	0.19	11.7	11.9	0.18	3.01	3.18	338	17,556	17,894	34.9	1.69	53.3	19,324
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.94	0.80	2.01	8.32	0.03	0.03	2.14	2.17	0.03	0.55	0.57	—	2,813	2,813	0.12	0.22	4.12	2,887
Area	0.29	1.61	0.01	1.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.17	6.17	< 0.005	< 0.005	—	6.19
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	22.3	75.8	98.1	2.30	0.06	—	172
Waste	—	—	—	—	—	—	—	—	—	—	—	33.7	0.00	33.7	3.37	0.00	—	118
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.71	4.71
Stationary	0.03	0.02	0.07	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	11.4	11.4	< 0.005	< 0.005	0.00	11.5
Total	1.26	2.44	2.09	10.0	0.03	0.03	2.14	2.18	0.03	0.55	0.58	56.0	2,907	2,963	5.78	0.28	8.83	3,199

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Heavy Industry	5.47	4.98	2.91	52.5	0.11	0.06	11.1	11.2	0.06	2.81	2.86	—	11,441	11,441	0.46	0.30	40.1	11,581
User Defined Industrial	0.57	0.20	8.96	4.08	0.08	0.12	2.69	2.80	0.11	0.72	0.83	—	8,728	8,728	0.35	1.25	26.9	9,136
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	6.04	5.18	11.9	56.6	0.19	0.18	13.8	14.0	0.17	3.53	3.70	—	20,170	20,170	0.80	1.55	67.0	20,717
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	5.46	4.96	3.29	47.4	0.11	0.06	11.1	11.2	0.06	2.81	2.86	—	10,873	10,873	0.48	0.32	1.04	10,981
User Defined Industrial	0.56	0.20	9.32	4.07	0.08	0.12	2.69	2.80	0.11	0.72	0.83	—	8,730	8,730	0.34	1.25	0.70	9,112
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	6.02	5.15	12.6	51.5	0.19	0.18	13.8	14.0	0.17	3.53	3.70	—	19,602	19,602	0.83	1.57	1.74	20,093
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	0.85	0.77	0.52	7.68	0.02	0.01	1.72	1.73	0.01	0.44	0.44	—	1,570	1,570	0.07	0.05	2.47	1,588
User Defined Industrial	0.09	0.03	1.48	0.64	0.01	0.02	0.42	0.44	0.02	0.11	0.13	—	1,243	1,243	0.05	0.18	1.65	1,299

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.94	0.80	2.01	8.32	0.03	0.03	2.14	2.17	0.03	0.55	0.57	—	2,813	2,813	0.12	0.22	4.12	2,887

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	2.35	2.17	0.11	13.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	54.4	54.4	< 0.005	< 0.005	—	54.6
Total	2.35	9.51	0.11	13.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	54.4	54.4	< 0.005	< 0.005	—	54.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	7.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	1.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.29	0.27	0.01	1.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.17	6.17	< 0.005	< 0.005	—	6.19
Total	0.29	1.61	0.01	1.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.17	6.17	< 0.005	< 0.005	—	6.19

4.4. Water Emissions by Land Use

4.4.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	22.3	75.8	98.1	2.30	0.06	—	172
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	22.3	75.8	98.1	2.30	0.06	—	172

4.5. Waste Emissions by Land Use

4.5.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	203	0.00	203	20.3	0.00	—	712
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	203	0.00	203	20.3	0.00	—	712
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	203	0.00	203	20.3	0.00	—	712
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	203	0.00	203	20.3	0.00	—	712
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	33.7	0.00	33.7	3.37	0.00	—	118
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	33.7	0.00	33.7	3.37	0.00	—	118

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28.5	28.5
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28.5	28.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28.5	28.5
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28.5	28.5

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.71	4.71
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.71	4.71

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.03	0.02	0.07	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	11.4	11.4	< 0.005	< 0.005	0.00	11.5
Total	0.03	0.02	0.07	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	11.4	11.4	< 0.005	< 0.005	0.00	11.5

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
General Heavy Industry	1,408	199	1,442	452,640	15,488	2,189	15,860	4,979,044
User Defined Industrial	78.0	11.0	79.9	25,075	2,964	419	3,035	952,857
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

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)
0	0.00	456,516	152,172	18,757

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)
General Heavy Industry	0.00	349	0.0330	0.0040	0.00
User Defined Industrial	0.00	349	0.0330	0.0040	0.00
Parking Lot	0.00	349	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	349	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Heavy Industry	70,379,550	0.00

User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Heavy Industry	377	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	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
General Heavy Industry	Other commercial A/C and heat pumps	User Defined	750	0.30	4.00	4.00	18.0

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

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
Fire Pump	Diesel	1.00	0.50	50.0	300	0.73

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

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	6.75	annual days of extreme heat
Extreme Precipitation	4.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	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 (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
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	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A

Air Quality Degradation	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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 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	29.9
AQ-PM	83.0
AQ-DPM	64.6
Drinking Water	34.7
Lead Risk Housing	93.7
Pesticides	41.1
Toxic Releases	95.5
Traffic	52.6
Effect Indicators	—
CleanUp Sites	73.4
Groundwater	97.7
Haz Waste Facilities/Generators	97.4
Impaired Water Bodies	66.7
Solid Waste	93.2
Sensitive Population	—
Asthma	91.1
Cardio-vascular	89.0
Low Birth Weights	85.5
Socioeconomic Factor Indicators	—
Education	78.8
Housing	80.7
Linguistic	54.6
Poverty	67.2
Unemployment	60.6

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	32.60618504
Employed	27.51186963
Median HI	42.25587065
Education	—
Bachelor's or higher	18.42679328
High school enrollment	100
Preschool enrollment	36.10932888
Transportation	—
Auto Access	64.27563198
Active commuting	62.96676505
Social	—
2-parent households	24.09854998
Voting	9.354548954
Neighborhood	—
Alcohol availability	10.88156037
Park access	36.08366483
Retail density	68.71551392
Supermarket access	88.31002181
Tree canopy	37.89298088
Housing	—
Homeownership	47.09354549
Housing habitability	21.81444886
Low-inc homeowner severe housing cost burden	7.827537534
Low-inc renter severe housing cost burden	66.09778006
Uncrowded housing	25.445913

Health Outcomes	—
Insured adults	22.85384319
Arthritis	73.2
Asthma ER Admissions	11.6
High Blood Pressure	74.3
Cancer (excluding skin)	80.0
Asthma	34.7
Coronary Heart Disease	66.7
Chronic Obstructive Pulmonary Disease	45.1
Diagnosed Diabetes	33.2
Life Expectancy at Birth	24.0
Cognitively Disabled	35.0
Physically Disabled	25.6
Heart Attack ER Admissions	19.5
Mental Health Not Good	27.0
Chronic Kidney Disease	55.3
Obesity	30.7
Pedestrian Injuries	19.6
Physical Health Not Good	30.0
Stroke	45.2
Health Risk Behaviors	—
Binge Drinking	60.3
Current Smoker	25.4
No Leisure Time for Physical Activity	31.1
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0

Children	53.3
Elderly	86.8
English Speaking	28.6
Foreign-born	66.4
Outdoor Workers	40.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	18.0
Traffic Density	74.9
Traffic Access	23.0
Other Indices	—
Hardship	77.0
Other Decision Support	—
2016 Voting	3.6

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	99.0
Healthy Places Index Score for Project Location (b)	29.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
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 & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Project site is 14.16 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis
Operations: Energy Use	Project energy demand will be offset with solar. Project will not utilize natural gas.
Operations: Refrigerants	As of 1 January 2022, new commercial refrigeration equipment may not use refrigerants with a GWP of 150 or greater. Further, R-404A (the CalEEMod default) is unacceptable for new supermarket and cold storage systems as of 1 January 2019 and 2023, respectively. Beginning 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater.

Cherry Avenue Warehouse (Operations) Option 3 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	Cherry Avenue Warehouse (Operations) Option 3
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.30
Precipitation (days)	17.4
Location	5900 Cherry Ave, Long Beach, CA 90805, USA
County	Los Angeles-South Coast
City	Long Beach
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4714
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Long Beach Gas & Oil
App Version	2022.1.1.21

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
Unrefrigerated Warehouse-No Rail	304	1000sqft	6.99	304,344	0.00	—	—	—

User Defined Industrial	304	User Defined Unit	0.00	0.00	0.00	—	—	—
Parking Lot	338	Space	1.19	0.00	0.00	—	—	—
Other Asphalt Surfaces	261	1000sqft	5.99	0.00	0.00	—	—	—

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.	5.51	11.6	23.2	36.3	0.22	0.38	8.87	9.25	0.36	2.34	2.71	289	23,897	24,186	30.2	3.34	71.9	26,009
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.14	9.44	24.0	21.9	0.22	0.36	8.87	9.23	0.35	2.34	2.69	289	23,712	24,001	30.2	3.35	1.86	25,757
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.66	10.1	17.3	24.7	0.16	0.25	6.43	6.67	0.23	1.70	1.93	289	17,420	17,709	30.0	2.54	22.7	19,238
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.67	1.85	3.15	4.51	0.03	0.04	1.17	1.22	0.04	0.31	0.35	47.9	2,884	2,932	4.96	0.42	3.76	3,185

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	2.61	1.63	21.7	21.8	0.21	0.29	8.87	9.16	0.27	2.34	2.62	—	23,133	23,133	0.92	3.01	71.9	24,124
Area	2.35	9.51	0.11	13.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	54.4	54.4	< 0.005	< 0.005	—	54.6
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Waste	—	—	—	—	—	—	—	—	—	—	—	154	0.00	154	15.4	0.00	—	539
Stationary	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	5.51	11.6	23.2	36.3	0.22	0.38	8.87	9.25	0.36	2.34	2.71	289	23,897	24,186	30.2	3.34	71.9	26,009
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.60	1.61	22.7	20.6	0.21	0.29	8.87	9.16	0.27	2.34	2.62	—	23,003	23,003	0.93	3.01	1.86	23,926
Area	—	7.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Waste	—	—	—	—	—	—	—	—	—	—	—	154	0.00	154	15.4	0.00	—	539
Stationary	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	3.14	9.44	24.0	21.9	0.22	0.36	8.87	9.23	0.35	2.34	2.69	289	23,712	24,001	30.2	3.35	1.86	25,757
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.90	1.18	16.8	15.3	0.16	0.21	6.43	6.64	0.20	1.70	1.90	—	16,856	16,856	0.68	2.21	22.7	17,553
Area	1.61	8.82	0.08	9.06	< 0.005	0.02	—	0.02	0.01	—	0.01	—	37.3	37.3	< 0.005	< 0.005	—	37.4
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039

Waste	—	—	—	—	—	—	—	—	—	—	—	154	0.00	154	15.4	0.00	—	539
Stationary	0.15	0.13	0.38	0.34	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	69.0	69.0	< 0.005	< 0.005	0.00	69.2
Total	3.66	10.1	17.3	24.7	0.16	0.25	6.43	6.67	0.23	1.70	1.93	289	17,420	17,709	30.0	2.54	22.7	19,238
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.35	0.21	3.07	2.80	0.03	0.04	1.17	1.21	0.04	0.31	0.35	—	2,791	2,791	0.11	0.37	3.76	2,906
Area	0.29	1.61	0.01	1.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.17	6.17	< 0.005	< 0.005	—	6.19
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	22.3	75.8	98.1	2.30	0.06	—	172
Waste	—	—	—	—	—	—	—	—	—	—	—	25.5	0.00	25.5	2.55	0.00	—	89.3
Stationary	0.03	0.02	0.07	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	11.4	11.4	< 0.005	< 0.005	0.00	11.5
Total	0.67	1.85	3.15	4.51	0.03	0.04	1.17	1.22	0.04	0.31	0.35	47.9	2,884	2,932	4.96	0.42	3.76	3,185

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.28	1.17	0.68	12.3	0.03	0.01	2.60	2.62	0.01	0.66	0.67	—	2,682	2,682	0.11	0.07	9.40	2,715

User Defined Industrial	1.33	0.46	21.0	9.49	0.19	0.27	6.27	6.54	0.26	1.68	1.94	—	20,451	20,451	0.81	2.94	62.5	21,409
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	2.61	1.63	21.7	21.8	0.21	0.29	8.87	9.16	0.27	2.34	2.62	—	23,133	23,133	0.92	3.01	71.9	24,124
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.28	1.16	0.77	11.1	0.03	0.01	2.60	2.62	0.01	0.66	0.67	—	2,549	2,549	0.11	0.08	0.24	2,574
User Defined Industrial	1.32	0.45	21.9	9.48	0.19	0.27	6.27	6.54	0.26	1.68	1.94	—	20,454	20,454	0.81	2.94	1.62	21,352
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	2.60	1.61	22.7	20.6	0.21	0.29	8.87	9.16	0.27	2.34	2.62	—	23,003	23,003	0.93	3.01	1.86	23,926
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.17	0.15	0.10	1.53	< 0.005	< 0.005	0.34	0.35	< 0.005	0.09	0.09	—	313	313	0.01	0.01	0.49	317
User Defined Industrial	0.18	0.06	2.96	1.26	0.03	0.04	0.83	0.87	0.03	0.22	0.26	—	2,478	2,478	0.10	0.36	3.27	2,589

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.35	0.21	3.07	2.80	0.03	0.04	1.17	1.21	0.04	0.31	0.35	—	2,791	2,791	0.11	0.37	3.76	2,906

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrige Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	2.35	2.17	0.11	13.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	54.4	54.4	< 0.005	< 0.005	—	54.6
Total	2.35	9.51	0.11	13.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	54.4	54.4	< 0.005	< 0.005	—	54.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Products	—	6.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	7.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	1.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.29	0.27	0.01	1.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.17	6.17	< 0.005	< 0.005	—	6.19
Total	0.29	1.61	0.01	1.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.17	6.17	< 0.005	< 0.005	—	6.19

4.4. Water Emissions by Land Use

4.4.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	22.3	75.8	98.1	2.30	0.06	—	172
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	22.3	75.8	98.1	2.30	0.06	—	172

4.5. Waste Emissions by Land Use

4.5.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	154	0.00	154	15.4	0.00	—	539
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	154	0.00	154	15.4	0.00	—	539
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated	—	—	—	—	—	—	—	—	—	—	—	154	0.00	154	15.4	0.00	—	539
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	154	0.00	154	15.4	0.00	—	539
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	25.5	0.00	25.5	2.55	0.00	—	89.3
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	25.5	0.00	25.5	2.55	0.00	—	89.3

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

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.03	0.02	0.07	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	11.4	11.4	< 0.005	< 0.005	0.00	11.5
Total	0.03	0.02	0.07	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	11.4	11.4	< 0.005	< 0.005	0.00	11.5

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Unrefrigerated Warehouse-No Rail	338	29.5	11.8	90,273	3,718	324	130	993,002
User Defined Industrial	186	16.2	6.48	49,679	7,069	615	246	1,887,804
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

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)
0	0.00	456,516	152,172	18,757

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)
Unrefrigerated Warehouse-No Rail	0.00	349	0.0330	0.0040	0.00
User Defined Industrial	0.00	349	0.0330	0.0040	0.00
Parking Lot	0.00	349	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	349	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	70,379,550	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	286	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	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

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

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
Fire Pump	Diesel	1.00	0.50	50.0	300	0.73

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

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	6.75	annual days of extreme heat
Extreme Precipitation	4.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	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 (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
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	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A

Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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 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	29.9
AQ-PM	83.0
AQ-DPM	64.6
Drinking Water	34.7
Lead Risk Housing	93.7
Pesticides	41.1
Toxic Releases	95.5
Traffic	52.6
Effect Indicators	—
CleanUp Sites	73.4
Groundwater	97.7
Haz Waste Facilities/Generators	97.4
Impaired Water Bodies	66.7
Solid Waste	93.2
Sensitive Population	—
Asthma	91.1
Cardio-vascular	89.0
Low Birth Weights	85.5
Socioeconomic Factor Indicators	—
Education	78.8
Housing	80.7
Linguistic	54.6
Poverty	67.2

Unemployment	60.6

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	32.60618504
Employed	27.51186963
Median HI	42.25587065
Education	—
Bachelor's or higher	18.42679328
High school enrollment	100
Preschool enrollment	36.10932888
Transportation	—
Auto Access	64.27563198
Active commuting	62.96676505
Social	—
2-parent households	24.09854998
Voting	9.354548954
Neighborhood	—
Alcohol availability	10.88156037
Park access	36.08366483
Retail density	68.71551392
Supermarket access	88.31002181
Tree canopy	37.89298088
Housing	—
Homeownership	47.09354549

Housing habitability	21.81444886
Low-inc homeowner severe housing cost burden	7.827537534
Low-inc renter severe housing cost burden	66.09778006
Uncrowded housing	25.445913
Health Outcomes	—
Insured adults	22.85384319
Arthritis	73.2
Asthma ER Admissions	11.6
High Blood Pressure	74.3
Cancer (excluding skin)	80.0
Asthma	34.7
Coronary Heart Disease	66.7
Chronic Obstructive Pulmonary Disease	45.1
Diagnosed Diabetes	33.2
Life Expectancy at Birth	24.0
Cognitively Disabled	35.0
Physically Disabled	25.6
Heart Attack ER Admissions	19.5
Mental Health Not Good	27.0
Chronic Kidney Disease	55.3
Obesity	30.7
Pedestrian Injuries	19.6
Physical Health Not Good	30.0
Stroke	45.2
Health Risk Behaviors	—
Binge Drinking	60.3
Current Smoker	25.4

No Leisure Time for Physical Activity	31.1
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	53.3
Elderly	86.8
English Speaking	28.6
Foreign-born	66.4
Outdoor Workers	40.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	18.0
Traffic Density	74.9
Traffic Access	23.0
Other Indices	—
Hardship	77.0
Other Decision Support	—
2016 Voting	3.6

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	99.0
Healthy Places Index Score for Project Location (b)	29.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
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 & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Total Project area is 14.16 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis
Operations: Energy Use	Project energy demand will be offset with solar. Project will not utilize natural gas.

Cherry Avenue Warehouse (Operations) Option 4 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	Cherry Avenue Warehouse (Operations) Option 4
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.30
Precipitation (days)	17.4
Location	5900 Cherry Ave, Long Beach, CA 90805, USA
County	Los Angeles-South Coast
City	Long Beach
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4714
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Long Beach Gas & Oil
App Version	2022.1.1.21

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
Unrefrigerated Warehouse-No Rail	304	1000sqft	6.99	304,344	0.00	—	—	—

User Defined Industrial	304	User Defined Unit	0.00	0.00	0.00	—	—	—
Parking Lot	338	Space	1.19	0.00	0.00	—	—	—
Other Asphalt Surfaces	261	1000sqft	5.99	0.00	0.00	—	—	—

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.	5.23	11.8	10.5	35.7	0.11	0.22	6.13	6.35	0.21	1.59	1.80	289	12,498	12,787	29.8	1.57	37.5	14,035
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.87	9.66	10.9	20.8	0.11	0.20	6.13	6.33	0.19	1.59	1.78	289	12,255	12,544	29.8	1.58	0.97	13,758
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.44	10.3	7.47	23.9	0.08	0.13	4.41	4.54	0.12	1.14	1.26	289	8,996	9,285	29.6	1.24	11.8	10,406
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.63	1.88	1.36	4.37	0.01	0.02	0.81	0.83	0.02	0.21	0.23	47.9	1,489	1,537	4.91	0.20	1.95	1,723

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	2.34	1.84	9.06	21.2	0.11	0.12	6.13	6.26	0.12	1.59	1.71	—	11,734	11,734	0.46	1.23	37.5	12,150
Area	2.35	9.51	0.11	13.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	54.4	54.4	< 0.005	< 0.005	—	54.6
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Waste	—	—	—	—	—	—	—	—	—	—	—	154	0.00	154	15.4	0.00	—	539
Stationary	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	5.23	11.8	10.5	35.7	0.11	0.22	6.13	6.35	0.21	1.59	1.80	289	12,498	12,787	29.8	1.57	37.5	14,035
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.33	1.83	9.51	19.5	0.11	0.12	6.13	6.26	0.12	1.59	1.71	—	11,545	11,545	0.47	1.24	0.97	11,927
Area	—	7.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Waste	—	—	—	—	—	—	—	—	—	—	—	154	0.00	154	15.4	0.00	—	539
Stationary	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	2.87	9.66	10.9	20.8	0.11	0.20	6.13	6.33	0.19	1.59	1.78	289	12,255	12,544	29.8	1.58	0.97	13,758
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.68	1.32	7.01	14.5	0.08	0.09	4.41	4.50	0.09	1.14	1.23	—	8,432	8,432	0.34	0.90	11.8	8,721
Area	1.61	8.82	0.08	9.06	< 0.005	0.02	—	0.02	0.01	—	0.01	—	37.3	37.3	< 0.005	< 0.005	—	37.4
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039

Waste	—	—	—	—	—	—	—	—	—	—	—	154	0.00	154	15.4	0.00	—	539
Stationary	0.15	0.13	0.38	0.34	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	69.0	69.0	< 0.005	< 0.005	0.00	69.2
Total	3.44	10.3	7.47	23.9	0.08	0.13	4.41	4.54	0.12	1.14	1.26	289	8,996	9,285	29.6	1.24	11.8	10,406
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.31	0.24	1.28	2.65	0.01	0.02	0.81	0.82	0.02	0.21	0.22	—	1,396	1,396	0.06	0.15	1.95	1,444
Area	0.29	1.61	0.01	1.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.17	6.17	< 0.005	< 0.005	—	6.19
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	22.3	75.8	98.1	2.30	0.06	—	172
Waste	—	—	—	—	—	—	—	—	—	—	—	25.5	0.00	25.5	2.55	0.00	—	89.3
Stationary	0.03	0.02	0.07	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	11.4	11.4	< 0.005	< 0.005	0.00	11.5
Total	0.63	1.88	1.36	4.37	0.01	0.02	0.81	0.83	0.02	0.21	0.23	47.9	1,489	1,537	4.91	0.20	1.95	1,723

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.83	1.67	0.97	17.5	0.04	0.02	3.71	3.73	0.02	0.94	0.96	—	3,825	3,825	0.15	0.10	13.4	3,871

User Defined Industrial	0.51	0.18	8.09	3.65	0.07	0.10	2.42	2.52	0.10	0.65	0.75	—	7,909	7,909	0.31	1.13	24.1	8,279
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	2.34	1.84	9.06	21.2	0.11	0.12	6.13	6.26	0.12	1.59	1.71	—	11,734	11,734	0.46	1.23	37.5	12,150
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.82	1.66	1.10	15.9	0.04	0.02	3.71	3.73	0.02	0.94	0.96	—	3,635	3,635	0.16	0.11	0.35	3,671
User Defined Industrial	0.50	0.17	8.41	3.65	0.07	0.10	2.42	2.52	0.10	0.65	0.75	—	7,911	7,911	0.31	1.13	0.63	8,257
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	2.33	1.83	9.51	19.5	0.11	0.12	6.13	6.26	0.12	1.59	1.71	—	11,545	11,545	0.47	1.24	0.97	11,927
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.24	0.22	0.15	2.17	< 0.005	< 0.005	0.49	0.49	< 0.005	0.12	0.13	—	444	444	0.02	0.01	0.70	449
User Defined Industrial	0.07	0.02	1.13	0.48	0.01	0.01	0.32	0.33	0.01	0.09	0.10	—	952	952	0.04	0.14	1.25	995

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.31	0.24	1.28	2.65	0.01	0.02	0.81	0.82	0.02	0.21	0.22	—	1,396	1,396	0.06	0.15	1.95	1,444

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrige Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	2.35	2.17	0.11	13.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	54.4	54.4	< 0.005	< 0.005	—	54.6
Total	2.35	9.51	0.11	13.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	54.4	54.4	< 0.005	< 0.005	—	54.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Products	—	6.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	7.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	1.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.29	0.27	0.01	1.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.17	6.17	< 0.005	< 0.005	—	6.19
Total	0.29	1.61	0.01	1.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.17	6.17	< 0.005	< 0.005	—	6.19

4.4. Water Emissions by Land Use

4.4.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	22.3	75.8	98.1	2.30	0.06	—	172
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	22.3	75.8	98.1	2.30	0.06	—	172

4.5. Waste Emissions by Land Use

4.5.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	154	0.00	154	15.4	0.00	—	539
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	154	0.00	154	15.4	0.00	—	539
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated	—	—	—	—	—	—	—	—	—	—	—	154	0.00	154	15.4	0.00	—	539
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	154	0.00	154	15.4	0.00	—	539
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	25.5	0.00	25.5	2.55	0.00	—	89.3
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	25.5	0.00	25.5	2.55	0.00	—	89.3

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

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.03	0.02	0.07	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	11.4	11.4	< 0.005	< 0.005	0.00	11.5
Total	0.03	0.02	0.07	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	11.4	11.4	< 0.005	< 0.005	0.00	11.5

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Unrefrigerated Warehouse-No Rail	482	42.0	1.46	127,928	5,302	462	16.1	1,407,205
User Defined Industrial	72.0	6.27	0.21	19,111	2,736	238	8.10	726,236
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

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)
0	0.00	456,516	152,172	18,757

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)
Unrefrigerated Warehouse-No Rail	0.00	349	0.0330	0.0040	0.00
User Defined Industrial	0.00	349	0.0330	0.0040	0.00
Parking Lot	0.00	349	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	349	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	70,379,550	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	286	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	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

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

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
Fire Pump	Diesel	1.00	0.50	50.0	300	0.73

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

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	6.75	annual days of extreme heat
Extreme Precipitation	4.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	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 (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
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	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A

Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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 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	29.9
AQ-PM	83.0
AQ-DPM	64.6
Drinking Water	34.7
Lead Risk Housing	93.7
Pesticides	41.1
Toxic Releases	95.5
Traffic	52.6
Effect Indicators	—
CleanUp Sites	73.4
Groundwater	97.7
Haz Waste Facilities/Generators	97.4
Impaired Water Bodies	66.7
Solid Waste	93.2
Sensitive Population	—
Asthma	91.1
Cardio-vascular	89.0
Low Birth Weights	85.5
Socioeconomic Factor Indicators	—
Education	78.8
Housing	80.7
Linguistic	54.6
Poverty	67.2

Unemployment	60.6

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	32.60618504
Employed	27.51186963
Median HI	42.25587065
Education	—
Bachelor's or higher	18.42679328
High school enrollment	100
Preschool enrollment	36.10932888
Transportation	—
Auto Access	64.27563198
Active commuting	62.96676505
Social	—
2-parent households	24.09854998
Voting	9.354548954
Neighborhood	—
Alcohol availability	10.88156037
Park access	36.08366483
Retail density	68.71551392
Supermarket access	88.31002181
Tree canopy	37.89298088
Housing	—
Homeownership	47.09354549

Housing habitability	21.81444886
Low-inc homeowner severe housing cost burden	7.827537534
Low-inc renter severe housing cost burden	66.09778006
Uncrowded housing	25.445913
Health Outcomes	—
Insured adults	22.85384319
Arthritis	73.2
Asthma ER Admissions	11.6
High Blood Pressure	74.3
Cancer (excluding skin)	80.0
Asthma	34.7
Coronary Heart Disease	66.7
Chronic Obstructive Pulmonary Disease	45.1
Diagnosed Diabetes	33.2
Life Expectancy at Birth	24.0
Cognitively Disabled	35.0
Physically Disabled	25.6
Heart Attack ER Admissions	19.5
Mental Health Not Good	27.0
Chronic Kidney Disease	55.3
Obesity	30.7
Pedestrian Injuries	19.6
Physical Health Not Good	30.0
Stroke	45.2
Health Risk Behaviors	—
Binge Drinking	60.3
Current Smoker	25.4

No Leisure Time for Physical Activity	31.1
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	53.3
Elderly	86.8
English Speaking	28.6
Foreign-born	66.4
Outdoor Workers	40.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	18.0
Traffic Density	74.9
Traffic Access	23.0
Other Indices	—
Hardship	77.0
Other Decision Support	—
2016 Voting	3.6

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	99.0
Healthy Places Index Score for Project Location (b)	29.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
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 & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Total Project area is 14.16 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis
Operations: Energy Use	Project energy demand will be offset with solar. Project will not utilize natural gas.

Cherry Avenue Warehouse (Operations) Option 5 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	Cherry Avenue Warehouse (Operations) Option 5
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.30
Precipitation (days)	17.4
Location	5900 Cherry Ave, Long Beach, CA 90805, USA
County	Los Angeles-South Coast
City	Long Beach
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4714
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Long Beach Gas & Oil
App Version	2022.1.1.21

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
Refrigerated Warehouse-No Rail	304	1000sqft	6.99	304,344	0.00	—	—	—

User Defined Industrial	304	User Defined Unit	0.00	0.00	0.00	—	—	—
Parking Lot	338	Space	1.19	0.00	0.00	—	—	—
Other Asphalt Surfaces	261	1000sqft	5.99	0.00	0.00	—	—	—

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.	7.19	13.1	30.3	44.6	0.25	0.57	11.0	11.5	0.55	2.90	3.45	289	27,168	27,457	30.3	3.54	405	29,676
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.82	10.9	31.3	29.8	0.25	0.55	11.0	11.5	0.53	2.90	3.44	289	26,952	27,241	30.3	3.55	313	29,371
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.56	10.9	21.7	30.9	0.19	0.33	8.52	8.86	0.32	2.26	2.57	289	20,911	21,200	30.1	2.86	342	23,146
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.83	1.98	3.96	5.63	0.03	0.06	1.56	1.62	0.06	0.41	0.47	47.9	3,462	3,510	4.98	0.47	56.7	3,832

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	3.22	2.12	24.0	27.6	0.24	0.33	11.0	11.3	0.31	2.90	3.22	—	25,901	25,901	1.01	3.20	94.7	26,975
Area	2.35	9.51	0.11	13.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	54.4	54.4	< 0.005	< 0.005	—	54.6
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Waste	—	—	—	—	—	—	—	—	—	—	—	154	0.00	154	15.4	0.00	—	539
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	310	310
Stationary	1.62	1.48	6.19	3.77	0.01	0.22	0.00	0.22	0.22	0.00	0.22	0.00	756	756	0.03	0.01	0.00	758
Total	7.19	13.1	30.3	44.6	0.25	0.57	11.0	11.5	0.55	2.90	3.45	289	27,168	27,457	30.3	3.54	405	29,676
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.19	2.10	25.1	26.1	0.24	0.33	11.0	11.3	0.31	2.90	3.22	—	25,739	25,739	1.01	3.21	2.46	26,725
Area	—	7.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Waste	—	—	—	—	—	—	—	—	—	—	—	154	0.00	154	15.4	0.00	—	539
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	310	310
Stationary	1.62	1.48	6.19	3.77	0.01	0.22	0.00	0.22	0.22	0.00	0.22	0.00	756	756	0.03	0.01	0.00	758
Total	4.82	10.9	31.3	29.8	0.25	0.55	11.0	11.5	0.53	2.90	3.44	289	26,952	27,241	30.3	3.55	313	29,371
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.50	1.64	19.9	20.8	0.19	0.26	8.52	8.78	0.25	2.26	2.50	—	20,209	20,209	0.79	2.52	32.1	21,012
Area	1.61	8.82	0.08	9.06	< 0.005	0.02	—	0.02	0.01	—	0.01	—	37.3	37.3	< 0.005	< 0.005	—	37.4

Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Waste	—	—	—	—	—	—	—	—	—	—	—	154	0.00	154	15.4	0.00	—	539
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	310	310
Stationary	0.44	0.40	1.70	1.03	< 0.005	0.06	0.00	0.06	0.06	0.00	0.06	0.00	207	207	0.01	< 0.005	0.00	208
Total	4.56	10.9	21.7	30.9	0.19	0.33	8.52	8.86	0.32	2.26	2.57	289	20,911	21,200	30.1	2.86	342	23,146
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.46	0.30	3.64	3.79	0.03	0.05	1.56	1.60	0.04	0.41	0.46	—	3,346	3,346	0.13	0.42	5.31	3,479
Area	0.29	1.61	0.01	1.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.17	6.17	< 0.005	< 0.005	—	6.19
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	22.3	75.8	98.1	2.30	0.06	—	172
Waste	—	—	—	—	—	—	—	—	—	—	—	25.5	0.00	25.5	2.55	0.00	—	89.3
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	51.4	51.4
Stationary	0.08	0.07	0.31	0.19	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	34.3	34.3	< 0.005	< 0.005	0.00	34.4
Total	0.83	1.98	3.96	5.63	0.03	0.06	1.56	1.62	0.06	0.41	0.47	47.9	3,462	3,510	4.98	0.47	56.7	3,832

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Refrigera Warehouse-No Rail	1.59	1.44	0.84	15.2	0.03	0.02	3.22	3.24	0.02	0.81	0.83	—	3,317	3,317	0.13	0.09	11.6	3,357
User Defined Industrial	1.63	0.68	23.2	12.4	0.21	0.31	7.76	8.07	0.30	2.09	2.39	—	22,584	22,584	0.87	3.12	83.1	23,618
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	3.22	2.12	24.0	27.6	0.24	0.33	11.0	11.3	0.31	2.90	3.22	—	25,901	25,901	1.01	3.20	94.7	26,975
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	1.58	1.44	0.95	13.7	0.03	0.02	3.22	3.24	0.02	0.81	0.83	—	3,152	3,152	0.14	0.09	0.30	3,183
User Defined Industrial	1.61	0.66	24.1	12.3	0.21	0.31	7.76	8.07	0.30	2.09	2.39	—	22,587	22,587	0.87	3.12	2.16	23,541
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	3.19	2.10	25.1	26.1	0.24	0.33	11.0	11.3	0.31	2.90	3.22	—	25,739	25,739	1.01	3.21	2.46	26,725
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	0.22	0.20	0.14	2.03	< 0.005	< 0.005	0.46	0.46	< 0.005	0.12	0.12	—	415	415	0.02	0.01	0.65	420

User Defined Industrial	0.23	0.10	3.50	1.76	0.03	0.04	1.10	1.14	0.04	0.30	0.34	—	2,931	2,931	0.11	0.41	4.66	3,059
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.46	0.30	3.64	3.79	0.03	0.05	1.56	1.60	0.04	0.41	0.46	—	3,346	3,346	0.13	0.42	5.31	3,479

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	2.35	2.17	0.11	13.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	54.4	54.4	< 0.005	< 0.005	—	54.6

Total	2.35	9.51	0.11	13.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	54.4	54.4	< 0.005	< 0.005	—	54.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	7.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	1.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.29	0.27	0.01	1.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.17	6.17	< 0.005	< 0.005	—	6.19
Total	0.29	1.61	0.01	1.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.17	6.17	< 0.005	< 0.005	—	6.19

4.4. Water Emissions by Land Use

4.4.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Refrigera Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	22.3	75.8	98.1	2.30	0.06	—	172

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	22.3	75.8	98.1	2.30	0.06	—	172

4.5. Waste Emissions by Land Use

4.5.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	154	0.00	154	15.4	0.00	—	539
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	154	0.00	154	15.4	0.00	—	539

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	154	0.00	154	15.4	0.00	—	539
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	154	0.00	154	15.4	0.00	—	539
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	25.5	0.00	25.5	2.55	0.00	—	89.3
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	25.5	0.00	25.5	2.55	0.00	—	89.3

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	310	310
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	310	310
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	310	310
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	310	310
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	51.4	51.4
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	51.4	51.4

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.27	0.25	0.69	0.63	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	0.00	126	126	0.01	< 0.005	0.00	126
Emergency Generator	1.35	1.23	5.50	3.14	0.01	0.18	0.00	0.18	0.18	0.00	0.18	0.00	630	630	0.03	< 0.005	0.00	632
Total	1.62	1.48	6.19	3.77	0.01	0.22	0.00	0.22	0.22	0.00	0.22	0.00	756	756	0.03	0.01	0.00	758

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.27	0.25	0.69	0.63	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	0.00	126	126	0.01	< 0.005	0.00	126
Emergency Generator	1.35	1.23	5.50	3.14	0.01	0.18	0.00	0.18	0.18	0.00	0.18	0.00	630	630	0.03	< 0.005	0.00	632
Total	1.62	1.48	6.19	3.77	0.01	0.22	0.00	0.22	0.22	0.00	0.22	0.00	756	756	0.03	0.01	0.00	758
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.01	0.01	0.03	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	5.71	5.71	< 0.005	< 0.005	0.00	5.73
Emergency Generator	0.07	0.06	0.28	0.16	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	28.6	28.6	< 0.005	< 0.005	0.00	28.7
Total	0.08	0.07	0.31	0.19	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	34.3	34.3	< 0.005	< 0.005	0.00	34.4

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
Refrigerated Warehouse-No Rail	418	36.4	167	119,593	4,598	401	1,839	1,315,524
User Defined Industrial	230	20.0	92.0	65,804	8,740	761	3,496	2,500,549
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

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)
0	0.00	456,516	152,172	18,757

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)
Refrigerated Warehouse-No Rail	0.00	349	0.0330	0.0040	0.00
User Defined Industrial	0.00	349	0.0330	0.0040	0.00
Parking Lot	0.00	349	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	349	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Refrigerated Warehouse-No Rail	70,379,550	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Refrigerated Warehouse-No Rail	286	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	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
Refrigerated Warehouse-No Rail	Cold storage	User Defined	150	7.50	7.50	7.50	25.0

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

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
Fire Pump	Diesel	1.00	0.50	50.0	300	0.73
Emergency Generator	Diesel	1.00	0.50	50.0	1,500	0.73

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

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	6.75	annual days of extreme heat
Extreme Precipitation	4.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	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 (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
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	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A

Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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 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	29.9
AQ-PM	83.0
AQ-DPM	64.6
Drinking Water	34.7
Lead Risk Housing	93.7
Pesticides	41.1
Toxic Releases	95.5
Traffic	52.6
Effect Indicators	—
CleanUp Sites	73.4
Groundwater	97.7
Haz Waste Facilities/Generators	97.4
Impaired Water Bodies	66.7
Solid Waste	93.2
Sensitive Population	—
Asthma	91.1
Cardio-vascular	89.0
Low Birth Weights	85.5
Socioeconomic Factor Indicators	—
Education	78.8
Housing	80.7
Linguistic	54.6
Poverty	67.2

Unemployment	60.6

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	32.60618504
Employed	27.51186963
Median HI	42.25587065
Education	—
Bachelor's or higher	18.42679328
High school enrollment	100
Preschool enrollment	36.10932888
Transportation	—
Auto Access	64.27563198
Active commuting	62.96676505
Social	—
2-parent households	24.09854998
Voting	9.354548954
Neighborhood	—
Alcohol availability	10.88156037
Park access	36.08366483
Retail density	68.71551392
Supermarket access	88.31002181
Tree canopy	37.89298088
Housing	—
Homeownership	47.09354549

Housing habitability	21.81444886
Low-inc homeowner severe housing cost burden	7.827537534
Low-inc renter severe housing cost burden	66.09778006
Uncrowded housing	25.445913
Health Outcomes	—
Insured adults	22.85384319
Arthritis	73.2
Asthma ER Admissions	11.6
High Blood Pressure	74.3
Cancer (excluding skin)	80.0
Asthma	34.7
Coronary Heart Disease	66.7
Chronic Obstructive Pulmonary Disease	45.1
Diagnosed Diabetes	33.2
Life Expectancy at Birth	24.0
Cognitively Disabled	35.0
Physically Disabled	25.6
Heart Attack ER Admissions	19.5
Mental Health Not Good	27.0
Chronic Kidney Disease	55.3
Obesity	30.7
Pedestrian Injuries	19.6
Physical Health Not Good	30.0
Stroke	45.2
Health Risk Behaviors	—
Binge Drinking	60.3
Current Smoker	25.4

No Leisure Time for Physical Activity	31.1
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	53.3
Elderly	86.8
English Speaking	28.6
Foreign-born	66.4
Outdoor Workers	40.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	18.0
Traffic Density	74.9
Traffic Access	23.0
Other Indices	—
Hardship	77.0
Other Decision Support	—
2016 Voting	3.6

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	99.0
Healthy Places Index Score for Project Location (b)	29.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
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 & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Total Project area is 14.16 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis
Operations: Energy Use	Project energy demand will be offset with solar. Project will not utilize natural gas.
Operations: Refrigerants	As of 1 January 2022, new commercial refrigeration equipment may not use refrigerants with a GWP of 150 or greater. Further, R-404A (the CalEEMod default) is unacceptable for new supermarket and cold storage systems as of 1 January 2019 and 2023, respectively.

Cherry Avenue Warehouse (Operations) Option 6 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	Cherry Avenue Warehouse (Operations) Option 6
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.30
Precipitation (days)	17.4
Location	5900 Cherry Ave, Long Beach, CA 90805, USA
County	Los Angeles-South Coast
City	Long Beach
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4714
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Long Beach Gas & Oil
App Version	2022.1.1.21

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
Manufacturing	76.1	1000sqft	1.75	76,086	0.00	—	—	—

User Defined Industrial	76.1	User Defined Unit	0.00	0.00	0.00	—	—	—
Unrefrigerated Warehouse-No Rail	228	1000sqft	5.24	228,258	0.00	—	—	—
User Defined Industrial	228	User Defined Unit	0.00	0.00	0.00	—	—	—
Parking Lot	338	Space	1.19	0.00	0.00	—	—	—
Other Asphalt Surfaces	261	1000sqft	5.99	0.00	0.00	—	—	—

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.	6.34	12.4	22.3	44.5	0.22	0.37	10.3	10.7	0.35	2.71	3.06	301	24,469	24,771	31.5	3.19	81.7	26,591
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.97	10.3	23.1	29.2	0.22	0.35	10.3	10.7	0.34	2.71	3.04	301	24,188	24,490	31.5	3.21	9.05	26,241
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.35	10.8	16.9	31.1	0.17	0.24	7.70	7.94	0.23	2.02	2.24	301	18,153	18,454	31.2	2.47	31.2	20,003
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	0.79	1.97	3.08	5.67	0.03	0.04	1.40	1.45	0.04	0.37	0.41	49.9	3,005	3,055	5.17	0.41	5.16	3,312

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	3.45	2.44	20.8	30.0	0.22	0.28	10.3	10.6	0.26	2.71	2.97	—	23,705	23,705	0.94	2.86	74.6	24,655
Area	2.35	9.51	0.11	13.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	54.4	54.4	< 0.005	< 0.005	—	54.6
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Waste	—	—	—	—	—	—	—	—	—	—	—	166	0.00	166	16.6	0.00	—	582
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.11	7.11
Stationary	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	6.34	12.4	22.3	44.5	0.22	0.37	10.3	10.7	0.35	2.71	3.06	301	24,469	24,771	31.5	3.19	81.7	26,591
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.43	2.42	21.7	28.0	0.22	0.28	10.3	10.6	0.26	2.71	2.97	—	23,479	23,479	0.95	2.87	1.93	24,360
Area	—	7.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Waste	—	—	—	—	—	—	—	—	—	—	—	166	0.00	166	16.6	0.00	—	582
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.11	7.11
Stationary	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	3.97	10.3	23.1	29.2	0.22	0.35	10.3	10.7	0.34	2.71	3.04	301	24,188	24,490	31.5	3.21	9.05	26,241

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.59	1.83	16.4	21.6	0.16	0.21	7.70	7.90	0.20	2.02	2.21	—	17,589	17,589	0.71	2.14	24.1	18,268
Area	1.61	8.82	0.08	9.06	< 0.005	0.02	—	0.02	0.01	—	0.01	—	37.3	37.3	< 0.005	< 0.005	—	37.4
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Waste	—	—	—	—	—	—	—	—	—	—	—	166	0.00	166	16.6	0.00	—	582
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.11	7.11
Stationary	0.15	0.13	0.38	0.34	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	69.0	69.0	< 0.005	< 0.005	0.00	69.2
Total	4.35	10.8	16.9	31.1	0.17	0.24	7.70	7.94	0.23	2.02	2.24	301	18,153	18,454	31.2	2.47	31.2	20,003
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.47	0.33	3.00	3.95	0.03	0.04	1.40	1.44	0.04	0.37	0.40	—	2,912	2,912	0.12	0.35	3.99	3,024
Area	0.29	1.61	0.01	1.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.17	6.17	< 0.005	< 0.005	—	6.19
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	22.3	75.8	98.1	2.30	0.06	—	172
Waste	—	—	—	—	—	—	—	—	—	—	—	27.6	0.00	27.6	2.75	0.00	—	96.4
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.18	1.18
Stationary	0.03	0.02	0.07	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	11.4	11.4	< 0.005	< 0.005	0.00	11.5
Total	0.79	1.97	3.08	5.67	0.03	0.04	1.40	1.45	0.04	0.37	0.41	49.9	3,005	3,055	5.17	0.41	5.16	3,312

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	1.24	1.13	0.66	11.9	0.03	0.01	2.53	2.54	0.01	0.64	0.65	—	2,603	2,603	0.10	0.07	9.12	2,635
User Defined Industrial	1.24	0.43	19.6	8.86	0.18	0.25	5.85	6.10	0.24	1.57	1.81	—	19,087	19,087	0.76	2.74	58.4	19,980
Unrefrigerated Warehouse-No Rail	0.96	0.88	0.51	9.24	0.02	0.01	1.96	1.97	0.01	0.49	0.50	—	2,016	2,016	0.08	0.05	7.07	2,040
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	3.45	2.44	20.8	30.0	0.22	0.28	10.3	10.6	0.26	2.71	2.97	—	23,705	23,705	0.94	2.86	74.6	24,655
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	1.24	1.13	0.75	10.8	0.02	0.01	2.53	2.54	0.01	0.64	0.65	—	2,473	2,473	0.11	0.07	0.24	2,498
User Defined Industrial	1.23	0.42	20.4	8.85	0.18	0.25	5.85	6.11	0.24	1.57	1.81	—	19,090	19,090	0.76	2.74	1.51	19,927
Unrefrigerated Warehouse-No Rail	0.96	0.87	0.58	8.35	0.02	0.01	1.96	1.97	0.01	0.49	0.50	—	1,915	1,915	0.08	0.06	0.18	1,935
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	3.43	2.42	21.7	28.0	0.22	0.28	10.3	10.6	0.26	2.71	2.97	—	23,479	23,479	0.95	2.87	1.93	24,360
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.18	0.16	0.11	1.60	< 0.005	< 0.005	0.36	0.36	< 0.005	0.09	0.09	—	327	327	0.01	0.01	0.51	331
User Defined Industrial	0.17	0.06	2.81	1.20	0.02	0.03	0.79	0.82	0.03	0.21	0.24	—	2,349	2,349	0.09	0.34	3.10	2,455
Unrefrigerated Warehouse-No Rail	0.13	0.12	0.08	1.15	< 0.005	< 0.005	0.26	0.26	< 0.005	0.07	0.07	—	235	235	0.01	0.01	0.37	238
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.47	0.33	3.00	3.95	0.03	0.04	1.40	1.44	0.04	0.37	0.40	—	2,912	2,912	0.12	0.35	3.99	3,024

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	2.35	2.17	0.11	13.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	54.4	54.4	< 0.005	< 0.005	—	54.6
Total	2.35	9.51	0.11	13.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	54.4	54.4	< 0.005	< 0.005	—	54.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	7.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	1.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.29	0.27	0.01	1.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.17	6.17	< 0.005	< 0.005	—	6.19
Total	0.29	1.61	0.01	1.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.17	6.17	< 0.005	< 0.005	—	6.19

4.4. Water Emissions by Land Use

4.4.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	33.7	114	148	3.47	0.08	—	260
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	101	343	444	10.4	0.25	—	779
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	33.7	114	148	3.47	0.08	—	260
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	101	343	444	10.4	0.25	—	779
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	5.58	18.9	24.5	0.57	0.01	—	43.0
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	16.7	56.8	73.6	1.72	0.04	—	129
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	22.3	75.8	98.1	2.30	0.06	—	172

4.5. Waste Emissions by Land Use

4.5.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	50.8	0.00	50.8	5.08	0.00	—	178
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	116	0.00	116	11.6	0.00	—	405
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	166	0.00	166	16.6	0.00	—	582
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Manufacturing	—	—	—	—	—	—	—	—	—	—	—	50.8	0.00	50.8	5.08	0.00	—	178
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	116	0.00	116	11.6	0.00	—	405
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	166	0.00	166	16.6	0.00	—	582
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	8.42	0.00	8.42	0.84	0.00	—	29.5
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	19.1	0.00	19.1	1.91	0.00	—	67.0
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	27.6	0.00	27.6	2.75	0.00	—	96.4

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.11	7.11
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.11	7.11
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.11	7.11
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.11	7.11
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.18	1.18
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.18	1.18

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Fire Pump	0.03	0.02	0.07	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	11.4	11.4	< 0.005	< 0.005	0.00	11.5
Total	0.03	0.02	0.07	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	11.4	11.4	< 0.005	< 0.005	0.00	11.5

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
Manufacturing	328	102	67.9	94,387	3,608	1,125	747	1,038,257
User Defined Industrial	35.7	11.1	7.40	10,277	1,357	423	281	390,541
Unrefrigerated Warehouse-No Rail	254	22.2	8.88	67,843	2,794	244	97.7	746,270
User Defined Industrial	138	12.1	4.82	36,877	5,247	458	183	1,401,335
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

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)
0	0.00	456,516	152,172	18,757

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)
Manufacturing	0.00	349	0.0330	0.0040	0.00
User Defined Industrial	0.00	349	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	0.00	349	0.0330	0.0040	0.00
User Defined Industrial	0.00	349	0.0330	0.0040	0.00
Parking Lot	0.00	349	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	349	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Manufacturing	17,594,888	0.00
User Defined Industrial	0.00	0.00
Unrefrigerated Warehouse-No Rail	52,784,663	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Manufacturing	94.3	—
User Defined Industrial	0.00	—
Unrefrigerated Warehouse-No Rail	215	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	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
Manufacturing	Other commercial A/C and heat pumps	User Defined	750	0.30	4.00	4.00	18.0

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

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

Fire Pump	Diesel	1.00	0.50	50.0	300	0.73

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

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	6.75	annual days of extreme heat
Extreme Precipitation	4.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	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 (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
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	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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 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	29.9

AQ-PM	83.0
AQ-DPM	64.6
Drinking Water	34.7
Lead Risk Housing	93.7
Pesticides	41.1
Toxic Releases	95.5
Traffic	52.6
Effect Indicators	—
CleanUp Sites	73.4
Groundwater	97.7
Haz Waste Facilities/Generators	97.4
Impaired Water Bodies	66.7
Solid Waste	93.2
Sensitive Population	—
Asthma	91.1
Cardio-vascular	89.0
Low Birth Weights	85.5
Socioeconomic Factor Indicators	—
Education	78.8
Housing	80.7
Linguistic	54.6
Poverty	67.2
Unemployment	60.6

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	32.60618504
Employed	27.51186963
Median HI	42.25587065
Education	—
Bachelor's or higher	18.42679328
High school enrollment	100
Preschool enrollment	36.10932888
Transportation	—
Auto Access	64.27563198
Active commuting	62.96676505
Social	—
2-parent households	24.09854998
Voting	9.354548954
Neighborhood	—
Alcohol availability	10.88156037
Park access	36.08366483
Retail density	68.71551392
Supermarket access	88.31002181
Tree canopy	37.89298088
Housing	—
Homeownership	47.09354549
Housing habitability	21.81444886
Low-inc homeowner severe housing cost burden	7.827537534
Low-inc renter severe housing cost burden	66.09778006
Uncrowded housing	25.445913
Health Outcomes	—

Insured adults	22.85384319
Arthritis	73.2
Asthma ER Admissions	11.6
High Blood Pressure	74.3
Cancer (excluding skin)	80.0
Asthma	34.7
Coronary Heart Disease	66.7
Chronic Obstructive Pulmonary Disease	45.1
Diagnosed Diabetes	33.2
Life Expectancy at Birth	24.0
Cognitively Disabled	35.0
Physically Disabled	25.6
Heart Attack ER Admissions	19.5
Mental Health Not Good	27.0
Chronic Kidney Disease	55.3
Obesity	30.7
Pedestrian Injuries	19.6
Physical Health Not Good	30.0
Stroke	45.2
Health Risk Behaviors	—
Binge Drinking	60.3
Current Smoker	25.4
No Leisure Time for Physical Activity	31.1
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	53.3

Elderly	86.8
English Speaking	28.6
Foreign-born	66.4
Outdoor Workers	40.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	18.0
Traffic Density	74.9
Traffic Access	23.0
Other Indices	—
Hardship	77.0
Other Decision Support	—
2016 Voting	3.6

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	99.0
Healthy Places Index Score for Project Location (b)	29.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
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 & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Total Project area is 14.16 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis
Operations: Energy Use	Project energy demand will be offset with solar. Project will not utilize natural gas.
Operations: Refrigerants	As of 1 January 2022, new commercial refrigeration equipment may not use refrigerants with a GWP of 150 or greater. Further, R-404A (the CalEEMod default) is unacceptable for new supermarket and cold storage systems as of 1 January 2019 and 2023, respectively. Beginning 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater.

Cherry Avenue Warehouse (Operations) Option 7 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	Cherry Avenue Warehouse (Operations) Option 7
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.30
Precipitation (days)	17.4
Location	5900 Cherry Ave, Long Beach, CA 90805, USA
County	Los Angeles-South Coast
City	Long Beach
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4714
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Long Beach Gas & Oil
App Version	2022.1.1.21

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
Manufacturing	76.1	1000sqft	1.75	76,086	0.00	—	—	—

User Defined Industrial	76.1	User Defined Unit	0.00	0.00	0.00	—	—	—
Unrefrigerated Warehouse-No Rail	228	1000sqft	5.24	228,258	0.00	—	—	—
User Defined Industrial	228	User Defined Unit	0.00	0.00	0.00	—	—	—
Parking Lot	338	Space	1.19	0.00	0.00	—	—	—
Other Asphalt Surfaces	261	1000sqft	5.99	0.00	0.00	—	—	—

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.	5.79	12.3	12.6	40.7	0.14	0.25	7.57	7.82	0.24	1.96	2.20	301	15,185	15,487	31.1	1.85	53.3	16,868
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.42	10.1	13.1	25.4	0.14	0.23	7.57	7.80	0.22	1.96	2.18	301	14,897	15,198	31.1	1.86	8.31	16,537
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.17	10.8	10.6	30.2	0.12	0.17	6.32	6.49	0.16	1.64	1.80	301	12,651	12,952	31.0	1.63	24.0	14,238
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	0.76	1.98	1.93	5.51	0.02	0.03	1.15	1.18	0.03	0.30	0.33	49.9	2,094	2,144	5.13	0.27	3.98	2,357

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	2.90	2.29	11.1	26.2	0.14	0.15	7.57	7.72	0.15	1.96	2.11	—	14,422	14,422	0.57	1.51	46.2	14,932
Area	2.35	9.51	0.11	13.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	54.4	54.4	< 0.005	< 0.005	—	54.6
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Waste	—	—	—	—	—	—	—	—	—	—	—	166	0.00	166	16.6	0.00	—	582
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.11	7.11
Stationary	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	5.79	12.3	12.6	40.7	0.14	0.25	7.57	7.82	0.24	1.96	2.20	301	15,185	15,487	31.1	1.85	53.3	16,868
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.88	2.27	11.7	24.1	0.13	0.15	7.57	7.72	0.15	1.96	2.11	—	14,187	14,187	0.58	1.52	1.20	14,656
Area	—	7.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Waste	—	—	—	—	—	—	—	—	—	—	—	166	0.00	166	16.6	0.00	—	582
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.11	7.11
Stationary	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	3.42	10.1	13.1	25.4	0.14	0.23	7.57	7.80	0.22	1.96	2.18	301	14,897	15,198	31.1	1.86	8.31	16,537

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.41	1.89	10.1	20.8	0.11	0.13	6.32	6.45	0.12	1.64	1.76	—	12,087	12,087	0.49	1.30	16.9	12,503
Area	1.61	8.82	0.08	9.06	< 0.005	0.02	—	0.02	0.01	—	0.01	—	37.3	37.3	< 0.005	< 0.005	—	37.4
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Waste	—	—	—	—	—	—	—	—	—	—	—	166	0.00	166	16.6	0.00	—	582
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.11	7.11	
Stationary	0.15	0.13	0.38	0.34	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	69.0	69.0	< 0.005	< 0.005	0.00	69.2
Total	4.17	10.8	10.6	30.2	0.12	0.17	6.32	6.49	0.16	1.64	1.80	301	12,651	12,952	31.0	1.63	24.0	14,238
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.44	0.35	1.84	3.80	0.02	0.02	1.15	1.18	0.02	0.30	0.32	—	2,001	2,001	0.08	0.21	2.80	2,070
Area	0.29	1.61	0.01	1.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.17	6.17	< 0.005	< 0.005	—	6.19
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	22.3	75.8	98.1	2.30	0.06	—	172
Waste	—	—	—	—	—	—	—	—	—	—	—	27.6	0.00	27.6	2.75	0.00	—	96.4
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.18	1.18	
Stationary	0.03	0.02	0.07	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	11.4	11.4	< 0.005	< 0.005	0.00	11.5
Total	0.76	1.98	1.93	5.51	0.02	0.03	1.15	1.18	0.03	0.30	0.33	49.9	2,094	2,144	5.13	0.27	3.98	2,357

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	1.24	1.13	0.66	11.9	0.03	0.01	2.53	2.54	0.01	0.64	0.65	—	2,603	2,603	0.10	0.07	9.12	2,635
User Defined Industrial	0.63	0.22	9.93	4.48	0.09	0.13	2.96	3.09	0.12	0.80	0.92	—	9,676	9,676	0.38	1.39	29.6	10,129
Unrefrigerated Warehouse-No Rail	1.02	0.93	0.55	9.83	0.02	0.01	2.08	2.09	0.01	0.53	0.54	—	2,143	2,143	0.09	0.06	7.51	2,169
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	2.90	2.29	11.1	26.2	0.14	0.15	7.57	7.72	0.15	1.96	2.11	—	14,422	14,422	0.57	1.51	46.2	14,932
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	1.24	1.13	0.75	10.8	0.02	0.01	2.53	2.54	0.01	0.64	0.65	—	2,473	2,473	0.11	0.07	0.24	2,498
User Defined Industrial	0.62	0.21	10.3	4.48	0.09	0.13	2.96	3.09	0.12	0.80	0.92	—	9,678	9,678	0.38	1.39	0.77	10,102
Unrefrigerated Warehouse-No Rail	1.02	0.93	0.62	8.88	0.02	0.01	2.08	2.09	0.01	0.53	0.54	—	2,036	2,036	0.09	0.06	0.19	2,056
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	2.88	2.27	11.7	24.1	0.13	0.15	7.57	7.72	0.15	1.96	2.11	—	14,187	14,187	0.58	1.52	1.20	14,656
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.18	0.16	0.11	1.60	< 0.005	< 0.005	0.36	0.36	< 0.005	0.09	0.09	—	327	327	0.01	0.01	0.51	331
User Defined Industrial	0.10	0.03	1.63	0.70	0.01	0.02	0.46	0.48	0.02	0.12	0.14	—	1,367	1,367	0.05	0.20	1.80	1,429
Unrefrigerated Warehouse-No Rail	0.17	0.15	0.10	1.50	< 0.005	< 0.005	0.34	0.34	< 0.005	0.09	0.09	—	307	307	0.01	0.01	0.48	310
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.44	0.35	1.84	3.80	0.02	0.02	1.15	1.18	0.02	0.30	0.32	—	2,001	2,001	0.08	0.21	2.80	2,070

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	2.35	2.17	0.11	13.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	54.4	54.4	< 0.005	< 0.005	—	54.6
Total	2.35	9.51	0.11	13.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	54.4	54.4	< 0.005	< 0.005	—	54.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	7.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	1.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.29	0.27	0.01	1.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.17	6.17	< 0.005	< 0.005	—	6.19
Total	0.29	1.61	0.01	1.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.17	6.17	< 0.005	< 0.005	—	6.19

4.4. Water Emissions by Land Use

4.4.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	33.7	114	148	3.47	0.08	—	260
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	101	343	444	10.4	0.25	—	779
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	33.7	114	148	3.47	0.08	—	260
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	101	343	444	10.4	0.25	—	779
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	5.58	18.9	24.5	0.57	0.01	—	43.0
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	16.7	56.8	73.6	1.72	0.04	—	129
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	22.3	75.8	98.1	2.30	0.06	—	172

4.5. Waste Emissions by Land Use

4.5.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	50.8	0.00	50.8	5.08	0.00	—	178
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	116	0.00	116	11.6	0.00	—	405
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	166	0.00	166	16.6	0.00	—	582
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Manufacturing	—	—	—	—	—	—	—	—	—	—	—	50.8	0.00	50.8	5.08	0.00	—	178
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	116	0.00	116	11.6	0.00	—	405
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	166	0.00	166	16.6	0.00	—	582
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	8.42	0.00	8.42	0.84	0.00	—	29.5
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	19.1	0.00	19.1	1.91	0.00	—	67.0
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	27.6	0.00	27.6	2.75	0.00	—	96.4

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.11	7.11
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.11	7.11
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.11	7.11
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.11	7.11
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.18	1.18
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.18	1.18

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Fire Pump	0.03	0.02	0.07	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	11.4	11.4	< 0.005	< 0.005	0.00	11.5
Total	0.03	0.02	0.07	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	11.4	11.4	< 0.005	< 0.005	0.00	11.5

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
Manufacturing	328	102	67.9	94,387	3,608	1,125	747	1,038,257
User Defined Industrial	35.7	11.1	7.40	10,277	1,357	423	281	390,541
Unrefrigerated Warehouse-No Rail	270	180	166	88,436	2,970	1,977	1,829	972,792
User Defined Industrial	52.4	34.9	32.3	17,159	1,991	1,325	1,226	652,048
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

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)
0	0.00	456,516	152,172	18,757

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)
Manufacturing	0.00	349	0.0330	0.0040	0.00
User Defined Industrial	0.00	349	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	0.00	349	0.0330	0.0040	0.00
User Defined Industrial	0.00	349	0.0330	0.0040	0.00
Parking Lot	0.00	349	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	349	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Manufacturing	17,594,888	0.00
User Defined Industrial	0.00	0.00
Unrefrigerated Warehouse-No Rail	52,784,663	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Manufacturing	94.3	—
User Defined Industrial	0.00	—
Unrefrigerated Warehouse-No Rail	215	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	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
Manufacturing	Other commercial A/C and heat pumps	User Defined	750	0.30	4.00	4.00	18.0

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

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

Fire Pump	Diesel	1.00	0.50	50.0	300	0.73

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

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	6.75	annual days of extreme heat
Extreme Precipitation	4.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	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 (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
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	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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 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	29.9

AQ-PM	83.0
AQ-DPM	64.6
Drinking Water	34.7
Lead Risk Housing	93.7
Pesticides	41.1
Toxic Releases	95.5
Traffic	52.6
Effect Indicators	—
CleanUp Sites	73.4
Groundwater	97.7
Haz Waste Facilities/Generators	97.4
Impaired Water Bodies	66.7
Solid Waste	93.2
Sensitive Population	—
Asthma	91.1
Cardio-vascular	89.0
Low Birth Weights	85.5
Socioeconomic Factor Indicators	—
Education	78.8
Housing	80.7
Linguistic	54.6
Poverty	67.2
Unemployment	60.6

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	32.60618504
Employed	27.51186963
Median HI	42.25587065
Education	—
Bachelor's or higher	18.42679328
High school enrollment	100
Preschool enrollment	36.10932888
Transportation	—
Auto Access	64.27563198
Active commuting	62.96676505
Social	—
2-parent households	24.09854998
Voting	9.354548954
Neighborhood	—
Alcohol availability	10.88156037
Park access	36.08366483
Retail density	68.71551392
Supermarket access	88.31002181
Tree canopy	37.89298088
Housing	—
Homeownership	47.09354549
Housing habitability	21.81444886
Low-inc homeowner severe housing cost burden	7.827537534
Low-inc renter severe housing cost burden	66.09778006
Uncrowded housing	25.445913
Health Outcomes	—

Insured adults	22.85384319
Arthritis	73.2
Asthma ER Admissions	11.6
High Blood Pressure	74.3
Cancer (excluding skin)	80.0
Asthma	34.7
Coronary Heart Disease	66.7
Chronic Obstructive Pulmonary Disease	45.1
Diagnosed Diabetes	33.2
Life Expectancy at Birth	24.0
Cognitively Disabled	35.0
Physically Disabled	25.6
Heart Attack ER Admissions	19.5
Mental Health Not Good	27.0
Chronic Kidney Disease	55.3
Obesity	30.7
Pedestrian Injuries	19.6
Physical Health Not Good	30.0
Stroke	45.2
Health Risk Behaviors	—
Binge Drinking	60.3
Current Smoker	25.4
No Leisure Time for Physical Activity	31.1
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	53.3

Elderly	86.8
English Speaking	28.6
Foreign-born	66.4
Outdoor Workers	40.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	18.0
Traffic Density	74.9
Traffic Access	23.0
Other Indices	—
Hardship	77.0
Other Decision Support	—
2016 Voting	3.6

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	99.0
Healthy Places Index Score for Project Location (b)	29.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
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 & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Total Project area is 14.16 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis
Operations: Energy Use	Project energy demand will be offset with solar. Project will not utilize natural gas.
Operations: Refrigerants	As of 1 January 2022, new commercial refrigeration equipment may not use refrigerants with a GWP of 150 or greater. Further, R-404A (the CalEEMod default) is unacceptable for new supermarket and cold storage systems as of 1 January 2019 and 2023, respectively. Beginning 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater.

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APPENDIX 3.4:

CALEEMOD PROJECT LOCALIZED OPERATIONAL EMISSIONS MODEL OUTPUTS

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Cherry Avenue Warehouse (Localized Operations) Option 1 Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Cherry Avenue Warehouse (Localized Operations) Option 1
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.30
Precipitation (days)	17.4
Location	5900 Cherry Ave, Long Beach, CA 90805, USA
County	Los Angeles-South Coast
City	Long Beach
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4714
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Long Beach Gas & Oil
App Version	2022.1.1.21

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
Manufacturing	304	1000sqft	6.99	304,344	0.00	—	—	—

User Defined Industrial	304	User Defined Unit	0.00	0.00	0.00	—	—	—
Parking Lot	338	Space	1.19	0.00	0.00	—	—	—
Other Asphalt Surfaces	261	1000sqft	5.99	0.00	0.00	—	—	—

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.	6.53	13.5	3.84	25.2	0.01	0.11	0.52	0.63	0.10	0.13	0.23	338	1,798	2,136	34.5	0.49	30.7	3,174
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.17	11.3	3.88	13.3	0.01	0.08	0.52	0.60	0.08	0.13	0.22	338	1,725	2,063	34.5	0.49	28.5	3,102
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.59	11.6	2.40	18.7	0.01	0.05	0.41	0.45	0.04	0.10	0.14	338	1,368	1,707	34.4	0.46	29.2	2,733
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.84	2.12	0.44	3.42	< 0.005	0.01	0.07	0.08	0.01	0.02	0.03	56.0	227	283	5.70	0.08	4.84	453

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	3.64	3.46	2.35	10.7	0.01	0.01	0.52	0.53	0.01	0.13	0.14	—	1,034	1,034	0.27	0.15	2.27	1,088
Area	2.35	9.51	0.11	13.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	54.4	54.4	< 0.005	< 0.005	—	54.6
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Waste	—	—	—	—	—	—	—	—	—	—	—	203	0.00	203	20.3	0.00	—	712
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28.5	28.5
Stationary	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	6.53	13.5	3.84	25.2	0.01	0.11	0.52	0.63	0.10	0.13	0.23	338	1,798	2,136	34.5	0.49	30.7	3,174
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.63	3.44	2.51	12.1	0.01	0.01	0.52	0.53	0.01	0.13	0.14	—	1,016	1,016	0.29	0.16	0.06	1,070
Area	—	7.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Waste	—	—	—	—	—	—	—	—	—	—	—	203	0.00	203	20.3	0.00	—	712
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28.5	28.5
Stationary	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	4.17	11.3	3.88	13.3	0.01	0.08	0.52	0.60	0.08	0.13	0.22	338	1,725	2,063	34.5	0.49	28.5	3,102
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.83	2.68	1.94	9.33	0.01	0.01	0.41	0.41	0.01	0.10	0.11	—	805	805	0.23	0.12	0.77	848
Area	1.61	8.82	0.08	9.06	< 0.005	0.02	—	0.02	0.01	—	0.01	—	37.3	37.3	< 0.005	< 0.005	—	37.4

Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Waste	—	—	—	—	—	—	—	—	—	—	—	203	0.00	203	20.3	0.00	—	712
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28.5	28.5
Stationary	0.15	0.13	0.38	0.34	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	69.0	69.0	< 0.005	< 0.005	0.00	69.2
Total	4.59	11.6	2.40	18.7	0.01	0.05	0.41	0.45	0.04	0.10	0.14	338	1,368	1,707	34.4	0.46	29.2	2,733
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.52	0.49	0.35	1.70	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	—	133	133	0.04	0.02	0.13	140
Area	0.29	1.61	0.01	1.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.17	6.17	< 0.005	< 0.005	—	6.19
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	22.3	75.8	98.1	2.30	0.06	—	172
Waste	—	—	—	—	—	—	—	—	—	—	—	33.7	0.00	33.7	3.37	0.00	—	118
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.71	4.71
Stationary	0.03	0.02	0.07	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	11.4	11.4	< 0.005	< 0.005	0.00	11.5
Total	0.84	2.12	0.44	3.42	< 0.005	0.01	0.07	0.08	0.01	0.02	0.03	56.0	227	283	5.70	0.08	4.84	453

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Manufact	3.47	3.37	0.80	9.48	0.01	0.01	0.46	0.47	0.01	0.12	0.12	—	677	677	0.20	0.10	1.66	712
User Defined Industrial	0.17	0.09	1.56	1.23	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	356	356	0.07	0.06	0.61	376
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	3.64	3.46	2.35	10.7	0.01	0.01	0.52	0.53	0.01	0.13	0.14	—	1,034	1,034	0.27	0.15	2.27	1,088
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	3.47	3.36	0.88	10.8	0.01	0.01	0.46	0.47	0.01	0.12	0.12	—	657	657	0.22	0.10	0.04	693
User Defined Industrial	0.16	0.08	1.63	1.27	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	359	359	0.07	0.06	0.02	378
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	3.63	3.44	2.51	12.1	0.01	0.01	0.52	0.53	0.01	0.13	0.14	—	1,016	1,016	0.29	0.16	0.06	1,070
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.49	0.48	0.12	1.52	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	86.5	86.5	0.03	0.01	0.09	91.2
User Defined Industrial	0.02	0.01	0.23	0.18	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	46.7	46.7	0.01	0.01	0.03	49.2
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Total	0.52	0.49	0.35	1.70	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	—	133	133	0.04	0.02	0.13	140

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Total	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	2.35	2.17	0.11	13.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	54.4	54.4	< 0.005	< 0.005	—	54.6
Total	2.35	9.51	0.11	13.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	54.4	54.4	< 0.005	< 0.005	—	54.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	7.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	1.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.29	0.27	0.01	1.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.17	6.17	< 0.005	< 0.005	—	6.19
Total	0.29	1.61	0.01	1.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.17	6.17	< 0.005	< 0.005	—	6.19

4.4. Water Emissions by Land Use

4.4.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	22.3	75.8	98.1	2.30	0.06	—	172
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	22.3	75.8	98.1	2.30	0.06	—	172

4.5. Waste Emissions by Land Use

4.5.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	203	0.00	203	20.3	0.00	—	712
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	203	0.00	203	20.3	0.00	—	712

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	203	0.00	203	20.3	0.00	—	712
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	203	0.00	203	20.3	0.00	—	712
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	33.7	0.00	33.7	3.37	0.00	—	118
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	33.7	0.00	33.7	3.37	0.00	—	118

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28.5	28.5
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28.5	28.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28.5	28.5
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28.5	28.5
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.71	4.71
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.71	4.71

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.03	0.02	0.07	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	11.4	11.4	< 0.005	< 0.005	0.00	11.5
Total	0.03	0.02	0.07	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	11.4	11.4	< 0.005	< 0.005	0.00	11.5

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
Manufacturing	1,310	410	273	377,137	655	205	136	188,569

User Defined Industrial	138	43.2	28.7	39,727	69.0	21.6	14.4	19,864
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

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)
0	0.00	456,516	152,172	18,757

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)
Manufacturing	0.00	349	0.0330	0.0040	0.00
User Defined Industrial	0.00	349	0.0330	0.0040	0.00

Parking Lot	0.00	349	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	349	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Manufacturing	70,379,550	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Manufacturing	377	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	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
Manufacturing	Other commercial A/C and heat pumps	User Defined	750	0.30	4.00	4.00	18.0

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

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
Fire Pump	Diesel	1.00	0.50	50.0	300	0.73

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

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	6.75	annual days of extreme heat
Extreme Precipitation	4.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	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 (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
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	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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 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	29.9
AQ-PM	83.0
AQ-DPM	64.6
Drinking Water	34.7
Lead Risk Housing	93.7
Pesticides	41.1
Toxic Releases	95.5
Traffic	52.6
Effect Indicators	—
CleanUp Sites	73.4
Groundwater	97.7
Haz Waste Facilities/Generators	97.4
Impaired Water Bodies	66.7
Solid Waste	93.2
Sensitive Population	—
Asthma	91.1
Cardio-vascular	89.0
Low Birth Weights	85.5
Socioeconomic Factor Indicators	—

Education	78.8
Housing	80.7
Linguistic	54.6
Poverty	67.2
Unemployment	60.6

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	32.60618504
Employed	27.51186963
Median HI	42.25587065
Education	—
Bachelor's or higher	18.42679328
High school enrollment	100
Preschool enrollment	36.10932888
Transportation	—
Auto Access	64.27563198
Active commuting	62.96676505
Social	—
2-parent households	24.09854998
Voting	9.354548954
Neighborhood	—
Alcohol availability	10.88156037
Park access	36.08366483
Retail density	68.71551392

Supermarket access	88.31002181
Tree canopy	37.89298088
Housing	—
Homeownership	47.09354549
Housing habitability	21.81444886
Low-inc homeowner severe housing cost burden	7.827537534
Low-inc renter severe housing cost burden	66.09778006
Uncrowded housing	25.445913
Health Outcomes	—
Insured adults	22.85384319
Arthritis	73.2
Asthma ER Admissions	11.6
High Blood Pressure	74.3
Cancer (excluding skin)	80.0
Asthma	34.7
Coronary Heart Disease	66.7
Chronic Obstructive Pulmonary Disease	45.1
Diagnosed Diabetes	33.2
Life Expectancy at Birth	24.0
Cognitively Disabled	35.0
Physically Disabled	25.6
Heart Attack ER Admissions	19.5
Mental Health Not Good	27.0
Chronic Kidney Disease	55.3
Obesity	30.7
Pedestrian Injuries	19.6
Physical Health Not Good	30.0

Stroke	45.2
Health Risk Behaviors	—
Binge Drinking	60.3
Current Smoker	25.4
No Leisure Time for Physical Activity	31.1
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	53.3
Elderly	86.8
English Speaking	28.6
Foreign-born	66.4
Outdoor Workers	40.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	18.0
Traffic Density	74.9
Traffic Access	23.0
Other Indices	—
Hardship	77.0
Other Decision Support	—
2016 Voting	3.6

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	99.0
Healthy Places Index Score for Project Location (b)	29.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes

Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
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 & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Project site is 14.16 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis
Operations: Energy Use	Project energy demand will be offset with solar. Project will not utilize natural gas.
Operations: Refrigerants	As of 1 January 2022, new commercial refrigeration equipment may not use refrigerants with a GWP of 150 or greater. Further, R-404A (the CalEEMod default) is unacceptable for new supermarket and cold storage systems as of 1 January 2019 and 2023, respectively. Beginning 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater.

Cherry Avenue Warehouse (Localized Operations) Option 2 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	Cherry Avenue Warehouse (Localized Operations) Option 2
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.30
Precipitation (days)	17.4
Location	5900 Cherry Ave, Long Beach, CA 90805, USA
County	Los Angeles-South Coast
City	Long Beach
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4714
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Long Beach Gas & Oil
App Version	2022.1.1.21

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
General Heavy Industry	304	1000sqft	6.99	304,344	0.00	—	—	—

User Defined Industrial	304	User Defined Unit	0.00	0.00	0.00	—	—	—
Parking Lot	338	Space	1.19	0.00	0.00	—	—	—
Other Asphalt Surfaces	261	1000sqft	5.99	0.00	0.00	—	—	—

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.	6.81	13.8	3.26	25.6	0.01	0.11	0.54	0.65	0.10	0.14	0.24	338	1,714	2,052	34.5	0.47	30.6	3,086
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.45	11.6	3.28	13.9	0.01	0.08	0.54	0.62	0.08	0.14	0.22	338	1,638	1,977	34.5	0.48	28.5	3,011
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.08	12.1	2.06	20.0	0.01	0.05	0.46	0.50	0.04	0.12	0.16	338	1,368	1,706	34.4	0.46	29.3	2,733
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.93	2.22	0.38	3.66	< 0.005	0.01	0.08	0.09	0.01	0.02	0.03	56.0	226	282	5.70	0.08	4.85	452

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	3.92	3.77	1.77	11.1	0.01	0.01	0.54	0.55	0.01	0.14	0.15	—	950	950	0.26	0.14	2.18	1,000
Area	2.35	9.51	0.11	13.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	54.4	54.4	< 0.005	< 0.005	—	54.6
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Waste	—	—	—	—	—	—	—	—	—	—	—	203	0.00	203	20.3	0.00	—	712
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28.5	28.5
Stationary	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	6.81	13.8	3.26	25.6	0.01	0.11	0.54	0.65	0.10	0.14	0.24	338	1,714	2,052	34.5	0.47	30.6	3,086
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.91	3.74	1.90	12.6	0.01	0.01	0.54	0.55	0.01	0.14	0.15	—	929	929	0.29	0.14	0.06	979
Area	—	7.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Waste	—	—	—	—	—	—	—	—	—	—	—	203	0.00	203	20.3	0.00	—	712
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28.5	28.5
Stationary	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	4.45	11.6	3.28	13.9	0.01	0.08	0.54	0.62	0.08	0.14	0.22	338	1,638	1,977	34.5	0.48	28.5	3,011
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.32	3.18	1.61	10.6	0.01	0.01	0.46	0.47	0.01	0.12	0.13	—	804	804	0.24	0.12	0.81	847
Area	1.61	8.82	0.08	9.06	< 0.005	0.02	—	0.02	0.01	—	0.01	—	37.3	37.3	< 0.005	< 0.005	—	37.4

Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Waste	—	—	—	—	—	—	—	—	—	—	—	203	0.00	203	20.3	0.00	—	712
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28.5	28.5
Stationary	0.15	0.13	0.38	0.34	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	69.0	69.0	< 0.005	< 0.005	0.00	69.2
Total	5.08	12.1	2.06	20.0	0.01	0.05	0.46	0.50	0.04	0.12	0.16	338	1,368	1,706	34.4	0.46	29.3	2,733
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.61	0.58	0.29	1.94	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.02	—	133	133	0.04	0.02	0.13	140
Area	0.29	1.61	0.01	1.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.17	6.17	< 0.005	< 0.005	—	6.19
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	22.3	75.8	98.1	2.30	0.06	—	172
Waste	—	—	—	—	—	—	—	—	—	—	—	33.7	0.00	33.7	3.37	0.00	—	118
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.71	4.71
Stationary	0.03	0.02	0.07	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	11.4	11.4	< 0.005	< 0.005	0.00	11.5
Total	0.93	2.22	0.38	3.66	< 0.005	0.01	0.08	0.09	0.01	0.02	0.03	56.0	226	282	5.70	0.08	4.85	452

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Heavy Industry	3.82	3.71	0.88	10.4	0.01	0.01	0.50	0.51	0.01	0.13	0.14	—	746	746	0.22	0.11	1.82	784
User Defined Industrial	0.10	0.05	0.89	0.71	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	205	205	0.04	0.03	0.35	216
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	3.92	3.77	1.77	11.1	0.01	0.01	0.54	0.55	0.01	0.14	0.15	—	950	950	0.26	0.14	2.18	1,000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	3.82	3.70	0.97	11.9	0.01	0.01	0.50	0.51	0.01	0.13	0.14	—	723	723	0.24	0.11	0.05	762
User Defined Industrial	0.09	0.05	0.93	0.73	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	206	206	0.04	0.03	0.01	217
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	3.91	3.74	1.90	12.6	0.01	0.01	0.54	0.55	0.01	0.14	0.15	—	929	929	0.29	0.14	0.06	979
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	0.59	0.57	0.15	1.83	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	104	104	0.03	0.02	0.11	109
User Defined Industrial	0.01	0.01	0.14	0.11	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	29.3	29.3	0.01	< 0.005	0.02	30.8

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.61	0.58	0.29	1.94	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.02	—	133	133	0.04	0.02	0.13	140

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	2.35	2.17	0.11	13.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	54.4	54.4	< 0.005	< 0.005	—	54.6
Total	2.35	9.51	0.11	13.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	54.4	54.4	< 0.005	< 0.005	—	54.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	7.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	1.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.29	0.27	0.01	1.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.17	6.17	< 0.005	< 0.005	—	6.19
Total	0.29	1.61	0.01	1.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.17	6.17	< 0.005	< 0.005	—	6.19

4.4. Water Emissions by Land Use

4.4.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	22.3	75.8	98.1	2.30	0.06	—	172
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	22.3	75.8	98.1	2.30	0.06	—	172

4.5. Waste Emissions by Land Use

4.5.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	203	0.00	203	20.3	0.00	—	712
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	203	0.00	203	20.3	0.00	—	712
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	203	0.00	203	20.3	0.00	—	712
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	203	0.00	203	20.3	0.00	—	712
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	33.7	0.00	33.7	3.37	0.00	—	118
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	33.7	0.00	33.7	3.37	0.00	—	118

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28.5	28.5
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28.5	28.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28.5	28.5
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28.5	28.5

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.71	4.71
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.71	4.71

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.03	0.02	0.07	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	11.4	11.4	< 0.005	< 0.005	0.00	11.5
Total	0.03	0.02	0.07	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	11.4	11.4	< 0.005	< 0.005	0.00	11.5

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
General Heavy Industry	1,408	199	1,442	452,640	704	99.5	721	226,320
User Defined Industrial	78.0	11.0	79.9	25,075	39.0	5.51	39.9	12,538
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

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)
0	0.00	456,516	152,172	18,757

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)
General Heavy Industry	0.00	349	0.0330	0.0040	0.00
User Defined Industrial	0.00	349	0.0330	0.0040	0.00
Parking Lot	0.00	349	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	349	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Heavy Industry	70,379,550	0.00

User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Heavy Industry	377	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	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
General Heavy Industry	Other commercial A/C and heat pumps	User Defined	750	0.30	4.00	4.00	18.0

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

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
Fire Pump	Diesel	1.00	0.50	50.0	300	0.73

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

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	6.75	annual days of extreme heat
Extreme Precipitation	4.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	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 (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
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	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A

Air Quality Degradation	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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 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	29.9
AQ-PM	83.0
AQ-DPM	64.6
Drinking Water	34.7
Lead Risk Housing	93.7
Pesticides	41.1
Toxic Releases	95.5
Traffic	52.6
Effect Indicators	—
CleanUp Sites	73.4
Groundwater	97.7
Haz Waste Facilities/Generators	97.4
Impaired Water Bodies	66.7
Solid Waste	93.2
Sensitive Population	—
Asthma	91.1
Cardio-vascular	89.0
Low Birth Weights	85.5
Socioeconomic Factor Indicators	—
Education	78.8
Housing	80.7
Linguistic	54.6
Poverty	67.2
Unemployment	60.6

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	32.60618504
Employed	27.51186963
Median HI	42.25587065
Education	—
Bachelor's or higher	18.42679328
High school enrollment	100
Preschool enrollment	36.10932888
Transportation	—
Auto Access	64.27563198
Active commuting	62.96676505
Social	—
2-parent households	24.09854998
Voting	9.354548954
Neighborhood	—
Alcohol availability	10.88156037
Park access	36.08366483
Retail density	68.71551392
Supermarket access	88.31002181
Tree canopy	37.89298088
Housing	—
Homeownership	47.09354549
Housing habitability	21.81444886
Low-inc homeowner severe housing cost burden	7.827537534
Low-inc renter severe housing cost burden	66.09778006
Uncrowded housing	25.445913

Health Outcomes	—
Insured adults	22.85384319
Arthritis	73.2
Asthma ER Admissions	11.6
High Blood Pressure	74.3
Cancer (excluding skin)	80.0
Asthma	34.7
Coronary Heart Disease	66.7
Chronic Obstructive Pulmonary Disease	45.1
Diagnosed Diabetes	33.2
Life Expectancy at Birth	24.0
Cognitively Disabled	35.0
Physically Disabled	25.6
Heart Attack ER Admissions	19.5
Mental Health Not Good	27.0
Chronic Kidney Disease	55.3
Obesity	30.7
Pedestrian Injuries	19.6
Physical Health Not Good	30.0
Stroke	45.2
Health Risk Behaviors	—
Binge Drinking	60.3
Current Smoker	25.4
No Leisure Time for Physical Activity	31.1
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0

Children	53.3
Elderly	86.8
English Speaking	28.6
Foreign-born	66.4
Outdoor Workers	40.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	18.0
Traffic Density	74.9
Traffic Access	23.0
Other Indices	—
Hardship	77.0
Other Decision Support	—
2016 Voting	3.6

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	99.0
Healthy Places Index Score for Project Location (b)	29.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
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 & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Project site is 14.16 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis
Operations: Energy Use	Project energy demand will be offset with solar. Project will not utilize natural gas.
Operations: Refrigerants	As of 1 January 2022, new commercial refrigeration equipment may not use refrigerants with a GWP of 150 or greater. Further, R-404A (the CalEEMod default) is unacceptable for new supermarket and cold storage systems as of 1 January 2019 and 2023, respectively. Beginning 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater.

Cherry Avenue Warehouse (Localized Operations) Option 3 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	Cherry Avenue Warehouse (Localized Operations) Option 3
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.30
Precipitation (days)	17.4
Location	5900 Cherry Ave, Long Beach, CA 90805, USA
County	Los Angeles-South Coast
City	Long Beach
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4714
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Long Beach Gas & Oil
App Version	2022.1.1.21

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
Unrefrigerated Warehouse-No Rail	304	1000sqft	6.99	304,344	0.00	—	—	—

User Defined Industrial	304	User Defined Unit	0.00	0.00	0.00	—	—	—
Parking Lot	338	Space	1.19	0.00	0.00	—	—	—
Other Asphalt Surfaces	261	1000sqft	5.99	0.00	0.00	—	—	—

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.	4.01	11.0	3.79	18.6	0.01	0.10	0.20	0.30	0.10	0.05	0.15	289	1,420	1,709	29.4	0.44	1.25	2,576
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.65	8.80	3.80	5.76	0.01	0.08	0.20	0.28	0.08	0.05	0.13	289	1,363	1,652	29.4	0.44	0.03	2,519
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.57	9.67	2.19	12.6	0.01	0.04	0.15	0.19	0.04	0.04	0.07	289	1,042	1,331	29.4	0.41	0.39	2,188
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.47	1.76	0.40	2.31	< 0.005	0.01	0.03	0.03	0.01	0.01	0.01	47.9	173	220	4.87	0.07	0.07	362

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	1.12	0.99	2.31	4.10	0.01	0.01	0.20	0.21	0.01	0.05	0.06	—	656	656	0.15	0.10	1.25	691
Area	2.35	9.51	0.11	13.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	54.4	54.4	< 0.005	< 0.005	—	54.6
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Waste	—	—	—	—	—	—	—	—	—	—	—	154	0.00	154	15.4	0.00	—	539
Stationary	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	4.01	11.0	3.79	18.6	0.01	0.10	0.20	0.30	0.10	0.05	0.15	289	1,420	1,709	29.4	0.44	1.25	2,576
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.11	0.98	2.42	4.50	0.01	0.01	0.20	0.21	0.01	0.05	0.06	—	654	654	0.15	0.10	0.03	688
Area	—	7.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Waste	—	—	—	—	—	—	—	—	—	—	—	154	0.00	154	15.4	0.00	—	539
Stationary	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	1.65	8.80	3.80	5.76	0.01	0.08	0.20	0.28	0.08	0.05	0.13	289	1,363	1,652	29.4	0.44	0.03	2,519
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.81	0.71	1.74	3.23	< 0.005	< 0.005	0.15	0.15	< 0.005	0.04	0.04	—	478	478	0.11	0.07	0.39	504
Area	1.61	8.82	0.08	9.06	< 0.005	0.02	—	0.02	0.01	—	0.01	—	37.3	37.3	< 0.005	< 0.005	—	37.4
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039

Waste	—	—	—	—	—	—	—	—	—	—	—	154	0.00	154	15.4	0.00	—	539
Stationary	0.15	0.13	0.38	0.34	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	69.0	69.0	< 0.005	< 0.005	0.00	69.2
Total	2.57	9.67	2.19	12.6	0.01	0.04	0.15	0.19	0.04	0.04	0.07	289	1,042	1,331	29.4	0.41	0.39	2,188
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.15	0.13	0.32	0.59	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	79.2	79.2	0.02	0.01	0.07	83.4
Area	0.29	1.61	0.01	1.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.17	6.17	< 0.005	< 0.005	—	6.19
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	22.3	75.8	98.1	2.30	0.06	—	172
Waste	—	—	—	—	—	—	—	—	—	—	—	25.5	0.00	25.5	2.55	0.00	—	89.3
Stationary	0.03	0.02	0.07	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	11.4	11.4	< 0.005	< 0.005	0.00	11.5
Total	0.47	1.76	0.40	2.31	< 0.005	0.01	0.03	0.03	0.01	0.01	0.01	47.9	173	220	4.87	0.07	0.07	362

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.90	0.87	0.21	2.45	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.03	—	175	175	0.05	0.02	0.43	184

User Defined Industrial	0.22	0.12	2.10	1.65	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03	—	481	481	0.10	0.08	0.82	507
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.12	0.99	2.31	4.10	0.01	0.01	0.20	0.21	0.01	0.05	0.06	—	656	656	0.15	0.10	1.25	691
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.90	0.87	0.23	2.79	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.03	—	169	169	0.06	0.03	0.01	179
User Defined Industrial	0.21	0.11	2.20	1.72	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03	—	484	484	0.10	0.08	0.02	510
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.11	0.98	2.42	4.50	0.01	0.01	0.20	0.21	0.01	0.05	0.06	—	654	654	0.15	0.10	0.03	688
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.12	0.11	0.03	0.36	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	20.7	20.7	0.01	< 0.005	0.02	21.8
User Defined Industrial	0.03	0.02	0.29	0.23	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	58.4	58.4	0.01	0.01	0.04	61.5

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.15	0.13	0.32	0.59	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	79.2	79.2	0.02	0.01	0.07	83.4

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrige Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	2.35	2.17	0.11	13.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	54.4	54.4	< 0.005	< 0.005	—	54.6
Total	2.35	9.51	0.11	13.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	54.4	54.4	< 0.005	< 0.005	—	54.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Products	—	6.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	7.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	1.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.29	0.27	0.01	1.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.17	6.17	< 0.005	< 0.005	—	6.19
Total	0.29	1.61	0.01	1.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.17	6.17	< 0.005	< 0.005	—	6.19

4.4. Water Emissions by Land Use

4.4.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	22.3	75.8	98.1	2.30	0.06	—	172
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	22.3	75.8	98.1	2.30	0.06	—	172

4.5. Waste Emissions by Land Use

4.5.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	154	0.00	154	15.4	0.00	—	539
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	154	0.00	154	15.4	0.00	—	539
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated	—	—	—	—	—	—	—	—	—	—	—	154	0.00	154	15.4	0.00	—	539
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	154	0.00	154	15.4	0.00	—	539
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	25.5	0.00	25.5	2.55	0.00	—	89.3
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	25.5	0.00	25.5	2.55	0.00	—	89.3

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

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.03	0.02	0.07	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	11.4	11.4	< 0.005	< 0.005	0.00	11.5
Total	0.03	0.02	0.07	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	11.4	11.4	< 0.005	< 0.005	0.00	11.5

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Unrefrigerated Warehouse-No Rail	338	29.5	11.8	90,273	169	14.7	5.89	45,136
User Defined Industrial	186	16.2	6.48	49,679	93.0	8.10	3.24	24,840
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

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)
0	0.00	456,516	152,172	18,757

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)
Unrefrigerated Warehouse-No Rail	0.00	349	0.0330	0.0040	0.00
User Defined Industrial	0.00	349	0.0330	0.0040	0.00
Parking Lot	0.00	349	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	349	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	70,379,550	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	286	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	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

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

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
Fire Pump	Diesel	1.00	0.50	50.0	300	0.73

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

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	6.75	annual days of extreme heat
Extreme Precipitation	4.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	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 (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
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	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A

Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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 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	29.9
AQ-PM	83.0
AQ-DPM	64.6
Drinking Water	34.7
Lead Risk Housing	93.7
Pesticides	41.1
Toxic Releases	95.5
Traffic	52.6
Effect Indicators	—
CleanUp Sites	73.4
Groundwater	97.7
Haz Waste Facilities/Generators	97.4
Impaired Water Bodies	66.7
Solid Waste	93.2
Sensitive Population	—
Asthma	91.1
Cardio-vascular	89.0
Low Birth Weights	85.5
Socioeconomic Factor Indicators	—
Education	78.8
Housing	80.7
Linguistic	54.6
Poverty	67.2

Unemployment	60.6

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	32.60618504
Employed	27.51186963
Median HI	42.25587065
Education	—
Bachelor's or higher	18.42679328
High school enrollment	100
Preschool enrollment	36.10932888
Transportation	—
Auto Access	64.27563198
Active commuting	62.96676505
Social	—
2-parent households	24.09854998
Voting	9.354548954
Neighborhood	—
Alcohol availability	10.88156037
Park access	36.08366483
Retail density	68.71551392
Supermarket access	88.31002181
Tree canopy	37.89298088
Housing	—
Homeownership	47.09354549

Housing habitability	21.81444886
Low-inc homeowner severe housing cost burden	7.827537534
Low-inc renter severe housing cost burden	66.09778006
Uncrowded housing	25.445913
Health Outcomes	—
Insured adults	22.85384319
Arthritis	73.2
Asthma ER Admissions	11.6
High Blood Pressure	74.3
Cancer (excluding skin)	80.0
Asthma	34.7
Coronary Heart Disease	66.7
Chronic Obstructive Pulmonary Disease	45.1
Diagnosed Diabetes	33.2
Life Expectancy at Birth	24.0
Cognitively Disabled	35.0
Physically Disabled	25.6
Heart Attack ER Admissions	19.5
Mental Health Not Good	27.0
Chronic Kidney Disease	55.3
Obesity	30.7
Pedestrian Injuries	19.6
Physical Health Not Good	30.0
Stroke	45.2
Health Risk Behaviors	—
Binge Drinking	60.3
Current Smoker	25.4

No Leisure Time for Physical Activity	31.1
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	53.3
Elderly	86.8
English Speaking	28.6
Foreign-born	66.4
Outdoor Workers	40.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	18.0
Traffic Density	74.9
Traffic Access	23.0
Other Indices	—
Hardship	77.0
Other Decision Support	—
2016 Voting	3.6

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	99.0
Healthy Places Index Score for Project Location (b)	29.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
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 & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Total Project area is 14.16 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis
Operations: Energy Use	Project energy demand will be offset with solar. Project will not utilize natural gas.

Cherry Avenue Warehouse (Localized Operations) Option 4 Detailed Report

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5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Cherry Avenue Warehouse (Localized Operations) Option 4
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.30
Precipitation (days)	17.4
Location	5900 Cherry Ave, Long Beach, CA 90805, USA
County	Los Angeles-South Coast
City	Long Beach
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4714
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Long Beach Gas & Oil
App Version	2022.1.1.21

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
Unrefrigerated Warehouse-No Rail	304	1000sqft	6.99	304,344	0.00	—	—	—

User Defined Industrial	304	User Defined Unit	0.00	0.00	0.00	—	—	—
Parking Lot	338	Space	1.19	0.00	0.00	—	—	—
Other Asphalt Surfaces	261	1000sqft	5.99	0.00	0.00	—	—	—

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.	4.26	11.3	2.59	18.6	0.01	0.10	0.20	0.30	0.09	0.05	0.15	289	1,198	1,487	29.4	0.40	0.93	2,343
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.90	9.11	2.54	5.89	0.01	0.08	0.20	0.28	0.08	0.05	0.13	289	1,137	1,427	29.4	0.40	0.02	2,282
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.74	9.88	1.29	12.7	< 0.005	0.04	0.14	0.18	0.04	0.04	0.07	289	876	1,165	29.4	0.38	0.29	2,014
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.50	1.80	0.23	2.32	< 0.005	0.01	0.03	0.03	0.01	0.01	0.01	47.9	145	193	4.86	0.06	0.05	333

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	1.36	1.29	1.10	4.12	< 0.005	< 0.005	0.20	0.21	< 0.005	0.05	0.06	—	434	434	0.11	0.06	0.93	457
Area	2.35	9.51	0.11	13.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	54.4	54.4	< 0.005	< 0.005	—	54.6
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Waste	—	—	—	—	—	—	—	—	—	—	—	154	0.00	154	15.4	0.00	—	539
Stationary	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	4.26	11.3	2.59	18.6	0.01	0.10	0.20	0.30	0.09	0.05	0.15	289	1,198	1,487	29.4	0.40	0.93	2,343
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.36	1.28	1.17	4.63	< 0.005	< 0.005	0.20	0.21	< 0.005	0.05	0.06	—	428	428	0.12	0.07	0.02	451
Area	—	7.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Waste	—	—	—	—	—	—	—	—	—	—	—	154	0.00	154	15.4	0.00	—	539
Stationary	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	1.90	9.11	2.54	5.89	0.01	0.08	0.20	0.28	0.08	0.05	0.13	289	1,137	1,427	29.4	0.40	0.02	2,282
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.98	0.92	0.83	3.30	< 0.005	< 0.005	0.14	0.15	< 0.005	0.04	0.04	—	312	312	0.08	0.05	0.29	329
Area	1.61	8.82	0.08	9.06	< 0.005	0.02	—	0.02	0.01	—	0.01	—	37.3	37.3	< 0.005	< 0.005	—	37.4
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039

Waste	—	—	—	—	—	—	—	—	—	—	—	154	0.00	154	15.4	0.00	—	539
Stationary	0.15	0.13	0.38	0.34	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	69.0	69.0	< 0.005	< 0.005	0.00	69.2
Total	2.74	9.88	1.29	12.7	< 0.005	0.04	0.14	0.18	0.04	0.04	0.07	289	876	1,165	29.4	0.38	0.29	2,014
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.18	0.17	0.15	0.60	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	51.7	51.7	0.01	0.01	0.05	54.5
Area	0.29	1.61	0.01	1.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.17	6.17	< 0.005	< 0.005	—	6.19
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	22.3	75.8	98.1	2.30	0.06	—	172
Waste	—	—	—	—	—	—	—	—	—	—	—	25.5	0.00	25.5	2.55	0.00	—	89.3
Stationary	0.03	0.02	0.07	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	11.4	11.4	< 0.005	< 0.005	0.00	11.5
Total	0.50	1.80	0.23	2.32	< 0.005	0.01	0.03	0.03	0.01	0.01	0.01	47.9	145	193	4.86	0.06	0.05	333

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.28	1.24	0.29	3.49	< 0.005	< 0.005	0.17	0.17	< 0.005	0.04	0.05	—	249	249	0.07	0.04	0.61	262

User Defined Industrial	0.09	0.05	0.81	0.63	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	185	185	0.04	0.03	0.32	195
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.36	1.29	1.10	4.12	< 0.005	< 0.005	0.20	0.21	< 0.005	0.05	0.06	—	434	434	0.11	0.06	0.93	457
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.28	1.24	0.32	3.97	< 0.005	< 0.005	0.17	0.17	< 0.005	0.04	0.05	—	242	242	0.08	0.04	0.02	255
User Defined Industrial	0.08	0.04	0.84	0.66	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	186	186	0.04	0.03	0.01	196
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.36	1.28	1.17	4.63	< 0.005	< 0.005	0.20	0.21	< 0.005	0.05	0.06	—	428	428	0.12	0.07	0.02	451
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.17	0.16	0.04	0.52	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	29.3	29.3	0.01	< 0.005	0.03	30.9
User Defined Industrial	0.01	0.01	0.11	0.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	22.3	22.3	< 0.005	< 0.005	0.02	23.5

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.18	0.17	0.15	0.60	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	51.7	51.7	0.01	0.01	0.05	54.5

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrige Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	2.35	2.17	0.11	13.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	54.4	54.4	< 0.005	< 0.005	—	54.6
Total	2.35	9.51	0.11	13.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	54.4	54.4	< 0.005	< 0.005	—	54.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Products	—	6.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	7.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	1.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.29	0.27	0.01	1.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.17	6.17	< 0.005	< 0.005	—	6.19
Total	0.29	1.61	0.01	1.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.17	6.17	< 0.005	< 0.005	—	6.19

4.4. Water Emissions by Land Use

4.4.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	22.3	75.8	98.1	2.30	0.06	—	172
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	22.3	75.8	98.1	2.30	0.06	—	172

4.5. Waste Emissions by Land Use

4.5.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	154	0.00	154	15.4	0.00	—	539
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	154	0.00	154	15.4	0.00	—	539
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated	—	—	—	—	—	—	—	—	—	—	—	154	0.00	154	15.4	0.00	—	539
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	154	0.00	154	15.4	0.00	—	539
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	25.5	0.00	25.5	2.55	0.00	—	89.3
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	25.5	0.00	25.5	2.55	0.00	—	89.3

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

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.03	0.02	0.07	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	11.4	11.4	< 0.005	< 0.005	0.00	11.5
Total	0.03	0.02	0.07	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	11.4	11.4	< 0.005	< 0.005	0.00	11.5

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Unrefrigerated Warehouse-No Rail	482	42.0	1.46	127,928	241	21.0	0.73	63,964
User Defined Industrial	72.0	6.27	0.21	19,111	36.0	3.13	0.11	9,556
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

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)
0	0.00	456,516	152,172	18,757

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)
Unrefrigerated Warehouse-No Rail	0.00	349	0.0330	0.0040	0.00
User Defined Industrial	0.00	349	0.0330	0.0040	0.00
Parking Lot	0.00	349	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	349	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	70,379,550	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	286	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	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

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

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
Fire Pump	Diesel	1.00	0.50	50.0	300	0.73

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

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	6.75	annual days of extreme heat
Extreme Precipitation	4.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	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 (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
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	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A

Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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 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	29.9
AQ-PM	83.0
AQ-DPM	64.6
Drinking Water	34.7
Lead Risk Housing	93.7
Pesticides	41.1
Toxic Releases	95.5
Traffic	52.6
Effect Indicators	—
CleanUp Sites	73.4
Groundwater	97.7
Haz Waste Facilities/Generators	97.4
Impaired Water Bodies	66.7
Solid Waste	93.2
Sensitive Population	—
Asthma	91.1
Cardio-vascular	89.0
Low Birth Weights	85.5
Socioeconomic Factor Indicators	—
Education	78.8
Housing	80.7
Linguistic	54.6
Poverty	67.2

Unemployment	60.6

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	32.60618504
Employed	27.51186963
Median HI	42.25587065
Education	—
Bachelor's or higher	18.42679328
High school enrollment	100
Preschool enrollment	36.10932888
Transportation	—
Auto Access	64.27563198
Active commuting	62.96676505
Social	—
2-parent households	24.09854998
Voting	9.354548954
Neighborhood	—
Alcohol availability	10.88156037
Park access	36.08366483
Retail density	68.71551392
Supermarket access	88.31002181
Tree canopy	37.89298088
Housing	—
Homeownership	47.09354549

Housing habitability	21.81444886
Low-inc homeowner severe housing cost burden	7.827537534
Low-inc renter severe housing cost burden	66.09778006
Uncrowded housing	25.445913
Health Outcomes	—
Insured adults	22.85384319
Arthritis	73.2
Asthma ER Admissions	11.6
High Blood Pressure	74.3
Cancer (excluding skin)	80.0
Asthma	34.7
Coronary Heart Disease	66.7
Chronic Obstructive Pulmonary Disease	45.1
Diagnosed Diabetes	33.2
Life Expectancy at Birth	24.0
Cognitively Disabled	35.0
Physically Disabled	25.6
Heart Attack ER Admissions	19.5
Mental Health Not Good	27.0
Chronic Kidney Disease	55.3
Obesity	30.7
Pedestrian Injuries	19.6
Physical Health Not Good	30.0
Stroke	45.2
Health Risk Behaviors	—
Binge Drinking	60.3
Current Smoker	25.4

No Leisure Time for Physical Activity	31.1
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	53.3
Elderly	86.8
English Speaking	28.6
Foreign-born	66.4
Outdoor Workers	40.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	18.0
Traffic Density	74.9
Traffic Access	23.0
Other Indices	—
Hardship	77.0
Other Decision Support	—
2016 Voting	3.6

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	99.0
Healthy Places Index Score for Project Location (b)	29.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
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 & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Total Project area is 14.16 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis
Operations: Energy Use	Project energy demand will be offset with solar. Project will not utilize natural gas.

Cherry Avenue Warehouse (Localized Operations) Option 5 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	Cherry Avenue Warehouse (Localized Operations) Option 5
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.30
Precipitation (days)	17.4
Location	5900 Cherry Ave, Long Beach, CA 90805, USA
County	Los Angeles-South Coast
City	Long Beach
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4714
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Long Beach Gas & Oil
App Version	2022.1.1.21

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
Refrigerated Warehouse-No Rail	304	1000sqft	6.99	304,344	0.00	—	—	—

User Defined Industrial	304	User Defined Unit	0.00	0.00	0.00	—	—	—
Parking Lot	338	Space	1.19	0.00	0.00	—	—	—
Other Asphalt Surfaces	261	1000sqft	5.99	0.00	0.00	—	—	—

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.	5.36	12.2	8.78	22.0	0.01	0.25	0.25	0.50	0.24	0.06	0.31	289	2,004	2,293	29.5	0.45	312	3,477
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.99	10.0	8.80	9.23	0.01	0.23	0.25	0.47	0.22	0.06	0.29	289	1,947	2,236	29.5	0.46	310	3,419
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.12	10.2	3.78	14.3	0.01	0.08	0.19	0.27	0.08	0.05	0.13	289	1,277	1,566	29.4	0.43	311	2,739
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.57	1.86	0.69	2.61	< 0.005	0.01	0.04	0.05	0.01	0.01	0.02	47.9	211	259	4.87	0.07	51.4	453

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	1.38	1.24	2.48	4.97	0.01	0.01	0.25	0.26	0.01	0.06	0.07	—	736	736	0.17	0.11	1.62	776
Area	2.35	9.51	0.11	13.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	54.4	54.4	< 0.005	< 0.005	—	54.6
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Waste	—	—	—	—	—	—	—	—	—	—	—	154	0.00	154	15.4	0.00	—	539
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	310	310
Stationary	1.62	1.48	6.19	3.77	0.01	0.22	0.00	0.22	0.22	0.00	0.22	0.00	756	756	0.03	0.01	0.00	758
Total	5.36	12.2	8.78	22.0	0.01	0.25	0.25	0.50	0.24	0.06	0.31	289	2,004	2,293	29.5	0.45	312	3,477
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.37	1.22	2.61	5.46	0.01	0.01	0.25	0.26	0.01	0.06	0.07	—	733	733	0.17	0.12	0.04	772
Area	—	7.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Waste	—	—	—	—	—	—	—	—	—	—	—	154	0.00	154	15.4	0.00	—	539
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	310	310
Stationary	1.62	1.48	6.19	3.77	0.01	0.22	0.00	0.22	0.22	0.00	0.22	0.00	756	756	0.03	0.01	0.00	758
Total	2.99	10.0	8.80	9.23	0.01	0.23	0.25	0.47	0.22	0.06	0.29	289	1,947	2,236	29.5	0.46	310	3,419
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.07	0.95	2.00	4.20	0.01	0.01	0.19	0.20	0.01	0.05	0.06	—	575	575	0.14	0.09	0.55	606
Area	1.61	8.82	0.08	9.06	< 0.005	0.02	—	0.02	0.01	—	0.01	—	37.3	37.3	< 0.005	< 0.005	—	37.4

Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Waste	—	—	—	—	—	—	—	—	—	—	—	154	0.00	154	15.4	0.00	—	539
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	310	310
Stationary	0.44	0.40	1.70	1.03	< 0.005	0.06	0.00	0.06	0.06	0.00	0.06	0.00	207	207	0.01	< 0.005	0.00	208
Total	3.12	10.2	3.78	14.3	0.01	0.08	0.19	0.27	0.08	0.05	0.13	289	1,277	1,566	29.4	0.43	311	2,739
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.19	0.17	0.37	0.77	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	95.1	95.1	0.02	0.01	0.09	100
Area	0.29	1.61	0.01	1.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.17	6.17	< 0.005	< 0.005	—	6.19
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	22.3	75.8	98.1	2.30	0.06	—	172
Waste	—	—	—	—	—	—	—	—	—	—	—	25.5	0.00	25.5	2.55	0.00	—	89.3
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	51.4	51.4
Stationary	0.08	0.07	0.31	0.19	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	34.3	34.3	< 0.005	< 0.005	0.00	34.4
Total	0.57	1.86	0.69	2.61	< 0.005	0.01	0.04	0.05	0.01	0.01	0.02	47.9	211	259	4.87	0.07	51.4	453

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Refrigera Warehouse-No Rail	1.11	1.08	0.25	3.02	< 0.005	< 0.005	0.15	0.15	< 0.005	0.04	0.04	—	216	216	0.06	0.03	0.53	227
User Defined Industrial	0.27	0.16	2.22	1.95	< 0.005	0.01	0.10	0.11	< 0.005	0.03	0.03	—	520	520	0.10	0.08	1.09	549
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.38	1.24	2.48	4.97	0.01	0.01	0.25	0.26	0.01	0.06	0.07	—	736	736	0.17	0.11	1.62	776
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	1.11	1.07	0.28	3.45	< 0.005	< 0.005	0.15	0.15	< 0.005	0.04	0.04	—	210	210	0.07	0.03	0.01	221
User Defined Industrial	0.26	0.15	2.33	2.02	< 0.005	0.01	0.10	0.11	0.01	0.03	0.03	—	524	524	0.10	0.08	0.03	551
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.37	1.22	2.61	5.46	0.01	0.01	0.25	0.26	0.01	0.06	0.07	—	733	733	0.17	0.12	0.04	772
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	0.16	0.15	0.04	0.48	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	27.4	27.4	0.01	< 0.005	0.03	28.9

User Defined Industrial	0.04	0.02	0.33	0.28	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	67.7	67.7	0.01	0.01	0.06	71.3
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.19	0.17	0.37	0.77	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	95.1	95.1	0.02	0.01	0.09	100

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	2.35	2.17	0.11	13.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	54.4	54.4	< 0.005	< 0.005	—	54.6

Total	2.35	9.51	0.11	13.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	54.4	54.4	< 0.005	< 0.005	—	54.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	7.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	1.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.29	0.27	0.01	1.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.17	6.17	< 0.005	< 0.005	—	6.19
Total	0.29	1.61	0.01	1.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.17	6.17	< 0.005	< 0.005	—	6.19

4.4. Water Emissions by Land Use

4.4.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Refrigera Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	22.3	75.8	98.1	2.30	0.06	—	172

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	22.3	75.8	98.1	2.30	0.06	—	172

4.5. Waste Emissions by Land Use

4.5.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	154	0.00	154	15.4	0.00	—	539
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	154	0.00	154	15.4	0.00	—	539

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	154	0.00	154	15.4	0.00	—	539
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	154	0.00	154	15.4	0.00	—	539
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	25.5	0.00	25.5	2.55	0.00	—	89.3
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	25.5	0.00	25.5	2.55	0.00	—	89.3

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	310	310
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	310	310
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	310	310
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	310	310
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	51.4	51.4
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	51.4	51.4

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.27	0.25	0.69	0.63	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	0.00	126	126	0.01	< 0.005	0.00	126
Emergency Generator	1.35	1.23	5.50	3.14	0.01	0.18	0.00	0.18	0.18	0.00	0.18	0.00	630	630	0.03	< 0.005	0.00	632
Total	1.62	1.48	6.19	3.77	0.01	0.22	0.00	0.22	0.22	0.00	0.22	0.00	756	756	0.03	0.01	0.00	758

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.27	0.25	0.69	0.63	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	0.00	126	126	0.01	< 0.005	0.00	126
Emergency Generator	1.35	1.23	5.50	3.14	0.01	0.18	0.00	0.18	0.18	0.00	0.18	0.00	630	630	0.03	< 0.005	0.00	632
Total	1.62	1.48	6.19	3.77	0.01	0.22	0.00	0.22	0.22	0.00	0.22	0.00	756	756	0.03	0.01	0.00	758
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.01	0.01	0.03	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	5.71	5.71	< 0.005	< 0.005	0.00	5.73
Emergency Generator	0.07	0.06	0.28	0.16	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	28.6	28.6	< 0.005	< 0.005	0.00	28.7
Total	0.08	0.07	0.31	0.19	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	34.3	34.3	< 0.005	< 0.005	0.00	34.4

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
Refrigerated Warehouse-No Rail	418	36.4	167	119,593	209	18.2	83.6	59,797
User Defined Industrial	230	20.0	92.0	65,804	115	10.0	46.0	32,902
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

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)
0	0.00	456,516	152,172	18,757

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)
Refrigerated Warehouse-No Rail	0.00	349	0.0330	0.0040	0.00
User Defined Industrial	0.00	349	0.0330	0.0040	0.00
Parking Lot	0.00	349	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	349	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Refrigerated Warehouse-No Rail	70,379,550	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Refrigerated Warehouse-No Rail	286	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	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
Refrigerated Warehouse-No Rail	Cold storage	User Defined	150	7.50	7.50	7.50	25.0

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

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
Fire Pump	Diesel	1.00	0.50	50.0	300	0.73
Emergency Generator	Diesel	1.00	0.50	50.0	1,500	0.73

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

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	6.75	annual days of extreme heat
Extreme Precipitation	4.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	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 (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
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	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A

Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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 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	29.9
AQ-PM	83.0
AQ-DPM	64.6
Drinking Water	34.7
Lead Risk Housing	93.7
Pesticides	41.1
Toxic Releases	95.5
Traffic	52.6
Effect Indicators	—
CleanUp Sites	73.4
Groundwater	97.7
Haz Waste Facilities/Generators	97.4
Impaired Water Bodies	66.7
Solid Waste	93.2
Sensitive Population	—
Asthma	91.1
Cardio-vascular	89.0
Low Birth Weights	85.5
Socioeconomic Factor Indicators	—
Education	78.8
Housing	80.7
Linguistic	54.6
Poverty	67.2

Unemployment	60.6

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	32.60618504
Employed	27.51186963
Median HI	42.25587065
Education	—
Bachelor's or higher	18.42679328
High school enrollment	100
Preschool enrollment	36.10932888
Transportation	—
Auto Access	64.27563198
Active commuting	62.96676505
Social	—
2-parent households	24.09854998
Voting	9.354548954
Neighborhood	—
Alcohol availability	10.88156037
Park access	36.08366483
Retail density	68.71551392
Supermarket access	88.31002181
Tree canopy	37.89298088
Housing	—
Homeownership	47.09354549

Housing habitability	21.81444886
Low-inc homeowner severe housing cost burden	7.827537534
Low-inc renter severe housing cost burden	66.09778006
Uncrowded housing	25.445913
Health Outcomes	—
Insured adults	22.85384319
Arthritis	73.2
Asthma ER Admissions	11.6
High Blood Pressure	74.3
Cancer (excluding skin)	80.0
Asthma	34.7
Coronary Heart Disease	66.7
Chronic Obstructive Pulmonary Disease	45.1
Diagnosed Diabetes	33.2
Life Expectancy at Birth	24.0
Cognitively Disabled	35.0
Physically Disabled	25.6
Heart Attack ER Admissions	19.5
Mental Health Not Good	27.0
Chronic Kidney Disease	55.3
Obesity	30.7
Pedestrian Injuries	19.6
Physical Health Not Good	30.0
Stroke	45.2
Health Risk Behaviors	—
Binge Drinking	60.3
Current Smoker	25.4

No Leisure Time for Physical Activity	31.1
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	53.3
Elderly	86.8
English Speaking	28.6
Foreign-born	66.4
Outdoor Workers	40.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	18.0
Traffic Density	74.9
Traffic Access	23.0
Other Indices	—
Hardship	77.0
Other Decision Support	—
2016 Voting	3.6

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	99.0
Healthy Places Index Score for Project Location (b)	29.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
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 & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Total Project area is 14.16 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis
Operations: Energy Use	Project energy demand will be offset with solar. Project will not utilize natural gas.
Operations: Refrigerants	As of 1 January 2022, new commercial refrigeration equipment may not use refrigerants with a GWP of 150 or greater. Further, R-404A (the CalEEMod default) is unacceptable for new supermarket and cold storage systems as of 1 January 2019 and 2023, respectively.

Cherry Avenue Warehouse (Localized Operations) Option 6 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	Cherry Avenue Warehouse (Localized Operations) Option 6
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.30
Precipitation (days)	17.4
Location	5900 Cherry Ave, Long Beach, CA 90805, USA
County	Los Angeles-South Coast
City	Long Beach
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4714
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Long Beach Gas & Oil
App Version	2022.1.1.21

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
Manufacturing	76.1	1000sqft	1.75	76,086	0.00	—	—	—

User Defined Industrial	76.1	User Defined Unit	0.00	0.00	0.00	—	—	—
Unrefrigerated Warehouse-No Rail	228	1000sqft	5.24	228,258	0.00	—	—	—
User Defined Industrial	228	User Defined Unit	0.00	0.00	0.00	—	—	—
Parking Lot	338	Space	1.19	0.00	0.00	—	—	—
Other Asphalt Surfaces	261	1000sqft	5.99	0.00	0.00	—	—	—

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.	4.65	11.6	3.80	20.2	0.01	0.10	0.28	0.38	0.10	0.07	0.17	301	1,513	1,815	30.7	0.45	8.62	2,725
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.28	9.42	3.81	7.65	0.01	0.08	0.28	0.36	0.08	0.07	0.15	301	1,453	1,754	30.7	0.45	7.15	2,664
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.07	10.2	2.24	14.2	0.01	0.04	0.21	0.25	0.04	0.05	0.09	301	1,123	1,424	30.7	0.42	7.60	2,324
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	0.56	1.85	0.41	2.59	< 0.005	0.01	0.04	0.05	0.01	0.01	0.02	49.9	186	236	5.08	0.07	1.26	385

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	1.75	1.61	2.31	5.75	0.01	0.01	0.28	0.29	0.01	0.07	0.08	—	749	749	0.18	0.11	1.50	789
Area	2.35	9.51	0.11	13.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	54.4	54.4	< 0.005	< 0.005	—	54.6
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Waste	—	—	—	—	—	—	—	—	—	—	—	166	0.00	166	16.6	0.00	—	582
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.11	7.11
Stationary	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	4.65	11.6	3.80	20.2	0.01	0.10	0.28	0.38	0.10	0.07	0.17	301	1,513	1,815	30.7	0.45	8.62	2,725
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.74	1.60	2.44	6.40	0.01	0.01	0.28	0.29	0.01	0.07	0.08	—	743	743	0.19	0.12	0.04	783
Area	—	7.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Waste	—	—	—	—	—	—	—	—	—	—	—	166	0.00	166	16.6	0.00	—	582
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.11	7.11
Stationary	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	2.28	9.42	3.81	7.65	0.01	0.08	0.28	0.36	0.08	0.07	0.15	301	1,453	1,754	30.7	0.45	7.15	2,664

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.31	1.21	1.79	4.76	0.01	0.01	0.21	0.22	0.01	0.05	0.06	—	559	559	0.14	0.09	0.49	589
Area	1.61	8.82	0.08	9.06	< 0.005	0.02	—	0.02	0.01	—	0.01	—	37.3	37.3	< 0.005	< 0.005	—	37.4
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Waste	—	—	—	—	—	—	—	—	—	—	—	166	0.00	166	16.6	0.00	—	582
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.11	7.11
Stationary	0.15	0.13	0.38	0.34	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	69.0	69.0	< 0.005	< 0.005	0.00	69.2
Total	3.07	10.2	2.24	14.2	0.01	0.04	0.21	0.25	0.04	0.05	0.09	301	1,123	1,424	30.7	0.42	7.60	2,324
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.24	0.22	0.33	0.87	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	92.6	92.6	0.02	0.01	0.08	97.5
Area	0.29	1.61	0.01	1.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.17	6.17	< 0.005	< 0.005	—	6.19
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	22.3	75.8	98.1	2.30	0.06	—	172
Waste	—	—	—	—	—	—	—	—	—	—	—	27.6	0.00	27.6	2.75	0.00	—	96.4
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.18	1.18
Stationary	0.03	0.02	0.07	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	11.4	11.4	< 0.005	< 0.005	0.00	11.5
Total	0.56	1.85	0.41	2.59	< 0.005	0.01	0.04	0.05	0.01	0.01	0.02	49.9	186	236	5.08	0.07	1.26	385

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.87	0.84	0.20	2.37	< 0.005	< 0.005	0.11	0.12	< 0.005	0.03	0.03	—	170	170	0.05	0.02	0.41	178
User Defined Industrial	0.21	0.11	1.96	1.54	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	448	448	0.09	0.07	0.77	473
Unrefrigerated Warehouse-No Rail	0.67	0.65	0.15	1.84	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.02	—	131	131	0.04	0.02	0.32	138
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.75	1.61	2.31	5.75	0.01	0.01	0.28	0.29	0.01	0.07	0.08	—	749	749	0.18	0.11	1.50	789
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.87	0.84	0.22	2.70	< 0.005	< 0.005	0.11	0.12	< 0.005	0.03	0.03	—	164	164	0.06	0.03	0.01	173
User Defined Industrial	0.20	0.10	2.05	1.60	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.03	—	452	452	0.09	0.07	0.02	475
Unrefrigerated Warehouse-No Rail	0.67	0.65	0.17	2.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.02	—	127	127	0.04	0.02	0.01	134
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.74	1.60	2.44	6.40	0.01	0.01	0.28	0.29	0.01	0.07	0.08	—	743	743	0.19	0.12	0.04	783
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.12	0.12	0.03	0.38	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	21.7	21.7	0.01	< 0.005	0.02	22.8
User Defined Industrial	0.03	0.01	0.27	0.21	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	55.4	55.4	0.01	0.01	0.04	58.3
Unrefrigerated Warehouse-No Rail	0.09	0.09	0.02	0.27	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	15.6	15.6	0.01	< 0.005	0.02	16.4
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.24	0.22	0.33	0.87	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	92.6	92.6	0.02	0.01	0.08	97.5

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	2.35	2.17	0.11	13.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	54.4	54.4	< 0.005	< 0.005	—	54.6
Total	2.35	9.51	0.11	13.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	54.4	54.4	< 0.005	< 0.005	—	54.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	7.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	1.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.29	0.27	0.01	1.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.17	6.17	< 0.005	< 0.005	—	6.19
Total	0.29	1.61	0.01	1.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.17	6.17	< 0.005	< 0.005	—	6.19

4.4. Water Emissions by Land Use

4.4.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	33.7	114	148	3.47	0.08	—	260
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	101	343	444	10.4	0.25	—	779
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	33.7	114	148	3.47	0.08	—	260
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	101	343	444	10.4	0.25	—	779
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	5.58	18.9	24.5	0.57	0.01	—	43.0
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	16.7	56.8	73.6	1.72	0.04	—	129
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	22.3	75.8	98.1	2.30	0.06	—	172

4.5. Waste Emissions by Land Use

4.5.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	50.8	0.00	50.8	5.08	0.00	—	178
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	116	0.00	116	11.6	0.00	—	405
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	166	0.00	166	16.6	0.00	—	582
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Manufacturing	—	—	—	—	—	—	—	—	—	—	—	50.8	0.00	50.8	5.08	0.00	—	178
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	116	0.00	116	11.6	0.00	—	405
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	166	0.00	166	16.6	0.00	—	582
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	8.42	0.00	8.42	0.84	0.00	—	29.5
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	19.1	0.00	19.1	1.91	0.00	—	67.0
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	27.6	0.00	27.6	2.75	0.00	—	96.4

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.11	7.11
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.11	7.11
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.11	7.11
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.11	7.11
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.18	1.18
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.18	1.18

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Fire Pump	0.03	0.02	0.07	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	11.4	11.4	< 0.005	< 0.005	0.00	11.5
Total	0.03	0.02	0.07	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	11.4	11.4	< 0.005	< 0.005	0.00	11.5

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
Manufacturing	328	102	67.9	94,387	164	51.1	34.0	47,194
User Defined Industrial	35.7	11.1	7.40	10,277	17.9	5.57	3.70	5,139
Unrefrigerated Warehouse-No Rail	254	22.2	8.88	67,843	127	11.1	4.44	33,921
User Defined Industrial	138	12.1	4.82	36,877	69.0	6.03	2.41	18,439
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

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)
0	0.00	456,516	152,172	18,757

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)
Manufacturing	0.00	349	0.0330	0.0040	0.00
User Defined Industrial	0.00	349	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	0.00	349	0.0330	0.0040	0.00
User Defined Industrial	0.00	349	0.0330	0.0040	0.00
Parking Lot	0.00	349	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	349	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Manufacturing	17,594,888	0.00
User Defined Industrial	0.00	0.00
Unrefrigerated Warehouse-No Rail	52,784,663	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Manufacturing	94.3	—
User Defined Industrial	0.00	—
Unrefrigerated Warehouse-No Rail	215	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	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
Manufacturing	Other commercial A/C and heat pumps	User Defined	750	0.30	4.00	4.00	18.0

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

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

Fire Pump	Diesel	1.00	0.50	50.0	300	0.73

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

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	6.75	annual days of extreme heat
Extreme Precipitation	4.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	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 (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
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	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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 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	29.9

AQ-PM	83.0
AQ-DPM	64.6
Drinking Water	34.7
Lead Risk Housing	93.7
Pesticides	41.1
Toxic Releases	95.5
Traffic	52.6
Effect Indicators	—
CleanUp Sites	73.4
Groundwater	97.7
Haz Waste Facilities/Generators	97.4
Impaired Water Bodies	66.7
Solid Waste	93.2
Sensitive Population	—
Asthma	91.1
Cardio-vascular	89.0
Low Birth Weights	85.5
Socioeconomic Factor Indicators	—
Education	78.8
Housing	80.7
Linguistic	54.6
Poverty	67.2
Unemployment	60.6

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	32.60618504
Employed	27.51186963
Median HI	42.25587065
Education	—
Bachelor's or higher	18.42679328
High school enrollment	100
Preschool enrollment	36.10932888
Transportation	—
Auto Access	64.27563198
Active commuting	62.96676505
Social	—
2-parent households	24.09854998
Voting	9.354548954
Neighborhood	—
Alcohol availability	10.88156037
Park access	36.08366483
Retail density	68.71551392
Supermarket access	88.31002181
Tree canopy	37.89298088
Housing	—
Homeownership	47.09354549
Housing habitability	21.81444886
Low-inc homeowner severe housing cost burden	7.827537534
Low-inc renter severe housing cost burden	66.09778006
Uncrowded housing	25.445913
Health Outcomes	—

Insured adults	22.85384319
Arthritis	73.2
Asthma ER Admissions	11.6
High Blood Pressure	74.3
Cancer (excluding skin)	80.0
Asthma	34.7
Coronary Heart Disease	66.7
Chronic Obstructive Pulmonary Disease	45.1
Diagnosed Diabetes	33.2
Life Expectancy at Birth	24.0
Cognitively Disabled	35.0
Physically Disabled	25.6
Heart Attack ER Admissions	19.5
Mental Health Not Good	27.0
Chronic Kidney Disease	55.3
Obesity	30.7
Pedestrian Injuries	19.6
Physical Health Not Good	30.0
Stroke	45.2
Health Risk Behaviors	—
Binge Drinking	60.3
Current Smoker	25.4
No Leisure Time for Physical Activity	31.1
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	53.3

Elderly	86.8
English Speaking	28.6
Foreign-born	66.4
Outdoor Workers	40.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	18.0
Traffic Density	74.9
Traffic Access	23.0
Other Indices	—
Hardship	77.0
Other Decision Support	—
2016 Voting	3.6

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	99.0
Healthy Places Index Score for Project Location (b)	29.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
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 & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Total Project area is 14.16 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis
Operations: Energy Use	Project energy demand will be offset with solar. Project will not utilize natural gas.
Operations: Refrigerants	As of 1 January 2022, new commercial refrigeration equipment may not use refrigerants with a GWP of 150 or greater. Further, R-404A (the CalEEMod default) is unacceptable for new supermarket and cold storage systems as of 1 January 2019 and 2023, respectively. Beginning 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater.

Cherry Avenue Warehouse (Localized Operations) Option 7 Detailed Report

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1.2. Land Use Types

1.3. User-Selected Emission Reduction Measures by Emissions Sector

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

2.5. Operations Emissions by Sector, Unmitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Cherry Avenue Warehouse (Localized Operations) Option 7
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.30
Precipitation (days)	17.4
Location	5900 Cherry Ave, Long Beach, CA 90805, USA
County	Los Angeles-South Coast
City	Long Beach
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4714
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Long Beach Gas & Oil
App Version	2022.1.1.21

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
Manufacturing	76.1	1000sqft	1.75	76,086	0.00	—	—	—

User Defined Industrial	76.1	User Defined Unit	0.00	0.00	0.00	—	—	—
Unrefrigerated Warehouse-No Rail	228	1000sqft	5.24	228,258	0.00	—	—	—
User Defined Industrial	228	User Defined Unit	0.00	0.00	0.00	—	—	—
Parking Lot	338	Space	1.19	0.00	0.00	—	—	—
Other Asphalt Surfaces	261	1000sqft	5.99	0.00	0.00	—	—	—

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.	4.59	11.6	2.84	19.6	0.01	0.10	0.25	0.35	0.10	0.06	0.16	301	1,300	1,602	30.7	0.42	8.26	2,500
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.23	9.41	2.81	7.00	0.01	0.08	0.25	0.33	0.08	0.06	0.14	301	1,238	1,539	30.7	0.42	7.14	2,438
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.16	10.3	1.65	14.1	0.01	0.04	0.21	0.25	0.04	0.05	0.09	301	1,012	1,313	30.6	0.40	7.53	2,207
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	0.58	1.87	0.30	2.58	< 0.005	0.01	0.04	0.05	0.01	0.01	0.02	49.9	167	217	5.07	0.07	1.25	365

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	1.69	1.60	1.35	5.11	0.01	0.01	0.25	0.25	0.01	0.06	0.07	—	536	536	0.14	0.08	1.15	565
Area	2.35	9.51	0.11	13.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	54.4	54.4	< 0.005	< 0.005	—	54.6
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Waste	—	—	—	—	—	—	—	—	—	—	—	166	0.00	166	16.6	0.00	—	582
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.11	7.11
Stationary	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	4.59	11.6	2.84	19.6	0.01	0.10	0.25	0.35	0.10	0.06	0.16	301	1,300	1,602	30.7	0.42	8.26	2,500
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.68	1.59	1.44	5.74	< 0.005	0.01	0.25	0.25	0.01	0.06	0.07	—	528	528	0.15	0.08	0.03	557
Area	—	7.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Waste	—	—	—	—	—	—	—	—	—	—	—	166	0.00	166	16.6	0.00	—	582
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.11	7.11
Stationary	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	2.23	9.41	2.81	7.00	0.01	0.08	0.25	0.33	0.08	0.06	0.14	301	1,238	1,539	30.7	0.42	7.14	2,438

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.40	1.32	1.20	4.72	< 0.005	0.01	0.21	0.21	< 0.005	0.05	0.06	—	448	448	0.12	0.07	0.42	472
Area	1.61	8.82	0.08	9.06	< 0.005	0.02	—	0.02	0.01	—	0.01	—	37.3	37.3	< 0.005	< 0.005	—	37.4
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Waste	—	—	—	—	—	—	—	—	—	—	—	166	0.00	166	16.6	0.00	—	582
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.11	7.11	
Stationary	0.15	0.13	0.38	0.34	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	69.0	69.0	< 0.005	< 0.005	0.00	69.2
Total	3.16	10.3	1.65	14.1	0.01	0.04	0.21	0.25	0.04	0.05	0.09	301	1,012	1,313	30.6	0.40	7.53	2,207
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.26	0.24	0.22	0.86	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	74.1	74.1	0.02	0.01	0.07	78.1
Area	0.29	1.61	0.01	1.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.17	6.17	< 0.005	< 0.005	—	6.19
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	22.3	75.8	98.1	2.30	0.06	—	172
Waste	—	—	—	—	—	—	—	—	—	—	—	27.6	0.00	27.6	2.75	0.00	—	96.4
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.18	1.18	
Stationary	0.03	0.02	0.07	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	11.4	11.4	< 0.005	< 0.005	0.00	11.5
Total	0.58	1.87	0.30	2.58	< 0.005	0.01	0.04	0.05	0.01	0.01	0.02	49.9	167	217	5.07	0.07	1.25	365

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.87	0.84	0.20	2.37	< 0.005	< 0.005	0.11	0.12	< 0.005	0.03	0.03	—	170	170	0.05	0.02	0.41	178
User Defined Industrial	0.11	0.06	0.99	0.78	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	227	227	0.05	0.04	0.39	239
Unrefrigerated Warehouse-No Rail	0.72	0.70	0.16	1.95	< 0.005	< 0.005	0.09	0.10	< 0.005	0.02	0.03	—	140	140	0.04	0.02	0.34	147
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.69	1.60	1.35	5.11	0.01	0.01	0.25	0.25	0.01	0.06	0.07	—	536	536	0.14	0.08	1.15	565
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.87	0.84	0.22	2.70	< 0.005	< 0.005	0.11	0.12	< 0.005	0.03	0.03	—	164	164	0.06	0.03	0.01	173
User Defined Industrial	0.10	0.05	1.04	0.81	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	229	229	0.04	0.04	0.01	241
Unrefrigerated Warehouse-No Rail	0.72	0.69	0.18	2.23	< 0.005	< 0.005	0.09	0.10	< 0.005	0.02	0.03	—	135	135	0.05	0.02	0.01	143
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.68	1.59	1.44	5.74	< 0.005	0.01	0.25	0.25	0.01	0.06	0.07	—	528	528	0.15	0.08	0.03	557
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.12	0.12	0.03	0.38	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	21.7	21.7	0.01	< 0.005	0.02	22.8
User Defined Industrial	0.02	0.01	0.16	0.12	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	32.2	32.2	0.01	0.01	0.02	33.9
Unrefrigerated Warehouse-No Rail	0.12	0.11	0.03	0.36	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	20.3	20.3	0.01	< 0.005	0.02	21.4
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.26	0.24	0.22	0.86	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	74.1	74.1	0.02	0.01	0.07	78.1

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	2.35	2.17	0.11	13.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	54.4	54.4	< 0.005	< 0.005	—	54.6
Total	2.35	9.51	0.11	13.2	< 0.005	0.02	—	0.02	0.02	—	0.02	—	54.4	54.4	< 0.005	< 0.005	—	54.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	7.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	1.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.29	0.27	0.01	1.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.17	6.17	< 0.005	< 0.005	—	6.19
Total	0.29	1.61	0.01	1.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.17	6.17	< 0.005	< 0.005	—	6.19

4.4. Water Emissions by Land Use

4.4.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	33.7	114	148	3.47	0.08	—	260
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	101	343	444	10.4	0.25	—	779
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	33.7	114	148	3.47	0.08	—	260
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	101	343	444	10.4	0.25	—	779
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	135	458	592	13.9	0.33	—	1,039
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	5.58	18.9	24.5	0.57	0.01	—	43.0
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	16.7	56.8	73.6	1.72	0.04	—	129
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	22.3	75.8	98.1	2.30	0.06	—	172

4.5. Waste Emissions by Land Use

4.5.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	50.8	0.00	50.8	5.08	0.00	—	178
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	116	0.00	116	11.6	0.00	—	405
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	166	0.00	166	16.6	0.00	—	582
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Manufacturing	—	—	—	—	—	—	—	—	—	—	—	50.8	0.00	50.8	5.08	0.00	—	178
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	116	0.00	116	11.6	0.00	—	405
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	166	0.00	166	16.6	0.00	—	582
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	8.42	0.00	8.42	0.84	0.00	—	29.5
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	19.1	0.00	19.1	1.91	0.00	—	67.0
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	27.6	0.00	27.6	2.75	0.00	—	96.4

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.11	7.11
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.11	7.11
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.11	7.11
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.11	7.11
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.18	1.18
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.18	1.18

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Fire Pump	0.03	0.02	0.07	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	11.4	11.4	< 0.005	< 0.005	0.00	11.5
Total	0.03	0.02	0.07	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	11.4	11.4	< 0.005	< 0.005	0.00	11.5

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
Manufacturing	328	102	67.9	94,387	164	51.1	34.0	47,194
User Defined Industrial	35.7	11.1	7.40	10,277	17.9	5.57	3.70	5,139
Unrefrigerated Warehouse-No Rail	270	180	166	88,436	135	89.8	83.2	44,218
User Defined Industrial	52.4	34.9	32.3	17,159	26.2	17.4	16.1	8,580
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

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)
0	0.00	456,516	152,172	18,757

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)
Manufacturing	0.00	349	0.0330	0.0040	0.00
User Defined Industrial	0.00	349	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	0.00	349	0.0330	0.0040	0.00
User Defined Industrial	0.00	349	0.0330	0.0040	0.00
Parking Lot	0.00	349	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	349	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Manufacturing	17,594,888	0.00
User Defined Industrial	0.00	0.00
Unrefrigerated Warehouse-No Rail	52,784,663	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Manufacturing	94.3	—
User Defined Industrial	0.00	—
Unrefrigerated Warehouse-No Rail	215	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	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
Manufacturing	Other commercial A/C and heat pumps	User Defined	750	0.30	4.00	4.00	18.0

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

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

Fire Pump	Diesel	1.00	0.50	50.0	300	0.73

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

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	6.75	annual days of extreme heat
Extreme Precipitation	4.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	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 (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
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	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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 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	29.9

AQ-PM	83.0
AQ-DPM	64.6
Drinking Water	34.7
Lead Risk Housing	93.7
Pesticides	41.1
Toxic Releases	95.5
Traffic	52.6
Effect Indicators	—
CleanUp Sites	73.4
Groundwater	97.7
Haz Waste Facilities/Generators	97.4
Impaired Water Bodies	66.7
Solid Waste	93.2
Sensitive Population	—
Asthma	91.1
Cardio-vascular	89.0
Low Birth Weights	85.5
Socioeconomic Factor Indicators	—
Education	78.8
Housing	80.7
Linguistic	54.6
Poverty	67.2
Unemployment	60.6

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	32.60618504
Employed	27.51186963
Median HI	42.25587065
Education	—
Bachelor's or higher	18.42679328
High school enrollment	100
Preschool enrollment	36.10932888
Transportation	—
Auto Access	64.27563198
Active commuting	62.96676505
Social	—
2-parent households	24.09854998
Voting	9.354548954
Neighborhood	—
Alcohol availability	10.88156037
Park access	36.08366483
Retail density	68.71551392
Supermarket access	88.31002181
Tree canopy	37.89298088
Housing	—
Homeownership	47.09354549
Housing habitability	21.81444886
Low-inc homeowner severe housing cost burden	7.827537534
Low-inc renter severe housing cost burden	66.09778006
Uncrowded housing	25.445913
Health Outcomes	—

Insured adults	22.85384319
Arthritis	73.2
Asthma ER Admissions	11.6
High Blood Pressure	74.3
Cancer (excluding skin)	80.0
Asthma	34.7
Coronary Heart Disease	66.7
Chronic Obstructive Pulmonary Disease	45.1
Diagnosed Diabetes	33.2
Life Expectancy at Birth	24.0
Cognitively Disabled	35.0
Physically Disabled	25.6
Heart Attack ER Admissions	19.5
Mental Health Not Good	27.0
Chronic Kidney Disease	55.3
Obesity	30.7
Pedestrian Injuries	19.6
Physical Health Not Good	30.0
Stroke	45.2
Health Risk Behaviors	—
Binge Drinking	60.3
Current Smoker	25.4
No Leisure Time for Physical Activity	31.1
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	53.3

Elderly	86.8
English Speaking	28.6
Foreign-born	66.4
Outdoor Workers	40.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	18.0
Traffic Density	74.9
Traffic Access	23.0
Other Indices	—
Hardship	77.0
Other Decision Support	—
2016 Voting	3.6

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	99.0
Healthy Places Index Score for Project Location (b)	29.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
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 & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Total Project area is 14.16 acres
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis
Operations: Energy Use	Project energy demand will be offset with solar. Project will not utilize natural gas.
Operations: Refrigerants	As of 1 January 2022, new commercial refrigeration equipment may not use refrigerants with a GWP of 150 or greater. Further, R-404A (the CalEEMod default) is unacceptable for new supermarket and cold storage systems as of 1 January 2019 and 2023, respectively. Beginning 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater.

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APPENDIX 3.5:

AERMOD LST MODELING OUTPUTS

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/5/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Cons CO\14715 Cons CO.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 1 8
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID CO
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Cons CO.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
```

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   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL2         0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL3         0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL4         0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL5         0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL6         0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL7         0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL8         0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL9         0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL10        0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL11        0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL12        0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL13        0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL14        0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL15        0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL16        0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL17        0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL18        0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL19        0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL20        0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL21        0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL22        0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL23        0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL24        0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL25        0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL26        0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL27        0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL28        0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL29        0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL30        0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL31        0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL32        0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL33        0.0362243907     5.000    10.435     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
```

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** 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
** WeekDays:
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL5         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL6         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
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   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL7         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL8         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL9         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL10        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL11        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL12        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL13        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL14        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL15        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL16        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL17        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL18        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL19        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL20        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
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   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL21        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL22        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL23        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL24        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** Sunday:
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL25        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL26        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL27        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL28        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
```

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   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL29        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL30        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL31        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL32        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL33        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Cons CO.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 8 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14715 CONS CO.AD\01H1GALL.PLT" 31
   PLOTFILE 8 ALL 1ST "14715 CONS CO.AD\08H1GALL.PLT" 32
   SUMMFILE "14715 Cons CO.sum"
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

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** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/5/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Cons CO\14715 Cons CO.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 1 8
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID CO
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Cons CO.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
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   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL2         0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL3         0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL4         0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL5         0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL6         0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL7         0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL8         0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL9         0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL10        0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL11        0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL12        0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL13        0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL14        0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL15        0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL16        0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL17        0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL18        0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL19        0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL20        0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL21        0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL22        0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL23        0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL24        0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL25        0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL26        0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL27        0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL28        0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL29        0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL30        0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL31        0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL32        0.0362243907     5.000    10.435     1.400
   SRCPARAM VOL33        0.0362243907     5.000    10.435     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
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   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
** WeekDays:
   EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL5          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL6          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** WeekDays:
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL7         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL8         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL9         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL10        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL11        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
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   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL12        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL13        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL14        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL15        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL16        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL17        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL18        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL19        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
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   EMISFACT VOL20        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL21        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL22        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL23        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL24        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL25        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL26        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL27        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL28        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

```
** WeekDays:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL29        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL30        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL31        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL32        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL33        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
```

```
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Cons CO.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 8 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14715 CONS CO.AD\01H1GALL.PLT" 31
   PLOTFILE 8 ALL 1ST "14715 CONS CO.AD\08H1GALL.PLT" 32
   SUMMFILE "14715 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     626       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     626       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
```

```
 ***********************************
 *** SETUP Finishes Successfully ***
 ***********************************

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       16:30:52

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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    33 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   9818605.0 ;  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:     33 Source(s);       1 Source Group(s); and     105 Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:     33 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
```

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 10.00 ; 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: 14715 Cons
CO.err
**File for Summary of Results: 14715 Cons
CO.sum

FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1 *** 09/05/23
*** AERMET - VERSION 16216 ***
*** *** 16:30:52

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN SOURCE PART.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	
VOL1	0	0.36224E-01	391943.2	3747610.9	29.0	5.00	10.44	1.40	YES HRDOW
VOL2	0	0.36224E-01	391988.3	3747611.1	29.0	5.00	10.44	1.40	YES HRDOW
VOL3	0	0.36224E-01	392033.2	3747611.4	29.0	5.00	10.44	1.40	YES HRDOW
VOL4	0	0.36224E-01	392078.1	3747611.4	29.0	5.00	10.44	1.40	YES HRDOW
VOL5	0	0.36224E-01	392122.7	3747610.9	29.0	5.00	10.44	1.40	YES HRDOW
VOL6	0	0.36224E-01	392167.6	3747610.4	29.0	5.00	10.44	1.40	YES HRDOW
VOL7	0	0.36224E-01	392175.8	3747610.4	29.0	5.00	10.44	1.40	YES HRDOW
VOL8	0	0.36224E-01	392175.0	3747565.7	29.0	5.00	10.44	1.40	YES HRDOW
VOL9	0	0.36224E-01	392129.7	3747566.0	29.0	5.00	10.44	1.40	YES HRDOW
VOL10	0	0.36224E-01	392084.7	3747566.6	29.0	5.00	10.44	1.40	YES HRDOW
VOL11	0	0.36224E-01	392040.2	3747566.6	29.0	5.00	10.44	1.40	YES HRDOW
VOL12	0	0.36224E-01	391995.7	3747566.3	29.0	5.00	10.44	1.40	YES HRDOW
VOL13	0	0.36224E-01	391951.4	3747566.1	29.0	5.00	10.44	1.40	YES HRDOW
VOL14	0	0.36224E-01	391942.7	3747566.1	29.0	5.00	10.44	1.40	

```
 YES   HRDOW
 VOL15            0   0.36224E-01  391942.9 3747521.6    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL16            0   0.36224E-01  391987.4 3747522.1    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL17            0   0.36224E-01  392031.9 3747521.6    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL18            0   0.36224E-01  392076.4 3747521.4    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL19            0   0.36224E-01  392121.3 3747521.4    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL20            0   0.36224E-01  392165.8 3747521.6    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL21            0   0.36224E-01  392210.9 3747521.2    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL22            0   0.36224E-01  392219.6 3747557.0    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL23            0   0.36224E-01  392237.2 3747556.6    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL24            0   0.36224E-01  392256.9 3747546.6    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL25            0   0.36224E-01  392256.5 3747502.1    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL26            0   0.36224E-01  392256.3 3747484.5    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL27            0   0.36224E-01  392211.2 3747484.5    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL28            0   0.36224E-01  392167.1 3747484.7    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL29            0   0.36224E-01  392122.1 3747484.9    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL30            0   0.36224E-01  392076.7 3747485.0    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL31            0   0.36224E-01  392032.1 3747485.2    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL32            0   0.36224E-01  391987.1 3747485.9    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL33            0   0.36224E-01  391942.7 3747485.9    29.0     5.00    10.44     1.40
 YES   HRDOW
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       16:30:52

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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        ,

             VOL9        , VOL10       , VOL11       , VOL12       , VOL13       , VOL14       ,
             VOL15       , VOL16       ,

             VOL17       , VOL18       , VOL19       , VOL20       , VOL21       , VOL22       ,
             VOL23       , VOL24       ,

             VOL25       , VOL26       , VOL27       , VOL28       , VOL29       , VOL30       ,
             VOL31       , VOL32       ,
```

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
	9818605.	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 ,

* 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

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00				

* 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

* 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
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        16:30:52

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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
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        16:30:52

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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
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       16:30:52

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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
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       16:30:52

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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
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       16:30:52

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 *** MODELOPTs:    RegDFAULT  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
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       16:30:52
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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
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1 *** 09/05/23
*** AERMET - VERSION 16216 ***
*** *** 16:30:52

*** 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
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00												

* 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

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* 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

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6

.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

* 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

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

* 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

DAY OF WEEK = WEEKDAY

```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       16:30:52

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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
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       16:30:52

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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

*** 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

* 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
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* 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
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* 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

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* 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

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22

```
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       16:30:52

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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
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       16:30:52

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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

*** 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

* 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

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* 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

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00										

* 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

* 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

* 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

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

* 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

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00

```
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       16:30:52

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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
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       16:30:52

                    PAGE  36
 *** 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
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       16:30:52

                      PAGE  37
 *** 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   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391891.2, 3747480.4, 29.0, 29.0, 2.0); (391892.0, 3747456.0, 29.0, 29.0, 2.0);
(391965.0, 3747447.6, 29.0, 29.0, 2.0); (391925.4, 3747447.6, 29.0, 29.0, 2.0);
(392089.4, 3747454.7, 29.0, 29.0, 2.0); (392112.8, 3747454.8, 29.0, 29.0, 2.0);
(392033.3, 3747443.0, 29.0, 29.0, 2.0); (392142.4, 3747442.5, 29.0, 29.0, 2.0);
(392336.7, 3747437.7, 29.0, 29.0, 2.0); (392430.0, 3747448.2, 29.0, 29.0, 2.0);
(392412.4, 3747555.7, 29.0, 29.0, 2.0); (392343.8, 3747480.0, 29.0, 29.0, 2.0);
(392217.3, 3747461.2, 29.0, 29.0, 2.0); (392161.5, 3747408.9, 29.0, 29.0, 2.0);
(391879.2, 3747513.2, 29.0, 29.0, 2.0); (391891.6, 3747547.0, 29.0, 29.0, 2.0);
(391891.8, 3747573.7, 29.0, 29.0, 2.0); (391884.4, 3747601.9, 29.0, 29.0, 2.0);
(391891.1, 3747641.8, 29.0, 29.0, 2.0); (391889.3, 3747663.5, 29.0, 29.0, 2.0);
(391883.5, 3747699.9, 29.0, 29.0, 2.0); (391881.9, 3747730.8, 29.0, 29.0, 2.0);
(391884.4, 3747754.5, 29.0, 29.0, 2.0); (391885.4, 3747780.4, 29.0, 29.0, 2.0);
(391883.8, 3747768.0, 29.0, 29.0, 2.0); (391493.6, 3748488.3, 29.0, 29.0, 2.0);
(391947.1, 3747875.7, 29.0, 29.0, 2.0); (391983.1, 3747875.9, 29.0, 29.0, 2.0);
(391885.5, 3747791.7, 29.0, 29.0, 2.0); (391889.3, 3747804.0, 29.0, 29.0, 2.0);
(391887.5, 3747815.9, 29.0, 29.0, 2.0); (391874.8, 3747826.1, 29.0, 29.0, 2.0);
(391892.7, 3747852.0, 29.0, 29.0, 2.0); (391892.5, 3747880.5, 29.0, 29.0, 2.0);
(392032.9, 3747873.7, 29.0, 29.0, 2.0); (392140.3, 3747873.4, 29.0, 29.0, 2.0);
(392233.5, 3747864.9, 29.0, 29.0, 2.0); (392523.2, 3747518.4, 28.3, 28.3, 2.0);
(392655.0, 3747574.8, 28.0, 28.0, 2.0); (392733.5, 3747870.8, 27.6, 27.6, 2.0);
(391927.6, 3747940.8, 29.0, 29.0, 2.0); (391927.8, 3747987.4, 29.0, 29.0, 2.0);
(391941.0, 3748045.5, 29.0, 29.0, 2.0); (391926.8, 3748083.3, 29.0, 29.0, 2.0);
(391928.4, 3748118.6, 29.0, 29.0, 2.0); (391927.6, 3748149.1, 29.0, 29.0, 2.0);
(391892.5, 3747904.7, 29.0, 29.0, 2.0); (391892.0, 3747917.8, 29.0, 29.0, 2.0);
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(391893.3, 3747955.0, 29.0, 29.0, 2.0); (391893.8, 3747978.6, 29.0, 29.0, 2.0);
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(391893.8, 3748088.4, 29.0, 29.0, 2.0); (391894.6, 3748143.8, 29.0, 29.0, 2.0);
(391894.1, 3748120.5, 29.0, 29.0, 2.0); (391894.6,

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(391891.1, 3748182.9, 29.0, 29.0, 2.0); (391893.0,
3748196.0, 29.0, 29.0, 2.0);
(391927.3, 3748191.7, 29.0, 29.0, 2.0); (391928.6,
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(391928.6, 3748260.0, 29.0, 29.0, 2.0); (391894.4,
3748207.5, 29.0, 29.0, 2.0);
(391891.1, 3748220.1, 29.0, 29.0, 2.0); (391891.1,
3748231.1, 29.0, 29.0, 2.0);
(391891.1, 3748243.4, 29.0, 29.0, 2.0); (391891.1,
3748255.7, 29.0, 29.0, 2.0);
(391895.2, 3748287.0, 29.0, 29.0, 2.0); (391895.4,
3748311.1, 29.0, 29.0, 2.0);
(391886.1, 3748326.9, 29.0, 29.0, 2.0); (391893.8,
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(391942.1, 3748346.0, 29.0, 29.0, 2.0); (391935.3,
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(391897.0, 3748404.4, 29.0, 29.0, 2.0); (391938.9,
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(391932.5, 3748387.6, 29.0, 29.0, 2.0); (391891.7,
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3748424.2, 29.0, 29.0, 2.0);
(391929.7, 3748439.2, 29.0, 29.0, 2.0); (391928.7,
3748454.6, 29.0, 29.0, 2.0);
(391897.0, 3748453.1, 29.0, 29.0, 2.0); (391866.1,
3747496.0, 29.0, 29.0, 2.0);
(391854.5, 3747480.5, 29.0, 29.0, 2.0); (391855.5,
3747526.9, 29.0, 29.0, 2.0);
(391854.2, 3747514.0, 29.0, 29.0, 2.0); (391855.2,
3747538.9, 29.0, 29.0, 2.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391855.5, 3747549.8, 29.0, 29.0, 2.0); (392423.8,
3747240.4, 29.0, 29.0, 2.0);
(391889.9, 3747651.9, 29.0, 29.0, 2.0); (391854.0,
3747577.0, 29.0, 29.0, 2.0);
(391854.2, 3747603.1, 29.0, 29.0, 2.0); (391855.0,
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(391855.6, 3747626.4, 29.0, 29.0, 2.0); (391854.1,
3747455.5, 29.0, 29.0, 2.0);
(391853.4, 3747443.5, 29.0, 29.0, 2.0); (391888.7,
3747380.1, 29.0, 29.0, 2.0);
(391853.6, 3747430.3, 29.0, 29.0, 2.0); (391842.3,
3747485.1, 29.0, 29.0, 2.0);
(391705.1, 3747221.2, 29.0, 29.0, 2.0); (391890.3,
3747198.7, 29.0, 29.0, 2.0);
(391791.8, 3747248.3, 29.0, 29.0,
2.0);

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

```
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1 *** 09/05/23
*** AERMET - VERSION 16216 ***
*** *** 16:30:52

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file:
KLGB_V9_ADJU\KLGB_v9.SFC Met
Version: 16216
Profile file:
KLGB_V9_ADJU\KLGB_v9.PFL
Surface format:
FREE

Profile format:
FREE

Surface station no.: 23129 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	-5.3	0.094	-9.000	-9.000	-999.	70.	14.3	0.10	2.68	1.00	1.13	322.	7.9	282.0	2.0
12	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	2.68	1.00	0.00				

```
 0.    7.9  281.4    2.0
 12 01 01   1 03   -2.5  0.068 -9.000 -9.000 -999.   43.     11.4  0.10   2.68   1.00    0.74
 79.    7.9  280.9    2.0
 12 01 01   1 04   -3.2  0.075 -9.000 -9.000 -999.   49.     11.7  0.10   2.68   1.00    0.86
 137.    7.9  280.9    2.0
 12 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.10   2.68   1.00    0.00
 0.    7.9  280.4    2.0
 12 01 011 06      -5.2  0.093 -9.000 -9.000 -999.   68.     14.0  0.10   2.68   1.00    1.11
 92.    7.9  279.9    2.0
 12 01 01   1 07   -2.3  0.066 -9.000 -9.000 -999.   41.     11.5  0.10   2.68   1.00    0.69
 67.    7.9  278.8    2.0
 12 01 01   1 08   -1.7  0.060 -9.000 -9.000 -999.   36.     11.4  0.10   2.68   0.54    0.65
 91.    7.9  279.9    2.0
 12 01 01   1 09   36.2 -9.000 -9.000 -9.000   37. -999. -99999.0  0.10   2.68   0.31    0.00
 0.    7.9  283.8    2.0
 12 01 01   1 10  108.4  0.139  0.707  0.009  119.  124.     -2.3  0.10   2.68   0.24    0.92
 319.    7.9  287.5    2.0
 12 01 01   1 11  160.5  0.114  1.137  0.005  334.   93.     -1.0  0.10   2.68   0.21    0.62
 23.    7.9  292.5    2.0
 12 01 01   1 12  186.7  0.125  1.473  0.005  623.  105.     -1.0  0.10   2.68   0.20    0.69
 18.    7.9  295.4    2.0
 12 01 01   1 13  186.8  0.130  1.761  0.005 1065.  112.     -1.1  0.10   2.68   0.20    0.74
 250.    7.9  297.5    2.0
 12 01 01   1 14  161.7  0.150  1.834  0.005 1387.  139.     -1.9  0.10   2.68   0.21    0.96
 347.    7.9  300.4    2.0
 12 01 01   1 15  105.5  0.243  1.633  0.005 1499.  288.    -12.4  0.10   2.68   0.24    2.11
 194.    7.9  295.9    2.0
 12 01 01   1 16   32.4  0.211  1.109  0.005 1530.  233.    -26.3  0.10   2.68   0.33    1.98
 186.    7.9  295.4    2.0
 12 01 01   1 17  -20.5  0.250 -9.000 -9.000 -999.  300.     69.2  0.10   2.68   0.60    2.81
 293.    7.9  291.4    2.0
 12 01 01   1 18  -25.4  0.257 -9.000 -9.000 -999.  313.     72.8  0.10   2.68   1.00    2.90
 301.    7.9  288.1    2.0
 12 01 01   1 19  -21.0  0.211 -9.000 -9.000 -999.  233.     49.0  0.10   2.68   1.00    2.40
 313.    7.9  286.4    2.0
 12 01 01   1 20  -25.7  0.258 -9.000 -9.000 -999.  315.     73.3  0.10   2.68   1.00    2.91
 302.    7.9  286.4    2.0
 12 01 01   1 21  -22.5  0.225 -9.000 -9.000 -999.  256.     55.7  0.10   2.68   1.00    2.55
 306.    7.9  285.4    2.0
 12 01 01   1 22   -9.3  0.126 -9.000 -9.000 -999.  111.     19.5  0.10   2.68   1.00    1.48
 284.    7.9  285.9    2.0
 12 01 01   1 23  -21.4  0.214 -9.000 -9.000 -999.  237.     50.3  0.10   2.68   1.00    2.43
 282.    7.9  285.4    2.0
 12 01 01   1 24  -30.1  0.300 -9.000 -9.000 -999.  394.     98.9  0.10   2.68   1.00    3.36
 300.    7.9  284.2    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  322.    1.13   282.1   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        16:30:52

                     PAGE  42
 *** 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)
391891.24	3747480.41	93.53825	(14032409)	391892.01	3747456.00	83.85615	(14032409)
391965.04	3747447.61	106.32405	(12112610)	391925.38	3747447.61	106.82074	(12112610)
392089.38	3747454.66	140.67027	(12122516)	392112.83	3747454.85	155.93472	(12122516)
392033.31	3747443.03	110.52834	(13112916)	392142.39	3747442.46	121.63044	(12122516)
392336.71	3747437.69	134.95396	(12122516)	392429.96	3747448.18	77.93603	(12122516)
392412.42	3747555.73	49.77942	(12121416)	392343.77	3747480.03	153.48060	(12122516)
392217.30	3747461.24	202.69311	(12122516)	392161.48	3747408.94	75.76563	(13112916)
391879.25	3747513.22	91.14461	(14032109)	391891.65	3747546.98	108.24410	(14032109)
391891.84	3747573.68	108.98498	(14121611)	391884.40	3747601.90	96.39348	(13012415)
391891.08	3747641.76	109.27921	(12112916)	391889.35	3747663.46	100.41156	(12112916)
391883.45	3747699.92	75.15997	(12112916)	391881.92	3747730.82	60.23961	(12112916)
391884.40	3747754.47	51.98678	(12112916)	391885.36	3747780.40	44.92134	(12112916)
391883.83	3747768.01	48.12212	(12112916)	391493.56	3748488.26	3.67917	(13012316)
391947.12	3747875.71	21.93705	(12112915)	391983.08	3747875.94	22.83160	(12120516)
391885.46	3747791.74	42.24658	(12112916)	391889.32	3747804.03	39.43840	(12112916)
391887.50	3747815.86	37.01796	(12112916)	391874.76	3747826.10	35.42188	(12112916)
391892.74	3747852.04	29.76231	(12112916)	391892.51	3747880.49	24.69769	(12112916)
392032.89	3747873.67	24.84271	(12120516)	392140.29	3747873.36	28.90004	(13112016)
392233.52	3747864.86	27.94088	(13112016)	392523.19	3747518.42	28.12321	(14020616)
392655.00	3747574.84	17.26672	(12121416)	392733.47	3747870.77	7.73682	(16112216)
391927.56	3747940.84	17.28261	(12112915)	391927.83	3747987.42	15.09368	(14123016)
391940.95	3748045.52	13.63636	(14123016)	391926.76	3748083.27	12.24744	(14123016)
391928.37	3748118.62	11.49035	(14123016)	391927.56	3748149.14	10.84990	(14123016)
391892.49	3747904.69	20.72510	(12112916)	391891.96	3747917.81	18.76737	(12112916)
391891.15	3747931.74	17.15488	(12112915)	391885.26	3747942.98	16.41052	(12112915)
391893.29	3747955.03	16.04444	(12112915)	391893.83	3747978.59	14.97369	(12112915)

391893.03 3747994.39 14.28718 (12112915) 391885.80
3748035.62 12.62874 (12112915)
391893.83 3748088.36 11.38241 (16122316) 391894.63
3748143.78 10.23361 (16122316)
391894.10 3748120.49 10.69776 (16122316) 391894.63
3748155.30 10.01027 (16122316)
391891.15 3748182.87 9.48666 (16122316) 391893.03
3748195.99 9.25573 (16122316)
391927.30 3748191.71 10.06547 (14123016) 391928.64
3748236.15 9.35667 (14123016)
391928.64 3748259.98 8.99398 (14123016) 391894.37
3748207.50 9.08014 (14123016)
391891.15 3748220.09 8.83621 (16122316) 391891.15
3748231.06 8.69034 (14123016)
391891.15 3748243.38 8.53889 (14123016) 391891.15
3748255.70 8.39120 (14123016)
391895.17 3748287.02 8.11079 (14123016) 391895.44
3748311.12 7.84429 (14123016)
391886.07 3748326.91 7.51152 (14123016) 391893.83
3748337.09 7.53918 (14123016)
391896.46 3748353.98 7.40268 (14123016) 391943.47
3748329.02 8.12275 (14123016)
391942.12 3748346.05 7.88918 (14123016) 391935.35
3748361.91 7.66153 (14123016)
391897.02 3748404.40 6.90805 (14123016) 391938.93
3748376.12 7.49713 (14123016)
391932.47 3748387.64 7.33933 (14123016) 391891.74
3748427.33 6.64017 (14123016)

*** 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)

391929.07 3748405.45 7.12301 (14123016) 391929.40
3748424.21 6.91670 (14123016)
391929.73 3748439.17 6.75673 (14123016) 391928.74
3748454.63 6.59358 (14123016)
391897.00 3748453.15 6.45762 (14123016) 391866.08
3747495.99 78.45402 (14121615)
391854.46 3747480.49 66.84368 (14121615) 391855.46
3747526.86 73.92296 (14121615)
391854.21 3747513.99 73.05275 (14121615) 391855.21
3747538.86 73.78485 (14121615)

391855.46 3747549.85 74.51163 (13122516) 392423.79
3747240.43 17.86415 (15120216)
391889.87 3747651.95 106.23075 (12112916) 391853.95
3747577.01 73.23729 (14121611)
391854.20 3747603.13 74.51001 (13112216) 391854.95
3747615.63 72.39239 (13112216)
391855.57 3747626.38 69.54610 (13112216) 391854.14
3747455.54 55.98666 (14032409)
391853.42 3747443.48 52.95863 (14032409) 391888.71
3747380.11 43.67878 (12112610)
391853.60 3747430.34 49.11582 (14032409) 391842.26
3747485.07 62.83899 (14121615)
391705.13 3747221.17 12.59507 (14123012) 391890.27
3747198.72 14.82422 (12112610)
391791.77 3747248.29 16.18208
(12112610)

*** 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 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391891.24	3747480.41	53.14858	(14121616)	391892.01	3747456.00	34.35939	(16121916)
391965.04	3747447.61	52.15729	(13112916)	391925.38	3747447.61	40.02880	(16121916)
392089.38	3747454.66	85.35777	(12122516)	392112.83	3747454.85	87.37731	(12122516)
392033.31	3747443.03	60.53286	(12122516)	392142.39	3747442.46	69.87100	(12122516)
392336.71	3747437.69	37.23294	(16011916)	392429.96	3747448.18	16.12669	(12122616)
392412.42	3747555.73	21.09945	(12110916)	392343.77	3747480.03	36.63218	(14013116)
392217.30	3747461.24	103.72887	(12122516)	392161.48	3747408.94	40.17162	(12122516)
391879.25	3747513.22	60.86084	(14121616)	391891.65	3747546.98	73.95707	(14121616)
391891.84	3747573.68	78.36461	(14121616)	391884.40	3747601.90	58.75845	(14121616)
391891.08	3747641.76	53.77771	(12112916)	391889.35	3747663.46	46.52428	(12112916)
391883.45	3747699.92	33.87631	(12112916)	391881.92	3747730.82	27.11384	(12112916)

391884.40 3747754.47 23.51936 (12112916) 391885.36
3747780.40 20.20420 (12112916)
391883.83 3747768.01 21.63180 (12112916) 391493.56
3748488.26 1.48153 (12112916)
391947.12 3747875.71 12.18591 (16122316) 391983.08
3747875.94 12.01806 (16122316)
391885.46 3747791.74 18.95419 (12112916) 391889.32
3747804.03 17.83050 (12112916)
391887.50 3747815.86 16.67907 (12112916) 391874.76
3747826.10 15.50771 (12112916)
391892.74 3747852.04 13.84931 (12112916) 391892.51
3747880.49 11.94368 (12112916)
392032.89 3747873.67 12.93079 (13043016) 392140.29
3747873.36 14.93791 (13092016)
392233.52 3747864.86 14.41845 (13092016) 392523.19
3747518.42 11.43909 (12110916)
392655.00 3747574.84 6.94531 (12110916) 392733.47
3747870.77 2.87986 (12022716)
391927.56 3747940.84 9.45784 (16122316) 391927.83
3747987.42 8.01108 (16122316)
391940.95 3748045.52 6.47759 (16122316) 391926.76
3748083.27 5.80001 (16122316)
391928.37 3748118.62 5.14860 (16122316) 391927.56
3748149.14 4.66305 (16122316)
391892.49 3747904.69 10.58370 (16122316) 391891.96
3747917.81 10.09316 (16122316)
391891.15 3747931.74 9.60739 (16122316) 391885.26
3747942.98 9.18687 (16122316)
391893.29 3747955.03 8.89879 (16122316) 391893.83
3747978.59 8.23963 (16122316)
391893.03 3747994.39 7.82936 (16122316) 391885.80
3748035.62 6.87421 (16122316)
391893.83 3748088.36 5.86427 (16122316) 391894.63
3748143.78 4.96526 (16122316)
391894.10 3748120.49 5.32506 (16122316) 391894.63
3748155.30 4.79762 (16122316)
391891.15 3748182.87 4.43841 (16122316) 391893.03
3748195.99 4.25971 (16122316)
391927.30 3748191.71 4.05853 (16122316) 391928.64
3748236.15 3.49823 (16122316)
391928.64 3748259.98 3.23634 (16122316) 391894.37
3748207.50 4.10900 (16122316)
391891.15 3748220.09 3.97789 (16122316) 391891.15
3748231.06 3.85151 (16122316)
391891.15 3748243.38 3.71435 (16122316) 391891.15
3748255.70 3.58204 (16122316)
391895.17 3748287.02 3.23869 (16122316) 391895.44
3748311.12 3.01245 (16122316)
391886.07 3748326.91 2.93860 (16122316) 391893.83
3748337.09 2.79967 (16122316)
391896.46 3748353.98 2.64407 (16122316) 391943.47
3748329.02 2.48732 (13111516)
391942.12 3748346.05 2.38433 (13111516) 391935.35
3748361.91 2.30017 (13111516)
391897.02 3748404.40 2.27137 (16122316) 391938.93
3748376.12 2.21749 (13111516)
391932.47 3748387.64 2.16445 (13111516) 391891.74
3748427.33 2.15794 (16122316)

*** 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 (M)	CONC	(YYMMDDHH)
391929.07	3748405.45	2.07881	(13111516)	391929.40	3748424.21	1.98939	(13111516)
391929.73	3748439.17	1.92136	(13111516)	391928.74	3748454.63	1.85591	(13111516)
391897.00	3748453.15	1.96535	(16122316)	391866.08	3747495.99	47.22470	(14121616)
391854.46	3747480.49	35.05060	(14121616)	391855.46	3747526.86	49.92556	(14121616)
391854.21	3747513.99	46.87066	(14121616)	391855.21	3747538.86	51.45266	(14121616)
391855.46	3747549.85	52.68526	(14121616)	392423.79	3747240.43	7.35818	(14120116)
391889.87	3747651.95	50.29320	(12112916)	391853.95	3747577.01	51.24899	(14121616)
391854.20	3747603.13	44.36640	(14121616)	391854.95	3747615.63	39.67213	(14121616)
391855.57	3747626.38	34.88243	(14121616)	391854.14	3747455.54	24.97522	(14120216)
391853.42	3747443.48	22.54306	(16121916)	391888.71	3747380.11	17.47305	(16121916)
391853.60	3747430.34	22.06375	(16121916)	391842.26	3747485.07	33.01175	(14121616)
391705.13	3747221.17	5.58041	(16121916)	391890.27	3747198.72	4.65679	(15011516)
391791.77	3747248.29	6.42641	(16121916)				

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF CO IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID

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- - - - - - - - - - - - - - - - - - - -

ALL      HIGH   1ST HIGH VALUE IS     202.69311  ON 12122516: AT (  392217.30,  3747461.24,
29.00,    29.00,    2.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        16:30:52

                      PAGE  47
 *** 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                         AVERAGE CONC     (YYMMDDHH)            RECEPTOR  (XR, YR,
ZELEV, ZHILL, ZFLAG)    OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

ALL      HIGH   1ST HIGH VALUE IS     103.72887  ON 12122516: AT (  392217.30,  3747461.24,
29.00,    29.00,    2.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        16:30:52

                      PAGE  48
 *** 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          1017 Informational Message(s)

 A Total of         43848 Hours Were Processed

 A Total of           747 Calm Hours Identified

 A Total of           270 Missing Hours Identified (  0.62 Percent)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***
```

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   ********   WARNING MESSAGES   ********
ME W186     626       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187     626       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

   ***********************************
   *** AERMOD Finishes Successfully ***
   ***********************************
```

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**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/5/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Cons NOX\14715 Cons
NOX.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 1
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID NOX
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Cons NOX.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
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   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL2         0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL3         0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL4         0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL5         0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL6         0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL7         0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL8         0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL9         0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL10        0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL11        0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL12        0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL13        0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL14        0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL15        0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL16        0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL17        0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL18        0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL19        0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL20        0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL21        0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL22        0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL23        0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL24        0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL25        0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL26        0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL27        0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL28        0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL29        0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL30        0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL31        0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL32        0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL33        0.0202837496     5.000    10.435     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
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   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
** WeekDays:
   EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL5          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL6          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** WeekDays:
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL7         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL8         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL9         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL10        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL11        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
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   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL12        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL13        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL14        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL15        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL16        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL17        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL18        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL19        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
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   EMISFACT VOL20        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL21        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL22        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL23        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL24        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL25        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL26        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL27        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL28        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

```
** WeekDays:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL29        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL30        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL31        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL32        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL33        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
```

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   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Cons NOX.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14715 CONS NOX.AD\01H1GALL.PLT" 31
   SUMMFILE "14715 Cons NOX.sum"
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

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** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/5/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Cons NOX\14715 Cons
NOX.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 1
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID NOX
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Cons NOX.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
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   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL2         0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL3         0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL4         0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL5         0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL6         0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL7         0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL8         0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL9         0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL10        0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL11        0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL12        0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL13        0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL14        0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL15        0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL16        0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL17        0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL18        0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL19        0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL20        0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL21        0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL22        0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL23        0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL24        0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL25        0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL26        0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL27        0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL28        0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL29        0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL30        0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL31        0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL32        0.0202837496     5.000    10.435     1.400
   SRCPARAM VOL33        0.0202837496     5.000    10.435     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
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   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
** WeekDays:
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL5         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL6         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL7          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL8          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL9          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL10         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL11         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** Saturday:
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL12        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL13        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL14        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL15        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
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   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL16        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL17        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL18        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL19        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL20        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL20        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL21        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL22        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL23        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL24        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL25        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL26        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL27        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL28        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL29        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL30        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL31        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL32        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL33        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

```
** Saturday:
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Cons NOX.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14715 CONS NOX.AD\01H1GALL.PLT" 31
   SUMMFILE "14715 Cons NOX.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     626       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     626       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
```

```
 ***********************************
 *** SETUP Finishes Successfully ***
 ***********************************

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       16:34:13

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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    33 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   9818605.0 ;  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:     33 Source(s);       1 Source Group(s); and     105 Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:     33 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) = 10.00 ; 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: 14715 Cons
NOX.err
**File for Summary of Results: 14715 Cons
NOX.sum
FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1 *** 09/05/23
*** AERMET - VERSION 16216 ***
*** *** 16:34:13

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN SOURCE PART.	EMISSION RATE (GRAMS/SEC) SCALAR VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
VOL1	0	0.20284E-01	391943.2	3747610.9	29.0	5.00	10.44	1.40
YES	HRDOW							
VOL2	0	0.20284E-01	391988.3	3747611.1	29.0	5.00	10.44	1.40
YES	HRDOW							
VOL3	0	0.20284E-01	392033.2	3747611.4	29.0	5.00	10.44	1.40
YES	HRDOW							
VOL4	0	0.20284E-01	392078.1	3747611.4	29.0	5.00	10.44	1.40
YES	HRDOW							
VOL5	0	0.20284E-01	392122.7	3747610.9	29.0	5.00	10.44	1.40
YES	HRDOW							
VOL6	0	0.20284E-01	392167.6	3747610.4	29.0	5.00	10.44	1.40
YES	HRDOW							
VOL7	0	0.20284E-01	392175.8	3747610.4	29.0	5.00	10.44	1.40
YES	HRDOW							
VOL8	0	0.20284E-01	392175.0	3747565.7	29.0	5.00	10.44	1.40
YES	HRDOW							
VOL9	0	0.20284E-01	392129.7	3747566.0	29.0	5.00	10.44	1.40
YES	HRDOW							
VOL10	0	0.20284E-01	392084.7	3747566.6	29.0	5.00	10.44	1.40
YES	HRDOW							
VOL11	0	0.20284E-01	392040.2	3747566.6	29.0	5.00	10.44	1.40
YES	HRDOW							
VOL12	0	0.20284E-01	391995.7	3747566.3	29.0	5.00	10.44	1.40
YES	HRDOW							
VOL13	0	0.20284E-01	391951.4	3747566.1	29.0	5.00	10.44	1.40
YES	HRDOW							
VOL14	0	0.20284E-01	391942.7	3747566.1	29.0	5.00	10.44	1.40
YES	HRDOW							

```
 VOL15           0   0.20284E-01  391942.9 3747521.6    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL16           0   0.20284E-01  391987.4 3747522.1    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL17           0   0.20284E-01  392031.9 3747521.6    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL18           0   0.20284E-01  392076.4 3747521.4    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL19           0   0.20284E-01  392121.3 3747521.4    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL20           0   0.20284E-01  392165.8 3747521.6    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL21           0   0.20284E-01  392210.9 3747521.2    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL22           0   0.20284E-01  392219.6 3747557.0    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL23           0   0.20284E-01  392237.2 3747556.6    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL24           0   0.20284E-01  392256.9 3747546.6    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL25           0   0.20284E-01  392256.5 3747502.1    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL26           0   0.20284E-01  392256.3 3747484.5    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL27           0   0.20284E-01  392211.2 3747484.5    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL28           0   0.20284E-01  392167.1 3747484.7    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL29           0   0.20284E-01  392122.1 3747484.9    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL30           0   0.20284E-01  392076.7 3747485.0    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL31           0   0.20284E-01  392032.1 3747485.2    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL32           0   0.20284E-01  391987.1 3747485.9    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL33           0   0.20284E-01  391942.7 3747485.9    29.0     5.00    10.44     1.40
 YES   HRDOW
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***       16:34:13

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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        ,

             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       ,
```

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
	9818605.	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 ,

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL1 ; SOURCE TYPE = VOLUME :

DAY OF WEEK = WEEKDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* 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
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* 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
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22													

```
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        16:34:13

                     PAGE   8
 *** 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
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        16:34:13

                     PAGE   9
 *** 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
```


* 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
```


* 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
```


*** MODELOPTs: RegDFAULT 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
```

*** 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
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

*** 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
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	

* 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

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* 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

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00												

DAY OF WEEK = SUNDAY

* 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

DAY OF WEEK = SATURDAY

DAY OF WEEK = SUNDAY

* 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

```
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .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

*** 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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 *** AERMET - VERSION  16216 ***
 ***                                                                         ***        16:34:13

                     PAGE  22
 *** 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
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                         ***        16:34:13

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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 = 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
```

* 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

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* 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

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

*** 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

*** 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

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* 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

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22

* 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

* 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
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       16:34:13

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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 = 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
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       16:34:13

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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 = 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
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       16:34:13

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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 = 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
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       16:34:13

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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 = 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
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       16:34:13

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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 = 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
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       16:34:13
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391891.2, 3747480.4, 29.0, 29.0, 2.0); (391892.0, 3747456.0, 29.0, 29.0, 2.0);
(391965.0, 3747447.6, 29.0, 29.0, 2.0); (391925.4, 3747447.6, 29.0, 29.0, 2.0);
(392089.4, 3747454.7, 29.0, 29.0, 2.0); (392112.8, 3747454.8, 29.0, 29.0, 2.0);
(392033.3, 3747443.0, 29.0, 29.0, 2.0); (392142.4, 3747442.5, 29.0, 29.0, 2.0);
(392336.7, 3747437.7, 29.0, 29.0, 2.0); (392430.0, 3747448.2, 29.0, 29.0, 2.0);
(392412.4, 3747555.7, 29.0, 29.0, 2.0); (392343.8, 3747480.0, 29.0, 29.0, 2.0);
(392217.3, 3747461.2, 29.0, 29.0, 2.0); (392161.5, 3747408.9, 29.0, 29.0, 2.0);
(391879.2, 3747513.2, 29.0, 29.0, 2.0); (391891.6, 3747547.0, 29.0, 29.0, 2.0);
(391891.8, 3747573.7, 29.0, 29.0, 2.0); (391884.4, 3747601.9, 29.0, 29.0, 2.0);
(391891.1, 3747641.8, 29.0, 29.0, 2.0); (391889.3, 3747663.5, 29.0, 29.0, 2.0);
(391883.5, 3747699.9, 29.0, 29.0, 2.0); (391881.9, 3747730.8, 29.0, 29.0, 2.0);
(391884.4, 3747754.5, 29.0, 29.0, 2.0); (391885.4, 3747780.4, 29.0, 29.0, 2.0);
(391883.8, 3747768.0, 29.0, 29.0, 2.0); (391493.6, 3748488.3, 29.0, 29.0, 2.0);
(391947.1, 3747875.7, 29.0, 29.0, 2.0); (391983.1, 3747875.9, 29.0, 29.0, 2.0);
(391885.5, 3747791.7, 29.0, 29.0, 2.0); (391889.3, 3747804.0, 29.0, 29.0, 2.0);
(391887.5, 3747815.9, 29.0, 29.0, 2.0); (391874.8, 3747826.1, 29.0, 29.0, 2.0);
(391892.7, 3747852.0, 29.0, 29.0, 2.0); (391892.5, 3747880.5, 29.0, 29.0, 2.0);
(392032.9, 3747873.7, 29.0, 29.0, 2.0); (392140.3, 3747873.4, 29.0, 29.0, 2.0);
(392233.5, 3747864.9, 29.0, 29.0, 2.0); (392523.2, 3747518.4, 28.3, 28.3, 2.0);
(392655.0, 3747574.8, 28.0, 28.0, 2.0); (392733.5, 3747870.8, 27.6, 27.6, 2.0);
(391927.6, 3747940.8, 29.0, 29.0, 2.0); (391927.8, 3747987.4, 29.0, 29.0, 2.0);
(391941.0, 3748045.5, 29.0, 29.0, 2.0); (391926.8, 3748083.3, 29.0, 29.0, 2.0);
(391928.4, 3748118.6, 29.0, 29.0, 2.0); (391927.6, 3748149.1, 29.0, 29.0, 2.0);
(391892.5, 3747904.7, 29.0, 29.0, 2.0); (391892.0, 3747917.8, 29.0, 29.0, 2.0);
(391891.1, 3747931.7, 29.0, 29.0, 2.0); (391885.3, 3747943.0, 29.0, 29.0, 2.0);
(391893.3, 3747955.0, 29.0, 29.0, 2.0); (391893.8, 3747978.6, 29.0, 29.0, 2.0);
(391893.0, 3747994.4, 29.0, 29.0, 2.0); (391885.8, 3748035.6, 29.0, 29.0, 2.0);
(391893.8, 3748088.4, 29.0, 29.0, 2.0); (391894.6, 3748143.8, 29.0, 29.0, 2.0);
(391894.1, 3748120.5, 29.0, 29.0, 2.0); (391894.6, 3748155.3, 29.0, 29.0, 2.0);

(391891.1, 3748182.9, 29.0, 29.0, 2.0); (391893.0, 3748196.0, 29.0, 29.0, 2.0);
(391927.3, 3748191.7, 29.0, 29.0, 2.0); (391928.6, 3748236.1, 29.0, 29.0, 2.0);
(391928.6, 3748260.0, 29.0, 29.0, 2.0); (391894.4, 3748207.5, 29.0, 29.0, 2.0);
(391891.1, 3748220.1, 29.0, 29.0, 2.0); (391891.1, 3748231.1, 29.0, 29.0, 2.0);
(391891.1, 3748243.4, 29.0, 29.0, 2.0); (391891.1, 3748255.7, 29.0, 29.0, 2.0);
(391895.2, 3748287.0, 29.0, 29.0, 2.0); (391895.4, 3748311.1, 29.0, 29.0, 2.0);
(391886.1, 3748326.9, 29.0, 29.0, 2.0); (391893.8, 3748337.1, 29.0, 29.0, 2.0);
(391896.5, 3748354.0, 29.0, 29.0, 2.0); (391943.5, 3748329.0, 29.0, 29.0, 2.0);
(391942.1, 3748346.0, 29.0, 29.0, 2.0); (391935.3, 3748361.9, 29.0, 29.0, 2.0);
(391897.0, 3748404.4, 29.0, 29.0, 2.0); (391938.9, 3748376.1, 29.0, 29.0, 2.0);
(391932.5, 3748387.6, 29.0, 29.0, 2.0); (391891.7, 3748427.3, 29.0, 29.0, 2.0);
(391929.1, 3748405.4, 29.0, 29.0, 2.0); (391929.4, 3748424.2, 29.0, 29.0, 2.0);
(391929.7, 3748439.2, 29.0, 29.0, 2.0); (391928.7, 3748454.6, 29.0, 29.0, 2.0);
(391897.0, 3748453.1, 29.0, 29.0, 2.0); (391866.1, 3747496.0, 29.0, 29.0, 2.0);
(391854.5, 3747480.5, 29.0, 29.0, 2.0); (391855.5, 3747526.9, 29.0, 29.0, 2.0);
(391854.2, 3747514.0, 29.0, 29.0, 2.0); (391855.2, 3747538.9, 29.0, 29.0, 2.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391855.5, 3747549.8, 29.0, 29.0, 2.0); (392423.8, 3747240.4, 29.0, 29.0, 2.0);
(391889.9, 3747651.9, 29.0, 29.0, 2.0); (391854.0, 3747577.0, 29.0, 29.0, 2.0);
(391854.2, 3747603.1, 29.0, 29.0, 2.0); (391855.0, 3747615.6, 29.0, 29.0, 2.0);
(391855.6, 3747626.4, 29.0, 29.0, 2.0); (391854.1, 3747455.5, 29.0, 29.0, 2.0);
(391853.4, 3747443.5, 29.0, 29.0, 2.0); (391888.7, 3747380.1, 29.0, 29.0, 2.0);
(391853.6, 3747430.3, 29.0, 29.0, 2.0); (391842.3, 3747485.1, 29.0, 29.0, 2.0);
(391705.1, 3747221.2, 29.0, 29.0, 2.0); (391890.3, 3747198.7, 29.0, 29.0, 2.0);
(391791.8, 3747248.3, 29.0, 29.0, 2.0);

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

```
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file:
KLGB_V9_ADJU\KLGB_v9.SFC Met
Version: 16216
Profile file:
KLGB_V9_ADJU\KLGB_v9.PFL
Surface format:
FREE

Profile format:
FREE

Surface station no.: 23129 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	-5.3	0.094	-9.000	-9.000	-999.	70.	14.3	0.10	2.68	1.00	1.13	322.	7.9	282.0	2.0
12	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	2.68	1.00	0.00	0.	7.9	281.4	2.0

```
 12 01 01   1 03   -2.5  0.068 -9.000 -9.000 -999.   43.     11.4  0.10   2.68   1.00    0.74
 79.    7.9  280.9    2.0
 12 01 01   1 04   -3.2  0.075 -9.000 -9.000 -999.   49.     11.7  0.10   2.68   1.00    0.86
 137.    7.9  280.9    2.0
 12 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.10   2.68   1.00    0.00
 0.    7.9  280.4    2.0
 12 01 01   1 06   -5.2  0.093 -9.000 -9.000 -999.   68.     14.0  0.10   2.68   1.00    1.11
 92.    7.9  279.9    2.0
 12 01 01   1 07   -2.3  0.066 -9.000 -9.000 -999.   41.     11.5  0.10   2.68   1.00    0.69
 67.    7.9  278.8    2.0
 12 01 01   1 08   -1.7  0.060 -9.000 -9.000 -999.   36.     11.4  0.10   2.68   0.54    0.65
 91.    7.9  279.9    2.0
 12 01 01   1 09   36.2 -9.000 -9.000 -9.000   37. -999. -99999.0  0.10   2.68   0.31    0.00
 0.    7.9  283.8    2.0
 12 01 01   1 10  108.4  0.139  0.707  0.009  119.  124.     -2.3  0.10   2.68   0.24    0.92
 319.    7.9  287.5    2.0
 12 01 01   1 11  160.5  0.114  1.137  0.005  334.   93.     -1.0  0.10   2.68   0.21    0.62
 23.    7.9  292.5    2.0
 12 01 01   1 12  186.7  0.125  1.473  0.005  623.  105.     -1.0  0.10   2.68   0.20    0.69
 18.    7.9  295.4    2.0
 12 01 01   1 13  186.8  0.130  1.761  0.005 1065.  112.     -1.1  0.10   2.68   0.20    0.74
 250.    7.9  297.5    2.0
 12 01 01   1 14  161.7  0.150  1.834  0.005 1387.  139.     -1.9  0.10   2.68   0.21    0.96
 347.    7.9  300.4    2.0
 12 01 01   1 15  105.5  0.243  1.633  0.005 1499.  288.    -12.4  0.10   2.68   0.24    2.11
 194.    7.9  295.9    2.0
 12 01 01   1 16   32.4  0.211  1.109  0.005 1530.  233.    -26.3  0.10   2.68   0.33    1.98
 186.    7.9  295.4    2.0
 12 01 01   1 17  -20.5  0.250 -9.000 -9.000 -999.  300.     69.2  0.10   2.68   0.60    2.81
 293.    7.9  291.4    2.0
 12 01 01   1 18  -25.4  0.257 -9.000 -9.000 -999.  313.     72.8  0.10   2.68   1.00    2.90
 301.    7.9  288.1    2.0
 12 01 01   1 19  -21.0  0.211 -9.000 -9.000 -999.  233.     49.0  0.10   2.68   1.00    2.40
 313.    7.9  286.4    2.0
 12 01 01   1 20  -25.7  0.258 -9.000 -9.000 -999.  315.     73.3  0.10   2.68   1.00    2.91
 302.    7.9  286.4    2.0
 12 01 01   1 21  -22.5  0.225 -9.000 -9.000 -999.  256.     55.7  0.10   2.68   1.00    2.55
 306.    7.9  285.4    2.0
 12 01 01   1 22   -9.3  0.126 -9.000 -9.000 -999.  111.     19.5  0.10   2.68   1.00    1.48
 284.    7.9  285.9    2.0
 12 01 01   1 23  -21.4  0.214 -9.000 -9.000 -999.  237.     50.3  0.10   2.68   1.00    2.43
 282.    7.9  285.4    2.0
 12 01 01   1 24  -30.1  0.300 -9.000 -9.000 -999.  394.     98.9  0.10   2.68   1.00    3.36
 300.    7.9  284.2    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  322.    1.13   282.1   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***       16:34:13

                     PAGE  42
 *** 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       ,
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VOL19 , VOL20 , VOL21 ,
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,
VOL27 , VOL28 , . . . ,

*** 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)
391891.24	3747480.41	52.37649	(14032409)	391892.01	3747456.00	46.95502	(14032409)
391965.04	3747447.61	59.53587	(12112610)	391925.38	3747447.61	59.81398	(12112610)
392089.38	3747454.66	78.76794	(12122516)	392112.83	3747454.85	87.31523	(12122516)
392033.31	3747443.03	61.89005	(13112916)	392142.39	3747442.46	68.10664	(12122516)
392336.71	3747437.69	75.56711	(12122516)	392429.96	3747448.18	43.64007	(12122516)
392412.42	3747555.73	27.87385	(12121416)	392343.77	3747480.03	85.94105	(12122516)
392217.30	3747461.24	113.49746	(12122516)	392161.48	3747408.94	42.42476	(13112916)
391879.25	3747513.22	51.03618	(14032109)	391891.65	3747546.98	60.61099	(14032109)
391891.84	3747573.68	61.02584	(14121611)	391884.40	3747601.90	53.97527	(13012415)
391891.08	3747641.76	61.19060	(12112916)	391889.35	3747663.46	56.22518	(12112916)
391883.45	3747699.92	42.08562	(12112916)	391881.92	3747730.82	33.73101	(12112916)
391884.40	3747754.47	29.10986	(12112916)	391885.36	3747780.40	25.15358	(12112916)
391883.83	3747768.01	26.94585	(12112916)	391493.56	3748488.26	2.06014	(13012316)
391947.12	3747875.71	12.28359	(12112915)	391983.08	3747875.94	12.78449	(12120516)
391885.46	3747791.74	23.65586	(12112916)	391889.32	3747804.03	22.08343	(12112916)
391887.50	3747815.86	20.72810	(12112916)	391874.76	3747826.10	19.83439	(12112916)
391892.74	3747852.04	16.66532	(12112916)	391892.51	3747880.49	13.82940	(12112916)
392032.89	3747873.67	13.91061	(12120516)	392140.29	3747873.36	16.18250	(13112016)
392233.52	3747864.86	15.64542	(13112016)	392523.19	3747518.42	15.74751	(14020616)
392655.00	3747574.84	9.66845	(12121416)	392733.47	3747870.77	4.33221	(16112216)
391927.56	3747940.84	9.67735	(12112915)	391927.83	3747987.42	8.45167	(14123016)
391940.95	3748045.52	7.63564	(14123016)	391926.76	3748083.27	6.85792	(14123016)
391928.37	3748118.62	6.43399	(14123016)	391927.56	3748149.14	6.07537	(14123016)
391892.49	3747904.69	11.60496	(12112916)	391891.96	3747917.81	10.50874	(12112916)
391891.15	3747931.74	9.60583	(12112915)	391885.26	3747942.98	9.18902	(12112915)
391893.29	3747955.03	8.98404	(12112915)	391893.83	3747978.59	8.38448	(12112915)
391893.03	3747994.39	8.00007	(12112915)	391885.80			

```
       3748035.62        7.07143  (12112915)
       391893.83   3748088.36        6.37355  (16122316)                391894.63
       3748143.78        5.73028  (16122316)
       391894.10   3748120.49        5.99018  (16122316)                391894.63
       3748155.30        5.60522  (16122316)
       391891.15   3748182.87        5.31203  (16122316)                391893.03
       3748195.99        5.18272  (16122316)
       391927.30   3748191.71        5.63613  (14123016)                391928.64
       3748236.15        5.23924  (14123016)
       391928.64   3748259.98        5.03616  (14123016)                391894.37
       3748207.50        5.08440  (14123016)
       391891.15   3748220.09        4.94781  (16122316)                391891.15
       3748231.06        4.86613  (14123016)
       391891.15   3748243.38        4.78133  (14123016)                391891.15
       3748255.70        4.69863  (14123016)
       391895.17   3748287.02        4.54161  (14123016)                391895.44
       3748311.12        4.39239  (14123016)
       391886.07   3748326.91        4.20605  (14123016)                391893.83
       3748337.09        4.22154  (14123016)
       391896.46   3748353.98        4.14511  (14123016)                391943.47
       3748329.02        4.54831  (14123016)
       391942.12   3748346.05        4.41752  (14123016)                391935.35
       3748361.91        4.29005  (14123016)
       391897.02   3748404.40        3.86814  (14123016)                391938.93
       3748376.12        4.19800  (14123016)
       391932.47   3748387.64        4.10964  (14123016)                391891.74
       3748427.33        3.71814  (14123016)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       16:34:13

                     PAGE  43
 *** 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 NOX      IN
                                        MICROGRAMS/M**3                          **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)  Y-COORD
      (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
       391929.07   3748405.45        3.98851  (14123016)                391929.40
       3748424.21        3.87299  (14123016)
       391929.73   3748439.17        3.78341  (14123016)                391928.74
       3748454.63        3.69206  (14123016)
       391897.00   3748453.15        3.61593  (14123016)                391866.08
       3747495.99       43.93012  (14121615)
       391854.46   3747480.49       37.42894  (14121615)                391855.46
       3747526.86       41.39296  (14121615)
       391854.21   3747513.99       40.90569  (14121615)                391855.21
       3747538.86       41.31563  (14121615)
       391855.46   3747549.85       41.72259  (13122516)                392423.79
```

3747240.43 10.00298 (15120216)
391889.87 3747651.95 59.48362 (12112916) 391853.95
3747577.01 41.00902 (14121611)
391854.20 3747603.13 41.72168 (13112216) 391854.95
3747615.63 40.53592 (13112216)
391855.57 3747626.38 38.94215 (13112216) 391854.14
3747455.54 31.34958 (14032409)
391853.42 3747443.48 29.65404 (14032409) 391888.71
3747380.11 24.45781 (12112610)
391853.60 3747430.34 27.50227 (14032409) 391842.26
3747485.07 35.18652 (14121615)
391705.13 3747221.17 7.05257 (14123012) 391890.27
3747198.72 8.30078 (12112610)
391791.77 3747248.29 9.06111
(12112610)

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF NOX IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	1ST HIGH VALUE IS	113.49746	ON 12122516: AT (392217.30, 3747461.24, 29.00, 29.00, 2.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** 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 1017 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 747 Calm Hours Identified

A Total of 270 Missing Hours Identified (0.62 Percent)

```
   ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


   ********   WARNING MESSAGES   ********
ME W186     626       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187     626       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

   ***********************************
   *** AERMOD Finishes Successfully ***
   ***********************************
```

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/5/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Cons PM10\14715 Cons
PM10.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID PM_10
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Cons PM10.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
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   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
   LOCATION PAREA1       AREAPOLY   391920.462  3747633.276       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL2         0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL3         0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL4         0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL5         0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL6         0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL7         0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL8         0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL9         0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL10        0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL11        0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL12        0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL13        0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL14        0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL15        0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL16        0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL17        0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL18        0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL19        0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL20        0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL21        0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL22        0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL23        0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL24        0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL25        0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL26        0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL27        0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL28        0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL29        0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL30        0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL31        0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL32        0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL33        0.0008924849     5.000    10.435     1.400
   SRCPARAM PAREA1       3.6659E-06     0.000        10     1.000
   AREAVERT PAREA1       391920.462 3747633.276 392130.134 3747633.458
   AREAVERT PAREA1       392198.264 3747632.547 392197.900 3747579.355
   AREAVERT PAREA1       392259.290 3747578.991 392259.472 3747568.425
   AREAVERT PAREA1       392279.328 3747568.425 392279.146 3747461.858
   AREAVERT PAREA1       392058.908 3747462.223 391920.097 3747464.044
   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
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   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
** WeekDays:
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL5         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL6         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL7         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL8         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL9         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL10        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL11        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL12        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL13        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL14        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL15        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** Saturday:
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL16        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL17        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL18        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL19        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
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   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL20        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL21        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL22        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL23        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL24        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL24        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL25        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL26        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL27        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL28        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL29        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL30        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL31        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL32        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL33        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT PAREA1       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP ALL
SO FINISHED
**
**********************************
** AERMOD Receptor Pathway
**********************************
**
**
RE STARTING
   INCLUDED "14715 Cons PM10.rou"
RE FINISHED
**
**********************************
** AERMOD Meteorology Pathway
**********************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**********************************
** AERMOD Output Pathway
**********************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "14715 CONS PM10.AD\24H1GALL.PLT" 31
```

```
   SUMMFILE "14715 Cons PM10.sum"
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

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** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/5/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Cons PM10\14715 Cons
PM10.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID PM_10
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Cons PM10.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
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   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
   LOCATION PAREA1       AREAPOLY   391920.462  3747633.276       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL2         0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL3         0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL4         0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL5         0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL6         0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL7         0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL8         0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL9         0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL10        0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL11        0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL12        0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL13        0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL14        0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL15        0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL16        0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL17        0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL18        0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL19        0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL20        0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL21        0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL22        0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL23        0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL24        0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL25        0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL26        0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL27        0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL28        0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL29        0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL30        0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL31        0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL32        0.0008924849     5.000    10.435     1.400
   SRCPARAM VOL33        0.0008924849     5.000    10.435     1.400
   SRCPARAM PAREA1       3.6659E-06     0.000        10     1.000
   AREAVERT PAREA1       391920.462 3747633.276 392130.134 3747633.458
   AREAVERT PAREA1       392198.264 3747632.547 392197.900 3747579.355
   AREAVERT PAREA1       392259.290 3747578.991 392259.472 3747568.425
   AREAVERT PAREA1       392279.328 3747568.425 392279.146 3747461.858
   AREAVERT PAREA1       392058.908 3747462.223 391920.097 3747464.044
   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:
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   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
** WeekDays:
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL5         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL6         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL7          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL8          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL9          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL10         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL11        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL12        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL13        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL14        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL15        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
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   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL16        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL17        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL18        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL19        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** Sunday:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL20        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL21        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL22        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL23        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
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   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL24        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL25        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL26        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL27        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL28        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL29        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL30        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL31        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL32        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL33        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT PAREA1       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
   INCLUDED "14715 Cons PM10.rou"
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
```

```
   PLOTFILE 24 ALL 1ST "14715 CONS PM10.AD\24H1GALL.PLT" 31
   SUMMFILE "14715 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     648       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     648       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 **********************************
 *** SETUP Finishes Successfully ***
 **********************************

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       16:54:44

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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    34 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   9818605.0 ;  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:     34 Source(s);       1 Source Group(s); and     105 Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
```

```
                and:     33 VOLUME source(s)
                and:      1 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) =    10.00 ;  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:   14715 Cons
 PM10.err
 **File for Summary of Results:   14715 Cons
 PM10.sum
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        16:54:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.
              URBAN  EMISSION RATE
  SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ
  SOURCE  SCALAR VARY
    ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - -

 VOL1             0   0.89248E-03  391943.2 3747610.9    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL2             0   0.89248E-03  391988.3 3747611.1    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL3             0   0.89248E-03  392033.2 3747611.4    29.0     5.00    10.44     1.40
 YES   HRDOW
```

VOL4	0	0.89248E-03	392078.1	3747611.4	29.0	5.00	10.44	1.40
YES HRDOW								
VOL5	0	0.89248E-03	392122.7	3747610.9	29.0	5.00	10.44	1.40
YES HRDOW								
VOL6	0	0.89248E-03	392167.6	3747610.4	29.0	5.00	10.44	1.40
YES HRDOW								
VOL7	0	0.89248E-03	392175.8	3747610.4	29.0	5.00	10.44	1.40
YES HRDOW								
VOL8	0	0.89248E-03	392175.0	3747565.7	29.0	5.00	10.44	1.40
YES HRDOW								
VOL9	0	0.89248E-03	392129.7	3747566.0	29.0	5.00	10.44	1.40
YES HRDOW								
VOL10	0	0.89248E-03	392084.7	3747566.6	29.0	5.00	10.44	1.40
YES HRDOW								
VOL11	0	0.89248E-03	392040.2	3747566.6	29.0	5.00	10.44	1.40
YES HRDOW								
VOL12	0	0.89248E-03	391995.7	3747566.3	29.0	5.00	10.44	1.40
YES HRDOW								
VOL13	0	0.89248E-03	391951.4	3747566.1	29.0	5.00	10.44	1.40
YES HRDOW								
VOL14	0	0.89248E-03	391942.7	3747566.1	29.0	5.00	10.44	1.40
YES HRDOW								
VOL15	0	0.89248E-03	391942.9	3747521.6	29.0	5.00	10.44	1.40
YES HRDOW								
VOL16	0	0.89248E-03	391987.4	3747522.1	29.0	5.00	10.44	1.40
YES HRDOW								
VOL17	0	0.89248E-03	392031.9	3747521.6	29.0	5.00	10.44	1.40
YES HRDOW								
VOL18	0	0.89248E-03	392076.4	3747521.4	29.0	5.00	10.44	1.40
YES HRDOW								
VOL19	0	0.89248E-03	392121.3	3747521.4	29.0	5.00	10.44	1.40
YES HRDOW								
VOL20	0	0.89248E-03	392165.8	3747521.6	29.0	5.00	10.44	1.40
YES HRDOW								
VOL21	0	0.89248E-03	392210.9	3747521.2	29.0	5.00	10.44	1.40
YES HRDOW								
VOL22	0	0.89248E-03	392219.6	3747557.0	29.0	5.00	10.44	1.40
YES HRDOW								
VOL23	0	0.89248E-03	392237.2	3747556.6	29.0	5.00	10.44	1.40
YES HRDOW								
VOL24	0	0.89248E-03	392256.9	3747546.6	29.0	5.00	10.44	1.40
YES HRDOW								
VOL25	0	0.89248E-03	392256.5	3747502.1	29.0	5.00	10.44	1.40
YES HRDOW								
VOL26	0	0.89248E-03	392256.3	3747484.5	29.0	5.00	10.44	1.40
YES HRDOW								
VOL27	0	0.89248E-03	392211.2	3747484.5	29.0	5.00	10.44	1.40
YES HRDOW								
VOL28	0	0.89248E-03	392167.1	3747484.7	29.0	5.00	10.44	1.40
YES HRDOW								
VOL29	0	0.89248E-03	392122.1	3747484.9	29.0	5.00	10.44	1.40
YES HRDOW								
VOL30	0	0.89248E-03	392076.7	3747485.0	29.0	5.00	10.44	1.40
YES HRDOW								
VOL31	0	0.89248E-03	392032.1	3747485.2	29.0	5.00	10.44	1.40
YES HRDOW								
VOL32	0	0.89248E-03	391987.1	3747485.9	29.0	5.00	10.44	1.40
YES HRDOW								
VOL33	0	0.89248E-03	391942.7	3747485.9	29.0	5.00	10.44	1.40
YES HRDOW								

*** AREAPOLY SOURCE DATA ***

SOURCE ID	NUMBER URBAN SOURCE PART. SCALAR VARY BY	EMISSION RATE (GRAMS/SEC /METER**2)	LOCATION OF AREA X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	NUMBER OF VERTS.	INIT. SZ
PAREA1	0	0.36659E-05	391920.5	3747633.3	29.0	0.00	10	1.00

YES HRDOW

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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 , PAREA1 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
	9818605.	VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 ,
		VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 ,

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            VOL17       , VOL18       , VOL19       , VOL20       , VOL21       , VOL22       ,
            VOL23       , VOL24       ,

            VOL25       , VOL26       , VOL27       , VOL28       , VOL29       , VOL30       ,
            VOL31       , VOL32       ,

            VOL33       , PAREA1      ,
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       16:54:44

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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
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       16:54:44

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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
```

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* 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

* 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

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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 = 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
```

* 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
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* 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
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00										

* 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

* 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
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       16:54:44

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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
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       16:54:44

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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
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       16:54:44

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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
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       16:54:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *
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 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
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/09/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        16:54:44

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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
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/09/23
 *** AERMET - VERSION  16216 ***
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* 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
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* 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
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6			

.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

*** 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

*** 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

* 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

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

* 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

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* 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

* 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
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* 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
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* 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

* 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					

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* 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

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* 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

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01

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  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .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) *

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 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
```


*** 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

* 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

*** 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
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1 *** 09/05/23
*** AERMET - VERSION 16216 ***
*** *** 16:54:44

*** 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
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	

* 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

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = PAREA1 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00												

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391891.2, 3747480.4, 29.0, 29.0, 2.0); (391892.0, 3747456.0, 29.0, 29.0, 2.0);
(391965.0, 3747447.6, 29.0, 29.0, 2.0); (391925.4, 3747447.6, 29.0, 29.0, 2.0);
(392089.4, 3747454.7, 29.0, 29.0, 2.0); (392112.8, 3747454.8, 29.0, 29.0, 2.0);
(392033.3, 3747443.0, 29.0, 29.0, 2.0); (392142.4, 3747442.5, 29.0, 29.0, 2.0);
(392336.7, 3747437.7, 29.0, 29.0, 2.0); (392430.0, 3747448.2, 29.0, 29.0, 2.0);
(392412.4, 3747555.7, 29.0, 29.0, 2.0); (392343.8, 3747480.0, 29.0, 29.0, 2.0);
(392217.3, 3747461.2, 29.0, 29.0, 2.0); (392161.5, 3747408.9, 29.0, 29.0, 2.0);
(391879.2, 3747513.2, 29.0, 29.0, 2.0); (391891.6, 3747547.0, 29.0, 29.0, 2.0);
(391891.8, 3747573.7, 29.0, 29.0, 2.0); (391884.4, 3747601.9, 29.0, 29.0, 2.0);
(391891.1, 3747641.8, 29.0, 29.0, 2.0); (391889.3, 3747663.5, 29.0, 29.0, 2.0);
(391883.5, 3747699.9, 29.0, 29.0, 2.0); (391881.9, 3747730.8, 29.0, 29.0, 2.0);
(391884.4, 3747754.5, 29.0, 29.0, 2.0); (391885.4, 3747780.4, 29.0, 29.0, 2.0);
(391883.8, 3747768.0, 29.0, 29.0, 2.0); (391493.6, 3748488.3, 29.0, 29.0, 2.0);
(391947.1, 3747875.7, 29.0, 29.0, 2.0); (391983.1, 3747875.9, 29.0, 29.0, 2.0);
(391885.5, 3747791.7, 29.0, 29.0, 2.0); (391889.3, 3747804.0, 29.0, 29.0, 2.0);
(391887.5, 3747815.9, 29.0, 29.0, 2.0); (391874.8, 3747826.1, 29.0, 29.0, 2.0);
(391892.7, 3747852.0, 29.0, 29.0, 2.0); (391892.5, 3747880.5, 29.0, 29.0, 2.0);
(392032.9, 3747873.7, 29.0, 29.0, 2.0); (392140.3, 3747873.4, 29.0, 29.0, 2.0);
(392233.5, 3747864.9, 29.0, 29.0, 2.0); (392523.2, 3747518.4, 28.3, 28.3, 2.0);
(392655.0, 3747574.8, 28.0, 28.0, 2.0); (392733.5, 3747870.8, 27.6, 27.6, 2.0);
(391927.6, 3747940.8, 29.0, 29.0, 2.0); (391927.8, 3747987.4, 29.0, 29.0, 2.0);
(391941.0, 3748045.5, 29.0, 29.0, 2.0); (391926.8,

3748083.3, 29.0, 29.0, 2.0);
(391928.4, 3748118.6, 29.0, 29.0, 2.0); (391927.6,
3748149.1, 29.0, 29.0, 2.0);
(391892.5, 3747904.7, 29.0, 29.0, 2.0); (391892.0,
3747917.8, 29.0, 29.0, 2.0);
(391891.1, 3747931.7, 29.0, 29.0, 2.0); (391885.3,
3747943.0, 29.0, 29.0, 2.0);
(391893.3, 3747955.0, 29.0, 29.0, 2.0); (391893.8,
3747978.6, 29.0, 29.0, 2.0);
(391893.0, 3747994.4, 29.0, 29.0, 2.0); (391885.8,
3748035.6, 29.0, 29.0, 2.0);
(391893.8, 3748088.4, 29.0, 29.0, 2.0); (391894.6,
3748143.8, 29.0, 29.0, 2.0);
(391894.1, 3748120.5, 29.0, 29.0, 2.0); (391894.6,
3748155.3, 29.0, 29.0, 2.0);
(391891.1, 3748182.9, 29.0, 29.0, 2.0); (391893.0,
3748196.0, 29.0, 29.0, 2.0);
(391927.3, 3748191.7, 29.0, 29.0, 2.0); (391928.6,
3748236.1, 29.0, 29.0, 2.0);
(391928.6, 3748260.0, 29.0, 29.0, 2.0); (391894.4,
3748207.5, 29.0, 29.0, 2.0);
(391891.1, 3748220.1, 29.0, 29.0, 2.0); (391891.1,
3748231.1, 29.0, 29.0, 2.0);
(391891.1, 3748243.4, 29.0, 29.0, 2.0); (391891.1,
3748255.7, 29.0, 29.0, 2.0);
(391895.2, 3748287.0, 29.0, 29.0, 2.0); (391895.4,
3748311.1, 29.0, 29.0, 2.0);
(391886.1, 3748326.9, 29.0, 29.0, 2.0); (391893.8,
3748337.1, 29.0, 29.0, 2.0);
(391896.5, 3748354.0, 29.0, 29.0, 2.0); (391943.5,
3748329.0, 29.0, 29.0, 2.0);
(391942.1, 3748346.0, 29.0, 29.0, 2.0); (391935.3,
3748361.9, 29.0, 29.0, 2.0);
(391897.0, 3748404.4, 29.0, 29.0, 2.0); (391938.9,
3748376.1, 29.0, 29.0, 2.0);
(391932.5, 3748387.6, 29.0, 29.0, 2.0); (391891.7,
3748427.3, 29.0, 29.0, 2.0);
(391929.1, 3748405.4, 29.0, 29.0, 2.0); (391929.4,
3748424.2, 29.0, 29.0, 2.0);
(391929.7, 3748439.2, 29.0, 29.0, 2.0); (391928.7,
3748454.6, 29.0, 29.0, 2.0);
(391897.0, 3748453.1, 29.0, 29.0, 2.0); (391866.1,
3747496.0, 29.0, 29.0, 2.0);
(391854.5, 3747480.5, 29.0, 29.0, 2.0); (391855.5,
3747526.9, 29.0, 29.0, 2.0);
(391854.2, 3747514.0, 29.0, 29.0, 2.0); (391855.2,
3747538.9, 29.0, 29.0, 2.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391855.5, 3747549.8, 29.0, 29.0, 2.0); (392423.8,
3747240.4, 29.0, 29.0, 2.0);
(391889.9, 3747651.9, 29.0, 29.0, 2.0); (391854.0,
3747577.0, 29.0, 29.0, 2.0);
(391854.2, 3747603.1, 29.0, 29.0, 2.0); (391855.0,
3747615.6, 29.0, 29.0, 2.0);
(391855.6, 3747626.4, 29.0, 29.0, 2.0); (391854.1,

```
    3747455.5,      29.0,      29.0,       2.0);
    ( 391853.4, 3747443.5,      29.0,      29.0,       2.0);         ( 391888.7,
    3747380.1,      29.0,      29.0,       2.0);
    ( 391853.6, 3747430.3,      29.0,      29.0,       2.0);         ( 391842.3,
    3747485.1,      29.0,      29.0,       2.0);
    ( 391705.1, 3747221.2,      29.0,      29.0,       2.0);         ( 391890.3,
    3747198.7,      29.0,      29.0,       2.0);
    ( 391791.8, 3747248.3,      29.0,      29.0,
    2.0);
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       16:54:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                        *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                                    (1=YES; 0=NO)

           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1

               NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS
               INCLUDED IN THE DATA FILE.


                                    *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES
                                    ***
                                                        (METERS/SEC)

                                                 1.54,   3.09,   5.14,   8.23,  10.80,
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       16:54:44

                     PAGE  43
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                      *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

   Surface file:
   KLGB_V9_ADJU\KLGB_v9.SFC                                                    Met
   Version:  16216
   Profile file:
   KLGB_V9_ADJU\KLGB_v9.PFL
   Surface format:
   FREE

   Profile format:
   FREE
```

Surface station no.: 23129 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	-5.3	0.094	-9.000	-9.000	-999.	70.	14.3	0.10	2.68	1.00	1.13	322.	7.9	282.0	2.0
12	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	2.68	1.00	0.00	0.	7.9	281.4	2.0
12	01	01	1	03	-2.5	0.068	-9.000	-9.000	-999.	43.	11.4	0.10	2.68	1.00	0.74	79.	7.9	280.9	2.0
12	01	01	1	04	-3.2	0.075	-9.000	-9.000	-999.	49.	11.7	0.10	2.68	1.00	0.86	137.	7.9	280.9	2.0
12	01	01	1	05	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	2.68	1.00	0.00	0.	7.9	280.4	2.0
12	01	01	1	06	-5.2	0.093	-9.000	-9.000	-999.	68.	14.0	0.10	2.68	1.00	1.11	92.	7.9	279.9	2.0
12	01	01	1	07	-2.3	0.066	-9.000	-9.000	-999.	41.	11.5	0.10	2.68	1.00	0.69	67.	7.9	278.8	2.0
12	01	01	1	08	-1.7	0.060	-9.000	-9.000	-999.	36.	11.4	0.10	2.68	0.54	0.65	91.	7.9	279.9	2.0
12	01	01	1	09	36.2	-9.000	-9.000	-9.000	37.	-999.	-99999.0	0.10	2.68	0.31	0.00	0.	7.9	283.8	2.0
12	01	01	1	10	108.4	0.139	0.707	0.009	119.	124.	-2.3	0.10	2.68	0.24	0.92	319.	7.9	287.5	2.0
12	01	01	1	11	160.5	0.114	1.137	0.005	334.	93.	-1.0	0.10	2.68	0.21	0.62	23.	7.9	292.5	2.0
12	01	01	1	12	186.7	0.125	1.473	0.005	623.	105.	-1.0	0.10	2.68	0.20	0.69	18.	7.9	295.4	2.0
12	01	01	1	13	186.8	0.130	1.761	0.005	1065.	112.	-1.1	0.10	2.68	0.20	0.74	250.	7.9	297.5	2.0
12	01	01	1	14	161.7	0.150	1.834	0.005	1387.	139.	-1.9	0.10	2.68	0.21	0.96	347.	7.9	300.4	2.0
12	01	01	1	15	105.5	0.243	1.633	0.005	1499.	288.	-12.4	0.10	2.68	0.24	2.11	194.	7.9	295.9	2.0
12	01	01	1	16	32.4	0.211	1.109	0.005	1530.	233.	-26.3	0.10	2.68	0.33	1.98	186.	7.9	295.4	2.0
12	01	01	1	17	-20.5	0.250	-9.000	-9.000	-999.	300.	69.2	0.10	2.68	0.60	2.81	293.	7.9	291.4	2.0
12	01	01	1	18	-25.4	0.257	-9.000	-9.000	-999.	313.	72.8	0.10	2.68	1.00	2.90	301.	7.9	288.1	2.0
12	01	01	1	19	-21.0	0.211	-9.000	-9.000	-999.	233.	49.0	0.10	2.68	1.00	2.40	313.	7.9	286.4	2.0
12	01	01	1	20	-25.7	0.258	-9.000	-9.000	-999.	315.	73.3	0.10	2.68	1.00	2.91	302.	7.9	286.4	2.0
12	01	01	1	21	-22.5	0.225	-9.000	-9.000	-999.	256.	55.7	0.10	2.68	1.00	2.55	306.	7.9	285.4	2.0
12	01	01	1	22	-9.3	0.126	-9.000	-9.000	-999.	111.	19.5	0.10	2.68	1.00	1.48	284.	7.9	285.9	2.0
12	01	01	1	23	-21.4	0.214	-9.000	-9.000	-999.	237.	50.3	0.10	2.68	1.00	2.43	282.	7.9	285.4	2.0
12	01	01	1	24	-30.1	0.300	-9.000	-9.000	-999.	394.	98.9	0.10	2.68	1.00	3.36	300.	7.9	284.2	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	322.	1.13	282.1	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

*** 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 , 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_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391891.24	3747480.41	4.82856	(14121624)	391892.01	3747456.00	3.49462c	(15010124)
391965.04	3747447.61	5.98745	(13112924)	391925.38	3747447.61	5.08125c	(16122224)
392089.38	3747454.66	10.92159c	(12122524)	392112.83	3747454.85	11.17863c	(12122524)
392033.31	3747443.03	6.85072c	(12122524)	392142.39	3747442.46	7.81423c	(12122524)
392336.71	3747437.69	3.32043c	(12120424)	392429.96	3747448.18	1.46614	(16021824)
392412.42	3747555.73	1.74151c	(12121824)	392343.77	3747480.03	3.05182	(14013124)
392217.30	3747461.24	13.68485c	(12122524)	392161.48	3747408.94	3.91578c	(12122524)
391879.25	3747513.22	5.14609	(14121624)	391891.65	3747546.98	6.39299	(14121624)
391891.84	3747573.68	6.31405	(14121624)	391884.40	3747601.90	5.12214	(14121624)
391891.08	3747641.76	4.79167	(12112924)	391889.35	3747663.46	4.02175	(12112924)
391883.45	3747699.92	2.83139	(12112924)	391881.92	3747730.82	2.25442	(12112924)
391884.40	3747754.47	1.95550	(12112924)	391885.36	3747780.40	1.68420	(12112924)
391883.83	3747768.01	1.80072	(12112924)	391493.56	3748488.26	0.11348	(12112924)
391947.12	3747875.71	1.02103	(16122324)	391983.08	3747875.94	1.06689c	(13122024)
391885.46	3747791.74	1.58310	(12112924)	391889.32	3747804.03	1.49055	(12112924)
391887.50	3747815.86	1.39896	(12112924)	391874.76	3747826.10	1.31049	(12112924)
391892.74	3747852.04	1.16443	(12112924)	391892.51	3747880.49	1.00279	(12112924)
392032.89	3747873.67	1.11127c	(13122024)	392140.29	3747873.36	1.36402c	(13092024)
392233.52	3747864.86	1.24148c	(13092024)	392523.19	3747518.42	1.09960c	(12121824)

```
      392655.00   3747574.84        0.61407  (12110924)                392733.47
      3747870.77        0.22683  (12022724)
      391927.56   3747940.84        0.79770  (16122324)                391927.83
      3747987.42        0.67815  (16122324)
      391940.95   3748045.52        0.55157c (13122024)                391926.76
      3748083.27        0.48748  (16122324)
      391928.37   3748118.62        0.44139c (13122024)                391927.56
      3748149.14        0.40745c (13122024)
      391892.49   3747904.69        0.90411  (16122324)                391891.96
      3747917.81        0.86176  (16122324)
      391891.15   3747931.74        0.82044  (16122324)                391885.26
      3747942.98        0.78689  (16122324)
      391893.29   3747955.03        0.75996  (16122324)                391893.83
      3747978.59        0.70503  (16122324)
      391893.03   3747994.39        0.67126  (16122324)                391885.80
      3748035.62        0.59353  (16122324)
      391893.83   3748088.36        0.50459  (16122324)                391894.63
      3748143.78        0.42337  (16122324)
      391894.10   3748120.49        0.45638  (16122324)                391894.63
      3748155.30        0.40790  (16122324)
      391891.15   3748182.87        0.37568  (16122324)                391893.03
      3748195.99        0.35824  (16122324)
      391927.30   3748191.71        0.36574c (13122024)                391928.64
      3748236.15        0.32798c (13122024)
      391928.64   3748259.98        0.30940c (13122024)                391894.37
      3748207.50        0.34359  (16122324)
      391891.15   3748220.09        0.33233  (16122324)                391891.15
      3748231.06        0.32040  (16122324)
      391891.15   3748243.38        0.30746  (16122324)                391891.15
      3748255.70        0.29657c (13122024)
      391895.17   3748287.02        0.27902c (13122024)                391895.44
      3748311.12        0.26487c (13122024)
      391886.07   3748326.91        0.25232c (13122024)                391893.83
      3748337.09        0.24995c (13122024)
      391896.46   3748353.98        0.24202c (13122024)                391943.47
      3748329.02        0.26353c (13122024)
      391942.12   3748346.05        0.25315c (13122024)                391935.35
      3748361.91        0.24396c (13122024)
      391897.02   3748404.40        0.21817c (13122024)                391938.93
      3748376.12        0.23626c (13122024)
      391932.47   3748387.64        0.23021c (13122024)                391891.74
      3748427.33        0.20733c (13122024)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       16:54:44

                    PAGE  45
 *** 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        , 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_10    IN
                                      MICROGRAMS/M**3                          **
```

```
     X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)  Y-COORD
     (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       391929.07   3748405.45        0.22132c (13122024)               391929.40
       3748424.21        0.21259c (13122024)
       391929.73   3748439.17        0.20596c (13122024)               391928.74
       3748454.63        0.19942c (13122024)
       391897.00   3748453.15        0.19796c (13122024)               391866.08
       3747495.99        3.92933  (14121624)
       391854.46   3747480.49        2.87046  (14121624)               391855.46
       3747526.86        4.05987  (14121624)
       391854.21   3747513.99        3.83238  (14121624)               391855.21
       3747538.86        4.14383  (14121624)
       391855.46   3747549.85        4.19427  (14121624)               392423.79
       3747240.43        0.67786  (14120124)
       391889.87   3747651.95        4.40753  (12112924)               391853.95
       3747577.01        4.04105  (14121624)
       391854.20   3747603.13        3.62588  (14121624)               391854.95
       3747615.63        3.28212  (14121624)
       391855.57   3747626.38        2.88730  (14121624)               391854.14
       3747455.54        2.36168  (14120224)
       391853.42   3747443.48        2.11191  (14120224)               391888.71
       3747380.11        1.41121c (16122224)
       391853.60   3747430.34        1.85827c (15010124)               391842.26
       3747485.07        2.67122  (14121624)
       391705.13   3747221.17        0.44746  (16121924)               391890.27
       3747198.72        0.44239  (15011524)
       391791.77   3747248.29        0.48348
       (16121924)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***       16:54:44

                    PAGE  46
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                        *** THE SUMMARY OF HIGHEST 24-HR RESULTS ***


                                    ** CONC OF PM_10    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      13.68485c ON 12122524: AT (  392217.30,  3747461.24,
29.00,    29.00,    2.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***       16:54:44

                    PAGE  47
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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   1017 Informational Message(s)

A Total of   43848 Hours Were Processed

A Total of   747 Calm Hours Identified

A Total of   270 Missing Hours Identified (0.62 Percent)

   ******** FATAL ERROR MESSAGES ********
              *** NONE ***

   ********   WARNING MESSAGES   ********
ME W186   648   MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used   0.50
ME W187   648   MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

   ****
   *** AERMOD Finishes Successfully ***
   ****

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/5/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Cons PM25\14715 Cons
PM25.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID PM_2.5
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Cons PM25.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
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   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
   LOCATION PAREA1       AREAPOLY   391920.462  3747633.276       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL2         0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL3         0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL4         0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL5         0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL6         0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL7         0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL8         0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL9         0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL10        0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL11        0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL12        0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL13        0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL14        0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL15        0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL16        0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL17        0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL18        0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL19        0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL20        0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL21        0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL22        0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL23        0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL24        0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL25        0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL26        0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL27        0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL28        0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL29        0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL30        0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL31        0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL32        0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL33        0.0007779414     5.000    10.435     1.400
   SRCPARAM PAREA1       5.5543E-07     0.000        10     1.000
   AREAVERT PAREA1       391920.462 3747633.276 392130.134 3747633.458
   AREAVERT PAREA1       392198.264 3747632.547 392197.900 3747579.355
   AREAVERT PAREA1       392259.290 3747578.991 392259.472 3747568.425
   AREAVERT PAREA1       392279.328 3747568.425 392279.146 3747461.858
   AREAVERT PAREA1       392058.908 3747462.223 391920.097 3747464.044
   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
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   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
** WeekDays:
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL5         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL6         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL7         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL8         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL9         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL10        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL11        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL12        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL13        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL14        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL15        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** Saturday:
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL16        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL17        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL18        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL19        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
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   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL20        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL21        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL22        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL23        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL24        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL24        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL25        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL26        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL27        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL28        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL29        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL30        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL31        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL32        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL33        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT PAREA1       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP ALL
SO FINISHED
**
**********************************
** AERMOD Receptor Pathway
**********************************
**
**
RE STARTING
   INCLUDED "14715 Cons PM25.rou"
RE FINISHED
**
**********************************
** AERMOD Meteorology Pathway
**********************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**********************************
** AERMOD Output Pathway
**********************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "14715 CONS PM25.AD\24H1GALL.PLT" 31
```

```
   SUMMFILE "14715 Cons PM25.sum"
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

```
** Lakes Environmental AERMOD MPI
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/5/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Cons PM25\14715 Cons
PM25.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID PM_2.5
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Cons PM25.err"
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
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   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
   LOCATION PAREA1       AREAPOLY   391920.462  3747633.276       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL2         0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL3         0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL4         0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL5         0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL6         0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL7         0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL8         0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL9         0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL10        0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL11        0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL12        0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL13        0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL14        0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL15        0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL16        0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL17        0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL18        0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL19        0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL20        0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL21        0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL22        0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL23        0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL24        0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL25        0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL26        0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL27        0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL28        0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL29        0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL30        0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL31        0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL32        0.0007779414     5.000    10.435     1.400
   SRCPARAM VOL33        0.0007779414     5.000    10.435     1.400
   SRCPARAM PAREA1       5.5543E-07     0.000        10     1.000
   AREAVERT PAREA1       391920.462 3747633.276 392130.134 3747633.458
   AREAVERT PAREA1       392198.264 3747632.547 392197.900 3747579.355
   AREAVERT PAREA1       392259.290 3747578.991 392259.472 3747568.425
   AREAVERT PAREA1       392279.328 3747568.425 392279.146 3747461.858
   AREAVERT PAREA1       392058.908 3747462.223 391920.097 3747464.044
   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:
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   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
** WeekDays:
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL5         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL6         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL7          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL8          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL9          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL10         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL11        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL12        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL13        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL14        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL15        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
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   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL16        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL17        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL18        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL19        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

```
** Sunday:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL20        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL21        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL22        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL23        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
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   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL24        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL25        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL26        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL27        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL28        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL29        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL30        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL31        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL32        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL33        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT PAREA1       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Cons PM25.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
```

```
   PLOTFILE 24 ALL 1ST "14715 CONS PM25.AD\24H1GALL.PLT" 31
   SUMMFILE "14715 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     648       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     648       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 **********************************
 *** SETUP Finishes Successfully ***
 **********************************

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       16:52:29

                      PAGE   1
 *** 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    34 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   9818605.0 ;  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:     34 Source(s);       1 Source Group(s); and     105 Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
```

```
                and:     33 VOLUME source(s)
                and:      1 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) =    10.00 ;  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:   14715 Cons
 PM25.err
 **File for Summary of Results:   14715 Cons
 PM25.sum
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        16:52:29

                     PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.
              URBAN  EMISSION RATE
  SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ
  SOURCE  SCALAR VARY
    ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - -

 VOL1             0   0.77794E-03  391943.2 3747610.9    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL2             0   0.77794E-03  391988.3 3747611.1    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL3             0   0.77794E-03  392033.2 3747611.4    29.0     5.00    10.44     1.40
 YES   HRDOW
```

```
 VOL4            0   0.77794E-03  392078.1 3747611.4    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL5            0   0.77794E-03  392122.7 3747610.9    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL6            0   0.77794E-03  392167.6 3747610.4    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL7            0   0.77794E-03  392175.8 3747610.4    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL8            0   0.77794E-03  392175.0 3747565.7    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL9            0   0.77794E-03  392129.7 3747566.0    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL10           0   0.77794E-03  392084.7 3747566.6    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL11           0   0.77794E-03  392040.2 3747566.6    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL12           0   0.77794E-03  391995.7 3747566.3    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL13           0   0.77794E-03  391951.4 3747566.1    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL14           0   0.77794E-03  391942.7 3747566.1    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL15           0   0.77794E-03  391942.9 3747521.6    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL16           0   0.77794E-03  391987.4 3747522.1    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL17           0   0.77794E-03  392031.9 3747521.6    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL18           0   0.77794E-03  392076.4 3747521.4    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL19           0   0.77794E-03  392121.3 3747521.4    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL20           0   0.77794E-03  392165.8 3747521.6    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL21           0   0.77794E-03  392210.9 3747521.2    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL22           0   0.77794E-03  392219.6 3747557.0    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL23           0   0.77794E-03  392237.2 3747556.6    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL24           0   0.77794E-03  392256.9 3747546.6    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL25           0   0.77794E-03  392256.5 3747502.1    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL26           0   0.77794E-03  392256.3 3747484.5    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL27           0   0.77794E-03  392211.2 3747484.5    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL28           0   0.77794E-03  392167.1 3747484.7    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL29           0   0.77794E-03  392122.1 3747484.9    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL30           0   0.77794E-03  392076.7 3747485.0    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL31           0   0.77794E-03  392032.1 3747485.2    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL32           0   0.77794E-03  391987.1 3747485.9    29.0     5.00    10.44     1.40
 YES   HRDOW
 VOL33           0   0.77794E-03  391942.7 3747485.9    29.0     5.00    10.44     1.40
 YES   HRDOW
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       16:52:29

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*** AREAPOLY SOURCE DATA ***

SOURCE ID	NUMBER URBAN SOURCE PART. SCALAR VARY BY	EMISSION RATE (GRAMS/SEC /METER**2)	LOCATION OF AREA X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	NUMBER OF VERTS.	INIT. SZ (METERS)
PAREA1	0 YES	0.55543E-06	391920.5	3747633.3	29.0	0.00	10	1.00

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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 , PAREA1 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
	9818605.	VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 ,
		VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 ,

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            VOL17       , VOL18       , VOL19       , VOL20       , VOL21       , VOL22       ,
            VOL23       , VOL24       ,

            VOL25       , VOL26       , VOL27       , VOL28       , VOL29       , VOL30       ,
            VOL31       , VOL32       ,

            VOL33       , PAREA1      ,
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       16:52:29

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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
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       16:52:29

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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
```

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* 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

* 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

*** 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

*** 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
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

*** 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
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00										

* 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

* 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
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        16:52:29

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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
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        16:52:29

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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
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       16:52:29

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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
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       16:52:29

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *
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```
 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
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       16:52:29

                      PAGE  19
 *** 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
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
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* 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

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* 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

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6			

* 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
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* 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
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													

* 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

* 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

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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
```

```
                    * 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
```

* 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

* 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

* 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
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* 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
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22													

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* 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

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* 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

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```


*** 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
```


*** 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

*** 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

*** 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
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1 *** 09/05/23
*** AERMET - VERSION 16216 ***
*** *** 16:52:29

*** 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
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	

* 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

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = PAREA1 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00												

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391891.2, 3747480.4, 29.0, 29.0, 2.0); (391892.0, 3747456.0, 29.0, 29.0, 2.0);
(391965.0, 3747447.6, 29.0, 29.0, 2.0); (391925.4, 3747447.6, 29.0, 29.0, 2.0);
(392089.4, 3747454.7, 29.0, 29.0, 2.0); (392112.8, 3747454.8, 29.0, 29.0, 2.0);
(392033.3, 3747443.0, 29.0, 29.0, 2.0); (392142.4, 3747442.5, 29.0, 29.0, 2.0);
(392336.7, 3747437.7, 29.0, 29.0, 2.0); (392430.0, 3747448.2, 29.0, 29.0, 2.0);
(392412.4, 3747555.7, 29.0, 29.0, 2.0); (392343.8, 3747480.0, 29.0, 29.0, 2.0);
(392217.3, 3747461.2, 29.0, 29.0, 2.0); (392161.5, 3747408.9, 29.0, 29.0, 2.0);
(391879.2, 3747513.2, 29.0, 29.0, 2.0); (391891.6, 3747547.0, 29.0, 29.0, 2.0);
(391891.8, 3747573.7, 29.0, 29.0, 2.0); (391884.4, 3747601.9, 29.0, 29.0, 2.0);
(391891.1, 3747641.8, 29.0, 29.0, 2.0); (391889.3, 3747663.5, 29.0, 29.0, 2.0);
(391883.5, 3747699.9, 29.0, 29.0, 2.0); (391881.9, 3747730.8, 29.0, 29.0, 2.0);
(391884.4, 3747754.5, 29.0, 29.0, 2.0); (391885.4, 3747780.4, 29.0, 29.0, 2.0);
(391883.8, 3747768.0, 29.0, 29.0, 2.0); (391493.6, 3748488.3, 29.0, 29.0, 2.0);
(391947.1, 3747875.7, 29.0, 29.0, 2.0); (391983.1, 3747875.9, 29.0, 29.0, 2.0);
(391885.5, 3747791.7, 29.0, 29.0, 2.0); (391889.3, 3747804.0, 29.0, 29.0, 2.0);
(391887.5, 3747815.9, 29.0, 29.0, 2.0); (391874.8, 3747826.1, 29.0, 29.0, 2.0);
(391892.7, 3747852.0, 29.0, 29.0, 2.0); (391892.5, 3747880.5, 29.0, 29.0, 2.0);
(392032.9, 3747873.7, 29.0, 29.0, 2.0); (392140.3, 3747873.4, 29.0, 29.0, 2.0);
(392233.5, 3747864.9, 29.0, 29.0, 2.0); (392523.2, 3747518.4, 28.3, 28.3, 2.0);
(392655.0, 3747574.8, 28.0, 28.0, 2.0); (392733.5, 3747870.8, 27.6, 27.6, 2.0);
(391927.6, 3747940.8, 29.0, 29.0, 2.0); (391927.8, 3747987.4, 29.0, 29.0, 2.0);
(391941.0, 3748045.5, 29.0, 29.0, 2.0); (391926.8,

3748083.3, 29.0, 29.0, 2.0);
(391928.4, 3748118.6, 29.0, 29.0, 2.0); (391927.6,
3748149.1, 29.0, 29.0, 2.0);
(391892.5, 3747904.7, 29.0, 29.0, 2.0); (391892.0,
3747917.8, 29.0, 29.0, 2.0);
(391891.1, 3747931.7, 29.0, 29.0, 2.0); (391885.3,
3747943.0, 29.0, 29.0, 2.0);
(391893.3, 3747955.0, 29.0, 29.0, 2.0); (391893.8,
3747978.6, 29.0, 29.0, 2.0);
(391893.0, 3747994.4, 29.0, 29.0, 2.0); (391885.8,
3748035.6, 29.0, 29.0, 2.0);
(391893.8, 3748088.4, 29.0, 29.0, 2.0); (391894.6,
3748143.8, 29.0, 29.0, 2.0);
(391894.1, 3748120.5, 29.0, 29.0, 2.0); (391894.6,
3748155.3, 29.0, 29.0, 2.0);
(391891.1, 3748182.9, 29.0, 29.0, 2.0); (391893.0,
3748196.0, 29.0, 29.0, 2.0);
(391927.3, 3748191.7, 29.0, 29.0, 2.0); (391928.6,
3748236.1, 29.0, 29.0, 2.0);
(391928.6, 3748260.0, 29.0, 29.0, 2.0); (391894.4,
3748207.5, 29.0, 29.0, 2.0);
(391891.1, 3748220.1, 29.0, 29.0, 2.0); (391891.1,
3748231.1, 29.0, 29.0, 2.0);
(391891.1, 3748243.4, 29.0, 29.0, 2.0); (391891.1,
3748255.7, 29.0, 29.0, 2.0);
(391895.2, 3748287.0, 29.0, 29.0, 2.0); (391895.4,
3748311.1, 29.0, 29.0, 2.0);
(391886.1, 3748326.9, 29.0, 29.0, 2.0); (391893.8,
3748337.1, 29.0, 29.0, 2.0);
(391896.5, 3748354.0, 29.0, 29.0, 2.0); (391943.5,
3748329.0, 29.0, 29.0, 2.0);
(391942.1, 3748346.0, 29.0, 29.0, 2.0); (391935.3,
3748361.9, 29.0, 29.0, 2.0);
(391897.0, 3748404.4, 29.0, 29.0, 2.0); (391938.9,
3748376.1, 29.0, 29.0, 2.0);
(391932.5, 3748387.6, 29.0, 29.0, 2.0); (391891.7,
3748427.3, 29.0, 29.0, 2.0);
(391929.1, 3748405.4, 29.0, 29.0, 2.0); (391929.4,
3748424.2, 29.0, 29.0, 2.0);
(391929.7, 3748439.2, 29.0, 29.0, 2.0); (391928.7,
3748454.6, 29.0, 29.0, 2.0);
(391897.0, 3748453.1, 29.0, 29.0, 2.0); (391866.1,
3747496.0, 29.0, 29.0, 2.0);
(391854.5, 3747480.5, 29.0, 29.0, 2.0); (391855.5,
3747526.9, 29.0, 29.0, 2.0);
(391854.2, 3747514.0, 29.0, 29.0, 2.0); (391855.2,
3747538.9, 29.0, 29.0, 2.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391855.5, 3747549.8, 29.0, 29.0, 2.0); (392423.8,
3747240.4, 29.0, 29.0, 2.0);
(391889.9, 3747651.9, 29.0, 29.0, 2.0); (391854.0,
3747577.0, 29.0, 29.0, 2.0);
(391854.2, 3747603.1, 29.0, 29.0, 2.0); (391855.0,
3747615.6, 29.0, 29.0, 2.0);
(391855.6, 3747626.4, 29.0, 29.0, 2.0); (391854.1,

```
    3747455.5,      29.0,      29.0,       2.0);
    ( 391853.4, 3747443.5,      29.0,      29.0,       2.0);        ( 391888.7,
    3747380.1,      29.0,      29.0,       2.0);
    ( 391853.6, 3747430.3,      29.0,      29.0,       2.0);        ( 391842.3,
    3747485.1,      29.0,      29.0,       2.0);
    ( 391705.1, 3747221.2,      29.0,      29.0,       2.0);        ( 391890.3,
    3747198.7,      29.0,      29.0,       2.0);
    ( 391791.8, 3747248.3,      29.0,      29.0,
    2.0);
```


*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

```
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file:
KLGB_V9_ADJU\KLGB_v9.SFC Met
Version: 16216
Profile file:
KLGB_V9_ADJU\KLGB_v9.PFL
Surface format:
FREE

Profile format:
FREE

Surface station no.: 23129 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	-5.3	0.094	-9.000	-9.000	-999.	70.	14.3	0.10	2.68	1.00	1.13	322.	7.9	282.0	2.0
12	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	2.68	1.00	0.00	0.	7.9	281.4	2.0
12	01	01	1	03	-2.5	0.068	-9.000	-9.000	-999.	43.	11.4	0.10	2.68	1.00	0.74	79.	7.9	280.9	2.0
12	01	01	1	04	-3.2	0.075	-9.000	-9.000	-999.	49.	11.7	0.10	2.68	1.00	0.86	137.	7.9	280.9	2.0
12	01	01	1	05	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	2.68	1.00	0.00	0.	7.9	280.4	2.0
12	01	01	1	06	-5.2	0.093	-9.000	-9.000	-999.	68.	14.0	0.10	2.68	1.00	1.11	92.	7.9	279.9	2.0
12	01	01	1	07	-2.3	0.066	-9.000	-9.000	-999.	41.	11.5	0.10	2.68	1.00	0.69	67.	7.9	278.8	2.0
12	01	01	1	08	-1.7	0.060	-9.000	-9.000	-999.	36.	11.4	0.10	2.68	0.54	0.65	91.	7.9	279.9	2.0
12	01	01	1	09	36.2	-9.000	-9.000	-9.000	37.	-999.	-99999.0	0.10	2.68	0.31	0.00	0.	7.9	283.8	2.0
12	01	01	1	10	108.4	0.139	0.707	0.009	119.	124.	-2.3	0.10	2.68	0.24	0.92	319.	7.9	287.5	2.0
12	01	01	1	11	160.5	0.114	1.137	0.005	334.	93.	-1.0	0.10	2.68	0.21	0.62	23.	7.9	292.5	2.0
12	01	01	1	12	186.7	0.125	1.473	0.005	623.	105.	-1.0	0.10	2.68	0.20	0.69	18.	7.9	295.4	2.0
12	01	01	1	13	186.8	0.130	1.761	0.005	1065.	112.	-1.1	0.10	2.68	0.20	0.74	250.	7.9	297.5	2.0
12	01	01	1	14	161.7	0.150	1.834	0.005	1387.	139.	-1.9	0.10	2.68	0.21	0.96	347.	7.9	300.4	2.0
12	01	01	1	15	105.5	0.243	1.633	0.005	1499.	288.	-12.4	0.10	2.68	0.24	2.11	194.	7.9	295.9	2.0
12	01	01	1	16	32.4	0.211	1.109	0.005	1530.	233.	-26.3	0.10	2.68	0.33	1.98	186.	7.9	295.4	2.0
12	01	01	1	17	-20.5	0.250	-9.000	-9.000	-999.	300.	69.2	0.10	2.68	0.60	2.81	293.	7.9	291.4	2.0
12	01	01	1	18	-25.4	0.257	-9.000	-9.000	-999.	313.	72.8	0.10	2.68	1.00	2.90	301.	7.9	288.1	2.0
12	01	01	1	19	-21.0	0.211	-9.000	-9.000	-999.	233.	49.0	0.10	2.68	1.00	2.40	313.	7.9	286.4	2.0
12	01	01	1	20	-25.7	0.258	-9.000	-9.000	-999.	315.	73.3	0.10	2.68	1.00	2.91	302.	7.9	286.4	2.0
12	01	01	1	21	-22.5	0.225	-9.000	-9.000	-999.	256.	55.7	0.10	2.68	1.00	2.55	306.	7.9	285.4	2.0
12	01	01	1	22	-9.3	0.126	-9.000	-9.000	-999.	111.	19.5	0.10	2.68	1.00	1.48	284.	7.9	285.9	2.0
12	01	01	1	23	-21.4	0.214	-9.000	-9.000	-999.	237.	50.3	0.10	2.68	1.00	2.43	282.	7.9	285.4	2.0
12	01	01	1	24	-30.1	0.300	-9.000	-9.000	-999.	394.	98.9	0.10	2.68	1.00	3.36	300.	7.9	284.2	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	322.	1.13	282.1	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

*** 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 , 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_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391891.24	3747480.41	1.04592	(14121624)	391892.01	3747456.00	0.73688c	(16122224)
391965.04	3747447.61	1.21564	(13112924)	391925.38	3747447.61	1.05723c	(16122224)
392089.38	3747454.66	2.20548c	(12122524)	392112.83	3747454.85	2.25745c	(12122524)
392033.31	3747443.03	1.42852c	(12122524)	392142.39	3747442.46	1.63475c	(12122524)
392336.71	3747437.69	0.73579c	(12120424)	392429.96	3747448.18	0.31570	(16021824)
392412.42	3747555.73	0.39430c	(12121824)	392343.77	3747480.03	0.67904	(14013124)
392217.30	3747461.24	2.74267c	(12122524)	392161.48	3747408.94	0.85247c	(12122524)
391879.25	3747513.22	1.13964	(14121624)	391891.65	3747546.98	1.40602	(14121624)
391891.84	3747573.68	1.42012	(14121624)	391884.40	3747601.90	1.12358	(14121624)
391891.08	3747641.76	1.04405	(12112924)	391889.35	3747663.46	0.88450	(12112924)
391883.45	3747699.92	0.62934	(12112924)	391881.92	3747730.82	0.50193	(12112924)
391884.40	3747754.47	0.43538	(12112924)	391885.36	3747780.40	0.37467	(12112924)
391883.83	3747768.01	0.40077	(12112924)	391493.56	3748488.26	0.02596	(12112924)
391947.12	3747875.71	0.22677	(16122324)	391983.08	3747875.94	0.23341c	(13122024)
391885.46	3747791.74	0.35196	(12112924)	391889.32	3747804.03	0.33129	(12112924)
391887.50	3747815.86	0.31060	(12112924)	391874.76	3747826.10	0.29027	(12112924)
391892.74	3747852.04	0.25833	(12112924)	391892.51	3747880.49	0.22257	(12112924)
392032.89	3747873.67	0.24380c	(13122024)	392140.29	3747873.36	0.29885c	(13092024)
392233.52	3747864.86	0.27708c	(13092024)	392523.19	3747518.42	0.24161c	(12121824)

```
      392655.00   3747574.84        0.13411  (12110924)                392733.47
      3747870.77        0.05217c (12121724)
      391927.56   3747940.84        0.17680  (16122324)                391927.83
      3747987.42        0.15013  (16122324)
      391940.95   3748045.52        0.12052  (16122324)                391926.76
      3748083.27        0.10816  (16122324)
      391928.37   3748118.62        0.09525  (16122324)                391927.56
      3748149.14        0.08759c (13122024)
      391892.49   3747904.69        0.19958  (16122324)                391891.96
      3747917.81        0.19026  (16122324)
      391891.15   3747931.74        0.18113  (16122324)                391885.26
      3747942.98        0.17356  (16122324)
      391893.29   3747955.03        0.16777  (16122324)                391893.83
      3747978.59        0.15555  (16122324)
      391893.03   3747994.39        0.14801  (16122324)                391885.80
      3748035.62        0.13058  (16122324)
      391893.83   3748088.36        0.11113  (16122324)                391894.63
      3748143.78        0.09351  (16122324)
      391894.10   3748120.49        0.10064  (16122324)                391894.63
      3748155.30        0.09018  (16122324)
      391891.15   3748182.87        0.08317  (16122324)                391893.03
      3748195.99        0.07947  (16122324)
      391927.30   3748191.71        0.07850c (13122024)                391928.64
      3748236.15        0.07033c (13122024)
      391928.64   3748259.98        0.06632c (13122024)                391894.37
      3748207.50        0.07636  (16122324)
      391891.15   3748220.09        0.07388  (16122324)                391891.15
      3748231.06        0.07132  (16122324)
      391891.15   3748243.38        0.06855  (16122324)                391891.15
      3748255.70        0.06588  (16122324)
      391895.17   3748287.02        0.05976c (13122024)                391895.44
      3748311.12        0.05670c (13122024)
      391886.07   3748326.91        0.05402c (13122024)                391893.83
      3748337.09        0.05349c (13122024)
      391896.46   3748353.98        0.05177c (13122024)                391943.47
      3748329.02        0.05652c (13122024)
      391942.12   3748346.05        0.05429c (13122024)                391935.35
      3748361.91        0.05228c (13122024)
      391897.02   3748404.40        0.04664c (13122024)                391938.93
      3748376.12        0.05064c (13122024)
      391932.47   3748387.64        0.04931c (13122024)                391891.74
      3748427.33        0.04431c (13122024)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***       16:52:29

                    PAGE  45
 *** 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        , 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_2.5   IN
                                      MICROGRAMS/M**3                          **
```

```
     X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)  Y-COORD
     (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       391929.07   3748405.45        0.04738c (13122024)               391929.40
       3748424.21        0.04551c (13122024)
       391929.73   3748439.17        0.04408c (13122024)               391928.74
       3748454.63        0.04268c (13122024)
       391897.00   3748453.15        0.04229c (13122024)               391866.08
       3747495.99        0.87464  (14121624)
       391854.46   3747480.49        0.64221  (14121624)               391855.46
       3747526.86        0.91039  (14121624)
       391854.21   3747513.99        0.85786  (14121624)               391855.21
       3747538.86        0.93215  (14121624)
       391855.46   3747549.85        0.94708  (14121624)               392423.79
       3747240.43        0.14622  (14120124)
       391889.87   3747651.95        0.96524  (12112924)               391853.95
       3747577.01        0.91537  (14121624)
       391854.20   3747603.13        0.81176  (14121624)               391854.95
       3747615.63        0.73191  (14121624)
       391855.57   3747626.38        0.64377  (14121624)               391854.14
       3747455.54        0.50553  (14120224)
       391853.42   3747443.48        0.45259  (14120224)               391888.71
       3747380.11        0.31137c (16122224)
       391853.60   3747430.34        0.39364  (14120224)               391842.26
       3747485.07        0.59996  (14121624)
       391705.13   3747221.17        0.10080  (16121924)               391890.27
       3747198.72        0.09457  (15011524)
       391791.77   3747248.29        0.11126
       (16121924)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       16:52:29

                    PAGE  46
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                        *** THE SUMMARY OF HIGHEST 24-HR RESULTS ***


                                    ** CONC OF PM_2.5   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       2.74267c ON 12122524: AT (  392217.30,  3747461.24,
29.00,    29.00,    2.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/05/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       16:52:29

                    PAGE  47
```

*** 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   1017 Informational Message(s)

A Total of   43848 Hours Were Processed

A Total of   747 Calm Hours Identified

A Total of   270 Missing Hours Identified (0.62 Percent)

   ******** FATAL ERROR MESSAGES ********
              *** NONE ***

   ********   WARNING MESSAGES   ********
ME W186   648   MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used   0.50
ME W187   648   MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

   ****
   *** AERMOD Finishes Successfully ***
   ****

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/7/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Proj CO\14715 Ops
Proj CO.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 1 8
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID CO
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Proj CO.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
```

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   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL2         0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL3         0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL4         0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL5         0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL6         0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL7         0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL8         0.0064170721     5.000    10.435     1.400
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   SRCPARAM VOL10        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL11        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL12        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL13        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL14        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL15        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL16        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL17        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL18        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL19        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL20        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL21        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL22        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL23        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL24        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL25        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL26        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL27        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL28        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL29        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL30        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL31        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL32        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL33        0.0064170721     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Proj CO.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
```

```
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 8 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14715 OPS PROJ CO.AD\01H1GALL.PLT" 31
   PLOTFILE 8 ALL 1ST "14715 OPS PROJ CO.AD\08H1GALL.PLT" 32
   SUMMFILE "14715 Ops Proj CO.sum"
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/7/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Proj CO\14715 Ops
Proj CO.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 1 8
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID CO
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Proj CO.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
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   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
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   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
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   SRCPARAM VOL6         0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL7         0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL8         0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL9         0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL10        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL11        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL12        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL13        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL14        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL15        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL16        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL17        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL18        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL19        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL20        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL21        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL22        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL23        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL24        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL25        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL26        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL27        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL28        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL29        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL30        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL31        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL32        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL33        0.0064170721     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Proj CO.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
```

```
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 8 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14715 OPS PROJ CO.AD\01H1GALL.PLT" 31
   PLOTFILE 8 ALL 1ST "14715 OPS PROJ CO.AD\08H1GALL.PLT" 32
   SUMMFILE "14715 Ops Proj 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     128       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     128       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 **********************************
 *** SETUP Finishes Successfully ***
 **********************************

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       13:23:13

                      PAGE   1
 *** 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    33 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   9818605.0 ;  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:     33 Source(s);       1 Source Group(s); and     105 Receptor(s)

               with:      0 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:     33 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) =    10.00 ;  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:   14715 Ops Proj
 CO.err
 **File for Summary of Results:   14715 Ops Proj
 CO.sum
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       13:23:13

                      PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.
              URBAN  EMISSION RATE
  SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ
  SOURCE  SCALAR VARY
    ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
```

(METERS) BY

VOL1	0	0.64171E-02	391943.2	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL2	0	0.64171E-02	391988.3	3747611.1	29.0	5.00	10.44	1.40
YES								
VOL3	0	0.64171E-02	392033.2	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL4	0	0.64171E-02	392078.1	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL5	0	0.64171E-02	392122.7	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL6	0	0.64171E-02	392167.6	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL7	0	0.64171E-02	392175.8	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL8	0	0.64171E-02	392175.0	3747565.7	29.0	5.00	10.44	1.40
YES								
VOL9	0	0.64171E-02	392129.7	3747566.0	29.0	5.00	10.44	1.40
YES								
VOL10	0	0.64171E-02	392084.7	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL11	0	0.64171E-02	392040.2	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL12	0	0.64171E-02	391995.7	3747566.3	29.0	5.00	10.44	1.40
YES								
VOL13	0	0.64171E-02	391951.4	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL14	0	0.64171E-02	391942.7	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL15	0	0.64171E-02	391942.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL16	0	0.64171E-02	391987.4	3747522.1	29.0	5.00	10.44	1.40
YES								
VOL17	0	0.64171E-02	392031.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL18	0	0.64171E-02	392076.4	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL19	0	0.64171E-02	392121.3	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL20	0	0.64171E-02	392165.8	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL21	0	0.64171E-02	392210.9	3747521.2	29.0	5.00	10.44	1.40
YES								
VOL22	0	0.64171E-02	392219.6	3747557.0	29.0	5.00	10.44	1.40
YES								
VOL23	0	0.64171E-02	392237.2	3747556.6	29.0	5.00	10.44	1.40
YES								
VOL24	0	0.64171E-02	392256.9	3747546.6	29.0	5.00	10.44	1.40
YES								
VOL25	0	0.64171E-02	392256.5	3747502.1	29.0	5.00	10.44	1.40
YES								
VOL26	0	0.64171E-02	392256.3	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL27	0	0.64171E-02	392211.2	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL28	0	0.64171E-02	392167.1	3747484.7	29.0	5.00	10.44	1.40
YES								
VOL29	0	0.64171E-02	392122.1	3747484.9	29.0	5.00	10.44	1.40
YES								
VOL30	0	0.64171E-02	392076.7	3747485.0	29.0	5.00	10.44	1.40
YES								
VOL31	0	0.64171E-02	392032.1	3747485.2	29.0	5.00	10.44	1.40
YES								

```
 VOL32            0   0.64171E-02  391987.1 3747485.9    29.0     5.00    10.44     1.40
 YES
 VOL33            0   0.64171E-02  391942.7 3747485.9    29.0     5.00    10.44     1.40
 YES
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       13:23:13

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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         ,

              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       ,
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       13:23:13

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                          *** SOURCE IDs DEFINED AS URBAN SOURCES ***

  URBAN ID   URBAN POP                                    SOURCE IDs
  --------   ---------                                    ----------


               9818605.   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       ,
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       13:23:13
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391891.2, 3747480.4, 29.0, 29.0, 2.0); (391892.0, 3747456.0, 29.0, 29.0, 2.0);
(391965.0, 3747447.6, 29.0, 29.0, 2.0); (391925.4, 3747447.6, 29.0, 29.0, 2.0);
(392089.4, 3747454.7, 29.0, 29.0, 2.0); (392112.8, 3747454.8, 29.0, 29.0, 2.0);
(392033.3, 3747443.0, 29.0, 29.0, 2.0); (392142.4, 3747442.5, 29.0, 29.0, 2.0);
(392336.7, 3747437.7, 29.0, 29.0, 2.0); (392430.0, 3747448.2, 29.0, 29.0, 2.0);
(392412.4, 3747555.7, 29.0, 29.0, 2.0); (392343.8, 3747480.0, 29.0, 29.0, 2.0);
(392217.3, 3747461.2, 29.0, 29.0, 2.0); (392161.5, 3747408.9, 29.0, 29.0, 2.0);
(391879.2, 3747513.2, 29.0, 29.0, 2.0); (391891.6, 3747547.0, 29.0, 29.0, 2.0);
(391891.8, 3747573.7, 29.0, 29.0, 2.0); (391884.4, 3747601.9, 29.0, 29.0, 2.0);
(391891.1, 3747641.8, 29.0, 29.0, 2.0); (391889.3, 3747663.5, 29.0, 29.0, 2.0);
(391883.5, 3747699.9, 29.0, 29.0, 2.0); (391881.9, 3747730.8, 29.0, 29.0, 2.0);
(391884.4, 3747754.5, 29.0, 29.0, 2.0); (391885.4, 3747780.4, 29.0, 29.0, 2.0);
(391883.8, 3747768.0, 29.0, 29.0, 2.0); (391493.6, 3748488.3, 29.0, 29.0, 2.0);
(391947.1, 3747875.7, 29.0, 29.0, 2.0); (391983.1, 3747875.9, 29.0, 29.0, 2.0);
(391885.5, 3747791.7, 29.0, 29.0, 2.0); (391889.3, 3747804.0, 29.0, 29.0, 2.0);
(391887.5, 3747815.9, 29.0, 29.0, 2.0); (391874.8, 3747826.1, 29.0, 29.0, 2.0);
(391892.7, 3747852.0, 29.0, 29.0, 2.0); (391892.5, 3747880.5, 29.0, 29.0, 2.0);
(392032.9, 3747873.7, 29.0, 29.0, 2.0); (392140.3, 3747873.4, 29.0, 29.0, 2.0);
(392233.5, 3747864.9, 29.0, 29.0, 2.0); (392523.2, 3747518.4, 28.3, 28.3, 2.0);
(392655.0, 3747574.8, 28.0, 28.0, 2.0); (392733.5, 3747870.8, 27.6, 27.6, 2.0);
(391927.6, 3747940.8, 29.0, 29.0, 2.0); (391927.8, 3747987.4, 29.0, 29.0, 2.0);
(391941.0, 3748045.5, 29.0, 29.0, 2.0); (391926.8, 3748083.3, 29.0, 29.0, 2.0);
(391928.4, 3748118.6, 29.0, 29.0, 2.0); (391927.6, 3748149.1, 29.0, 29.0, 2.0);
(391892.5, 3747904.7, 29.0, 29.0, 2.0); (391892.0, 3747917.8, 29.0, 29.0, 2.0);
(391891.1, 3747931.7, 29.0, 29.0, 2.0); (391885.3, 3747943.0, 29.0, 29.0, 2.0);
(391893.3, 3747955.0, 29.0, 29.0, 2.0); (391893.8, 3747978.6, 29.0, 29.0, 2.0);
(391893.0, 3747994.4, 29.0, 29.0, 2.0); (391885.8, 3748035.6, 29.0, 29.0, 2.0);
(391893.8, 3748088.4, 29.0, 29.0, 2.0); (391894.6, 3748143.8, 29.0, 29.0, 2.0);
(391894.1, 3748120.5, 29.0, 29.0, 2.0); (391894.6, 3748155.3, 29.0, 29.0, 2.0);
(391891.1, 3748182.9, 29.0, 29.0, 2.0); (391893.0,

3748196.0, 29.0, 29.0, 2.0);
(391927.3, 3748191.7, 29.0, 29.0, 2.0); (391928.6,
3748236.1, 29.0, 29.0, 2.0);
(391928.6, 3748260.0, 29.0, 29.0, 2.0); (391894.4,
3748207.5, 29.0, 29.0, 2.0);
(391891.1, 3748220.1, 29.0, 29.0, 2.0); (391891.1,
3748231.1, 29.0, 29.0, 2.0);
(391891.1, 3748243.4, 29.0, 29.0, 2.0); (391891.1,
3748255.7, 29.0, 29.0, 2.0);
(391895.2, 3748287.0, 29.0, 29.0, 2.0); (391895.4,
3748311.1, 29.0, 29.0, 2.0);
(391886.1, 3748326.9, 29.0, 29.0, 2.0); (391893.8,
3748337.1, 29.0, 29.0, 2.0);
(391896.5, 3748354.0, 29.0, 29.0, 2.0); (391943.5,
3748329.0, 29.0, 29.0, 2.0);
(391942.1, 3748346.0, 29.0, 29.0, 2.0); (391935.3,
3748361.9, 29.0, 29.0, 2.0);
(391897.0, 3748404.4, 29.0, 29.0, 2.0); (391938.9,
3748376.1, 29.0, 29.0, 2.0);
(391932.5, 3748387.6, 29.0, 29.0, 2.0); (391891.7,
3748427.3, 29.0, 29.0, 2.0);
(391929.1, 3748405.4, 29.0, 29.0, 2.0); (391929.4,
3748424.2, 29.0, 29.0, 2.0);
(391929.7, 3748439.2, 29.0, 29.0, 2.0); (391928.7,
3748454.6, 29.0, 29.0, 2.0);
(391897.0, 3748453.1, 29.0, 29.0, 2.0); (391866.1,
3747496.0, 29.0, 29.0, 2.0);
(391854.5, 3747480.5, 29.0, 29.0, 2.0); (391855.5,
3747526.9, 29.0, 29.0, 2.0);
(391854.2, 3747514.0, 29.0, 29.0, 2.0); (391855.2,
3747538.9, 29.0, 29.0, 2.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391855.5, 3747549.8, 29.0, 29.0, 2.0); (392423.8,
3747240.4, 29.0, 29.0, 2.0);
(391889.9, 3747651.9, 29.0, 29.0, 2.0); (391854.0,
3747577.0, 29.0, 29.0, 2.0);
(391854.2, 3747603.1, 29.0, 29.0, 2.0); (391855.0,
3747615.6, 29.0, 29.0, 2.0);
(391855.6, 3747626.4, 29.0, 29.0, 2.0); (391854.1,
3747455.5, 29.0, 29.0, 2.0);
(391853.4, 3747443.5, 29.0, 29.0, 2.0); (391888.7,
3747380.1, 29.0, 29.0, 2.0);
(391853.6, 3747430.3, 29.0, 29.0, 2.0); (391842.3,
3747485.1, 29.0, 29.0, 2.0);
(391705.1, 3747221.2, 29.0, 29.0, 2.0); (391890.3,
3747198.7, 29.0, 29.0, 2.0);
(391791.8, 3747248.3, 29.0, 29.0,
2.0);

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

```
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file:
KLGB_V9_ADJU\KLGB_v9.SFC Met
Version: 16216
Profile file:
KLGB_V9_ADJU\KLGB_v9.PFL
Surface format:
FREE

Profile format:
FREE

Surface station no.: 23129 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   -5.3  0.094 -9.000 -9.000 -999.   70.     14.3  0.10   2.68   1.00    1.13
 322.    7.9  282.0    2.0
 12 01 01   1 02 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.10   2.68   1.00    0.00
 0.    7.9  281.4    2.0
 12 01 01   1 03   -2.5  0.068 -9.000 -9.000 -999.   43.     11.4  0.10   2.68   1.00    0.74
```

```
 79.    7.9  280.9    2.0
 12 01 01   1 04   -3.2  0.075 -9.000 -9.000 -999.   49.     11.7  0.10   2.68   1.00    0.86
 137.    7.9  280.9    2.0
 12 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.10   2.68   1.00    0.00
 0.    7.9  280.4    2.0
 12 01 01   1 06   -5.2  0.093 -9.000 -9.000 -999.   68.     14.0  0.10   2.68   1.00    1.11
 92.    7.9  279.9    2.0
 12 01 01   1 07   -2.3  0.066 -9.000 -9.000 -999.   41.     11.5  0.10   2.68   1.00    0.69
 67.    7.9  278.8    2.0
 12 01 01   1 08   -1.7  0.060 -9.000 -9.000 -999.   36.     11.4  0.10   2.68   0.54    0.65
 91.    7.9  279.9    2.0
 12 01 01   1 09   36.2 -9.000 -9.000 -9.000   37. -999. -99999.0  0.10   2.68   0.31    0.00
 0.    7.9  283.8    2.0
 12 01 01   1 10  108.4  0.139  0.707  0.009  119.  124.     -2.3  0.10   2.68   0.24    0.92
 319.    7.9  287.5    2.0
 12 01 01   1 11  160.5  0.114  1.137  0.005  334.   93.     -1.0  0.10   2.68   0.21    0.62
 23.    7.9  292.5    2.0
 12 01 01   1 12  186.7  0.125  1.473  0.005  623.  105.     -1.0  0.10   2.68   0.20    0.69
 18.    7.9  295.4    2.0
 12 01 01   1 13  186.8  0.130  1.761  0.005 1065.  112.     -1.1  0.10   2.68   0.20    0.74
 250.    7.9  297.5    2.0
 12 01 01   1 14  161.7  0.150  1.834  0.005 1387.  139.     -1.9  0.10   2.68   0.21    0.96
 347.    7.9  300.4    2.0
 12 01 01   1 15  105.5  0.243  1.633  0.005 1499.  288.    -12.4  0.10   2.68   0.24    2.11
 194.    7.9  295.9    2.0
 12 01 01   1 16   32.4  0.211  1.109  0.005 1530.  233.    -26.3  0.10   2.68   0.33    1.98
 186.    7.9  295.4    2.0
 12 01 01   1 17  -20.5  0.250 -9.000 -9.000 -999.  300.     69.2  0.10   2.68   0.60    2.81
 293.    7.9  291.4    2.0
 12 01 01   1 18  -25.4  0.257 -9.000 -9.000 -999.  313.     72.8  0.10   2.68   1.00    2.90
 301.    7.9  288.1    2.0
 12 01 01   1 19  -21.0  0.211 -9.000 -9.000 -999.  233.     49.0  0.10   2.68   1.00    2.40
 313.    7.9  286.4    2.0
 12 01 01   1 20  -25.7  0.258 -9.000 -9.000 -999.  315.     73.3  0.10   2.68   1.00    2.91
 302.    7.9  286.4    2.0
 12 01 01   1 21  -22.5  0.225 -9.000 -9.000 -999.  256.     55.7  0.10   2.68   1.00    2.55
 306.    7.9  285.4    2.0
 12 01 01   1 22   -9.3  0.126 -9.000 -9.000 -999.  111.     19.5  0.10   2.68   1.00    1.48
 284.    7.9  285.9    2.0
 12 01 01   1 23  -21.4  0.214 -9.000 -9.000 -999.  237.     50.3  0.10   2.68   1.00    2.43
 282.    7.9  285.4    2.0
 12 01 01   1 24  -30.1  0.300 -9.000 -9.000 -999.  394.     98.9  0.10   2.68   1.00    3.36
 300.    7.9  284.2    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  322.    1.13   282.1   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       13:23:13

                      PAGE   9
 *** 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       ,
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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)
391891.24	3747480.41	35.47682	(13041207)	391892.01	3747456.00	37.78807	(13041207)
391965.04	3747447.61	42.08900	(13041207)	391925.38	3747447.61	41.46701	(13041207)
392089.38	3747454.66	42.81750	(13041207)	392112.83	3747454.85	41.32014	(13041207)
392033.31	3747443.03	37.53001	(13041207)	392142.39	3747442.46	34.04814	(13041207)
392336.71	3747437.69	23.90680	(12122516)	392429.96	3747448.18	13.80620	(12122516)
392412.42	3747555.73	11.12898	(15011116)	392343.77	3747480.03	27.18875	(12122516)
392217.30	3747461.24	38.97053	(12071106)	392161.48	3747408.94	17.81308	(12071106)
391879.25	3747513.22	27.19864	(13041207)	391891.65	3747546.98	29.22474	(13110408)
391891.84	3747573.68	30.84958	(13110408)	391884.40	3747601.90	21.94278	(13110408)
391891.08	3747641.76	20.89242	(16021717)	391889.35	3747663.46	17.78769	(12112916)
391883.45	3747699.92	13.31443	(12112916)	391881.92	3747730.82	10.67132	(12112916)
391884.40	3747754.47	9.20935	(12112916)	391885.36	3747780.40	7.95772	(12112916)
391883.83	3747768.01	8.52473	(12112916)	391493.56	3748488.26	1.43892	(14091424)
391947.12	3747875.71	7.03313	(12020617)	391983.08	3747875.94	7.92296	(12020617)
391885.46	3747791.74	7.53780	(15091424)	391889.32	3747804.03	7.20898	(14091424)
391887.50	3747815.86	6.89743	(14091424)	391874.76	3747826.10	6.54509	(12082022)
391892.74	3747852.04	6.15032	(15072023)	391892.51	3747880.49	5.65190	(15091120)
392032.89	3747873.67	8.46418	(12020617)	392140.29	3747873.36	8.22702	(12020617)
392233.52	3747864.86	7.99327	(14041207)	392523.19	3747518.42	6.35744	(14091722)
392655.00	3747574.84	4.11861	(13092022)	392733.47	3747870.77	2.76118	(16092618)
391927.56	3747940.84	5.08961	(12020617)	391927.83	3747987.42	4.48110	(12020617)
391940.95	3748045.52	4.12141	(12020617)	391926.76	3748083.27	3.55367	(12020617)
391928.37	3748118.62	3.32215	(12020617)	391927.56	3748149.14	3.11356	(12020617)
391892.49	3747904.69	5.28701	(15091120)	391891.96	3747917.81	5.09772	(15091120)
391891.15	3747931.74	4.90464	(15091120)	391885.26	3747942.98	4.73796	(15091120)
391893.29	3747955.03	4.60831	(15091120)	391893.83	3747978.59	4.33294	(15091003)
391893.03	3747994.39	4.16649	(15091003)	391885.80	3748035.62	3.76168	(15091003)

*** 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)
391893.83	3748088.36	3.34769	(14080322)	391894.63	3748143.78	3.00178	(14080322)
391894.10	3748120.49	3.14181	(14080322)	391894.63	3748155.30	2.93473	(14080322)
391891.15	3748182.87	2.77956	(15081805)	391893.03	3748195.99	2.71503	(15081805)
391927.30	3748191.71	2.86588	(12020617)	391928.64	3748236.15	2.65366	(12020617)
391928.64	3748259.98	2.54303	(12020617)	391894.37	3748207.50	2.65883	(15081805)
391891.15	3748220.09	2.59629	(15081805)	391891.15	3748231.06	2.54501	(15081805)
391891.15	3748243.38	2.48883	(15081805)	391891.15	3748255.70	2.43570	(15081802)
391895.17	3748287.02	2.31535	(15081802)	391895.44	3748311.12	2.22476	(15081802)
391886.07	3748326.91	2.16505	(15081802)	391893.83	3748337.09	2.13186	(15081802)
391896.46	3748353.98	2.07735	(13052920)	391943.47	3748329.02	2.35019	(12020617)
391942.12	3748346.05	2.27410	(12020617)	391935.35	3748361.91	2.17664	(12020617)
391897.02	3748404.40	1.92731	(13052920)	391938.93	3748376.12	2.14432	(12020617)
391932.47	3748387.64	2.07089	(12020617)	391891.74	3748427.33	1.86221	(13052920)
391929.07	3748405.45	1.99505	(12020617)	391929.40	3748424.21	1.93804	(12020617)
391929.73	3748439.17	1.89442	(12020617)	391928.74	3748454.63	1.84505	(12020617)
391897.00	3748453.15	1.79831	(15073104)	391866.08	3747495.99	23.71049	(13041207)
391854.46	3747480.49	21.39449	(13041207)	391855.46	3747526.86	21.66345	(13110408)
391854.21	3747513.99	20.93007	(13110408)	391855.21	3747538.86	22.08881	(13110408)
391855.46	3747549.85	22.53933	(13110408)	392423.79	3747240.43	5.29257	(15090824)

391889.87 3747651.95 19.16264 (16021717) 391853.95
3747577.01 21.10285 (13110408)
391854.20 3747603.13 16.76442 (13110408) 391854.95
3747615.63 16.58253 (16112016)
391855.57 3747626.38 16.46073 (16112016) 391854.14
3747455.54 23.54604 (13041207)
391853.42 3747443.48 23.97961 (13041207) 391888.71
3747380.11 19.98303 (13041207)
391853.60 3747430.34 24.05165 (13041207) 391842.26
3747485.07 17.40862 (13041207)
391705.13 3747221.17 7.04652 (13041207) 391890.27
3747198.72 5.33558 (15071920)
391791.77 3747248.29 8.35925
(13041207)

*** 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 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391891.24	3747480.41	16.21607	(13012408)	391892.01	3747456.00	13.90130	(12121624)
391965.04	3747447.61	22.55303	(14021308)	391925.38	3747447.61	17.47212	(14021308)
392089.38	3747454.66	30.88794	(14021308)	392112.83	3747454.85	31.20935	(14021308)
392033.31	3747443.03	24.41224	(14021308)	392142.39	3747442.46	24.85355	(14021308)
392336.71	3747437.69	13.28984m	(12050224)	392429.96	3747448.18	7.19994	(16101608)
392412.42	3747555.73	8.71842	(12110824)	392343.77	3747480.03	13.01721	(16101608)
392217.30	3747461.24	34.26935	(14021308)	392161.48	3747408.94	15.78156	(14021308)
391879.25	3747513.22	16.15208	(14120308)	391891.65	3747546.98	19.22016	(14021308)
391891.84	3747573.68	18.88902	(14021308)	391884.40	3747601.90	16.22591	(13021808)
391891.08	3747641.76	14.88175	(13052508)	391889.35	3747663.46	12.52484	(13021908)
391883.45	3747699.92	9.42619	(13021908)	391881.92	3747730.82	7.86952	(15090108)
391884.40	3747754.47	7.21632	(13091724)	391885.36	3747780.40	6.60184	(13091724)

391883.83 3747768.01 6.86287 (13091724) 391493.56
3748488.26 1.12246 (13091724)
391947.12 3747875.71 5.00635 (15082008) 391983.08
3747875.94 5.13415 (13041424)
391885.46 3747791.74 6.34614 (13091724) 391889.32
3747804.03 6.13444 (13091724)
391887.50 3747815.86 5.86261 (13091724) 391874.76
3747826.10 5.51671 (13091724)
391892.74 3747852.04 5.20965 (13091724) 391892.51
3747880.49 4.71693 (13091724)
392032.89 3747873.67 5.31792 (13041424) 392140.29
3747873.36 4.97434 (12042924)
392233.52 3747864.86 5.15686 (12042924) 392523.19
3747518.42 4.66863 (15091524)
392655.00 3747574.84 3.24643 (12110824) 392733.47
3747870.77 1.79832 (12041224)
391927.56 3747940.84 3.96542 (15082008) 391927.83
3747987.42 3.40830 (15082008)
391940.95 3748045.52 3.03252 (13041424) 391926.76
3748083.27 2.73587 (13041424)
391928.37 3748118.62 2.54577 (13041424) 391927.56
3748149.14 2.38991 (13041424)
391892.49 3747904.69 4.33795 (13091724) 391891.96
3747917.81 4.14564 (13091724)
391891.15 3747931.74 3.97194 (15082008) 391885.26
3747942.98 3.81429 (15082008)
391893.29 3747955.03 3.72004 (15082008) 391893.83
3747978.59 3.47602 (15082008)
391893.03 3747994.39 3.32028 (15082008) 391885.80
3748035.62 2.94946 (15082008)
391893.83 3748088.36 2.55786 (13041424) 391894.63
3748143.78 2.31470 (13041424)
391894.10 3748120.49 2.41242 (13041424) 391894.63
3748155.30 2.26721 (13041424)
391891.15 3748182.87 2.14818 (13041424) 391893.03
3748195.99 2.10486 (13041424)
391927.30 3748191.71 2.19595 (13041424) 391928.64
3748236.15 2.01759 (13041424)
391928.64 3748259.98 1.92918 (13041424) 391894.37
3748207.50 2.06643 (13041424)
391891.15 3748220.09 2.01415 (13041424) 391891.15
3748231.06 1.97670 (13041424)
391891.15 3748243.38 1.93570 (13041424) 391891.15
3748255.70 1.89579 (13041424)
391895.17 3748287.02 1.80471 (13041424) 391895.44
3748311.12 1.73382 (13041424)
391886.07 3748326.91 1.67905 (13041424) 391893.83
3748337.09 1.65968 (13041424)
391896.46 3748353.98 1.61672 (13041424) 391943.47
3748329.02 1.70059 (13041424)
391942.12 3748346.05 1.64918 (13041424) 391935.35
3748361.91 1.60490 (13041424)
391897.02 3748404.40 1.49114 (13041424) 391938.93
3748376.12 1.56435 (13041424)
391932.47 3748387.64 1.53529 (13041424) 391891.74
3748427.33 1.43665 (13041424)

*** 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 (M)	CONC	(YYMMDDHH)
391929.07	3748405.45	1.49025	(13041424)	391929.40	3748424.21	1.44393	(13041424)
391929.73	3748439.17	1.40835	(13041424)	391928.74	3748454.63	1.37339	(13041424)
391897.00	3748453.15	1.38150	(13041424)	391866.08	3747495.99	13.85080	(13012408)
391854.46	3747480.49	12.39498	(13012408)	391855.46	3747526.86	13.61318	(14120308)
391854.21	3747513.99	13.27418	(14120308)	391855.21	3747538.86	13.65002	(14113008)
391855.46	3747549.85	13.93799	(14113008)	392423.79	3747240.43	4.86408c	(12120424)
391889.87	3747651.95	13.72355	(13052508)	391853.95	3747577.01	13.54465	(14113008)
391854.20	3747603.13	12.56841	(13021808)	391854.95	3747615.63	12.29890	(13021808)
391855.57	3747626.38	11.88403	(13021808)	391854.14	3747455.54	11.03961	(13012408)
391853.42	3747443.48	10.12092	(12121624)	391888.71	3747380.11	7.68116	(12120908)
391853.60	3747430.34	9.46910	(12121624)	391842.26	3747485.07	11.52902	(13012408)
391705.13	3747221.17	2.78725	(12120908)	391890.27	3747198.72	3.14806	(16121008)
391791.77	3747248.29	3.42825	(12120908)				

FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1 *** 09/07/23
*** AERMET - VERSION 16216 ***
*** *** 13:23:13

PAGE 13
*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF CO IN
MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID

ALL HIGH 1ST HIGH VALUE IS 42.81750 ON 13041207: AT (392089.38, 3747454.66, 29.00, 29.00, 2.00) DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** THE SUMMARY OF HIGHEST 8-HR RESULTS ***

** CONC OF CO IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE GRID-ID

ALL HIGH 1ST HIGH VALUE IS 34.26935 ON 14021308: AT (392217.30, 3747461.24, 29.00, 29.00, 2.00) DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** 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 1017 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 747 Calm Hours Identified

A Total of 270 Missing Hours Identified (0.62 Percent)

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********

```
ME W186     128       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187     128       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

   ************************************
   *** AERMOD Finishes Successfully ***
   ************************************
```

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/7/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Proj NOX\14715 Ops
Proj NOX.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 1
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID NOX
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Proj NOX.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
```

```
   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL2         0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL3         0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL4         0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL5         0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL6         0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL7         0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL8         0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL9         0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL10        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL11        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL12        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL13        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL14        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL15        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL16        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL17        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL18        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL19        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL20        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL21        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL22        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL23        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL24        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL25        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL26        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL27        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL28        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL29        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL30        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL31        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL32        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL33        0.0004598923     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Proj NOX.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
```

```
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14715 OPS PROJ NOX.AD\01H1GALL.PLT" 31
   SUMMFILE "14715 Ops Proj NOX.sum"
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/7/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Proj NOX\14715 Ops
Proj NOX.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 1
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID NOX
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Proj NOX.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
```

```
   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL2         0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL3         0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL4         0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL5         0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL6         0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL7         0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL8         0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL9         0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL10        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL11        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL12        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL13        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL14        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL15        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL16        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL17        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL18        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL19        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL20        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL21        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL22        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL23        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL24        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL25        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL26        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL27        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL28        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL29        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL30        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL31        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL32        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL33        0.0004598923     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Proj NOX.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
```

```
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14715 OPS PROJ NOX.AD\01H1GALL.PLT" 31
   SUMMFILE "14715 Ops Proj NOX.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     128       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     128       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 *********************************
 *** SETUP Finishes Successfully ***
 *********************************

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       13:29:42

                      PAGE   1
 *** 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    33 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   9818605.0 ;  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:     33 Source(s);       1 Source Group(s); and     105 Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:     33 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) =    10.00 ;  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:   14715 Ops Proj
 NOX.err
 **File for Summary of Results:   14715 Ops Proj
 NOX.sum
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       13:29:42

                      PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.
              URBAN  EMISSION RATE
  SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ
  SOURCE  SCALAR VARY
    ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)             BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

- - - - - - - - - - - - -

VOL1	0	0.45989E-03	391943.2	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL2	0	0.45989E-03	391988.3	3747611.1	29.0	5.00	10.44	1.40
YES								
VOL3	0	0.45989E-03	392033.2	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL4	0	0.45989E-03	392078.1	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL5	0	0.45989E-03	392122.7	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL6	0	0.45989E-03	392167.6	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL7	0	0.45989E-03	392175.8	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL8	0	0.45989E-03	392175.0	3747565.7	29.0	5.00	10.44	1.40
YES								
VOL9	0	0.45989E-03	392129.7	3747566.0	29.0	5.00	10.44	1.40
YES								
VOL10	0	0.45989E-03	392084.7	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL11	0	0.45989E-03	392040.2	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL12	0	0.45989E-03	391995.7	3747566.3	29.0	5.00	10.44	1.40
YES								
VOL13	0	0.45989E-03	391951.4	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL14	0	0.45989E-03	391942.7	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL15	0	0.45989E-03	391942.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL16	0	0.45989E-03	391987.4	3747522.1	29.0	5.00	10.44	1.40
YES								
VOL17	0	0.45989E-03	392031.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL18	0	0.45989E-03	392076.4	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL19	0	0.45989E-03	392121.3	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL20	0	0.45989E-03	392165.8	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL21	0	0.45989E-03	392210.9	3747521.2	29.0	5.00	10.44	1.40
YES								
VOL22	0	0.45989E-03	392219.6	3747557.0	29.0	5.00	10.44	1.40
YES								
VOL23	0	0.45989E-03	392237.2	3747556.6	29.0	5.00	10.44	1.40
YES								
VOL24	0	0.45989E-03	392256.9	3747546.6	29.0	5.00	10.44	1.40
YES								
VOL25	0	0.45989E-03	392256.5	3747502.1	29.0	5.00	10.44	1.40
YES								
VOL26	0	0.45989E-03	392256.3	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL27	0	0.45989E-03	392211.2	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL28	0	0.45989E-03	392167.1	3747484.7	29.0	5.00	10.44	1.40
YES								
VOL29	0	0.45989E-03	392122.1	3747484.9	29.0	5.00	10.44	1.40
YES								
VOL30	0	0.45989E-03	392076.7	3747485.0	29.0	5.00	10.44	1.40
YES								
VOL31	0	0.45989E-03	392032.1	3747485.2	29.0	5.00	10.44	1.40
YES								
VOL32	0	0.45989E-03	391987.1	3747485.9	29.0	5.00	10.44	1.40
YES								

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
9	818605.	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 ,

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391891.2, 3747480.4, 29.0, 29.0, 2.0); (391892.0, 3747456.0, 29.0, 29.0, 2.0);
(391965.0, 3747447.6, 29.0, 29.0, 2.0); (391925.4, 3747447.6, 29.0, 29.0, 2.0);
(392089.4, 3747454.7, 29.0, 29.0, 2.0); (392112.8, 3747454.8, 29.0, 29.0, 2.0);
(392033.3, 3747443.0, 29.0, 29.0, 2.0); (392142.4, 3747442.5, 29.0, 29.0, 2.0);
(392336.7, 3747437.7, 29.0, 29.0, 2.0); (392430.0, 3747448.2, 29.0, 29.0, 2.0);
(392412.4, 3747555.7, 29.0, 29.0, 2.0); (392343.8, 3747480.0, 29.0, 29.0, 2.0);
(392217.3, 3747461.2, 29.0, 29.0, 2.0); (392161.5, 3747408.9, 29.0, 29.0, 2.0);
(391879.2, 3747513.2, 29.0, 29.0, 2.0); (391891.6, 3747547.0, 29.0, 29.0, 2.0);
(391891.8, 3747573.7, 29.0, 29.0, 2.0); (391884.4, 3747601.9, 29.0, 29.0, 2.0);
(391891.1, 3747641.8, 29.0, 29.0, 2.0); (391889.3, 3747663.5, 29.0, 29.0, 2.0);
(391883.5, 3747699.9, 29.0, 29.0, 2.0); (391881.9, 3747730.8, 29.0, 29.0, 2.0);
(391884.4, 3747754.5, 29.0, 29.0, 2.0); (391885.4, 3747780.4, 29.0, 29.0, 2.0);
(391883.8, 3747768.0, 29.0, 29.0, 2.0); (391493.6, 3748488.3, 29.0, 29.0, 2.0);
(391947.1, 3747875.7, 29.0, 29.0, 2.0); (391983.1, 3747875.9, 29.0, 29.0, 2.0);
(391885.5, 3747791.7, 29.0, 29.0, 2.0); (391889.3, 3747804.0, 29.0, 29.0, 2.0);
(391887.5, 3747815.9, 29.0, 29.0, 2.0); (391874.8, 3747826.1, 29.0, 29.0, 2.0);
(391892.7, 3747852.0, 29.0, 29.0, 2.0); (391892.5, 3747880.5, 29.0, 29.0, 2.0);
(392032.9, 3747873.7, 29.0, 29.0, 2.0); (392140.3, 3747873.4, 29.0, 29.0, 2.0);
(392233.5, 3747864.9, 29.0, 29.0, 2.0); (392523.2, 3747518.4, 28.3, 28.3, 2.0);
(392655.0, 3747574.8, 28.0, 28.0, 2.0); (392733.5, 3747870.8, 27.6, 27.6, 2.0);
(391927.6, 3747940.8, 29.0, 29.0, 2.0); (391927.8, 3747987.4, 29.0, 29.0, 2.0);
(391941.0, 3748045.5, 29.0, 29.0, 2.0); (391926.8, 3748083.3, 29.0, 29.0, 2.0);
(391928.4, 3748118.6, 29.0, 29.0, 2.0); (391927.6, 3748149.1, 29.0, 29.0, 2.0);
(391892.5, 3747904.7, 29.0, 29.0, 2.0); (391892.0, 3747917.8, 29.0, 29.0, 2.0);
(391891.1, 3747931.7, 29.0, 29.0, 2.0); (391885.3, 3747943.0, 29.0, 29.0, 2.0);
(391893.3, 3747955.0, 29.0, 29.0, 2.0); (391893.8, 3747978.6, 29.0, 29.0, 2.0);
(391893.0, 3747994.4, 29.0, 29.0, 2.0); (391885.8, 3748035.6, 29.0, 29.0, 2.0);
(391893.8, 3748088.4, 29.0, 29.0, 2.0); (391894.6, 3748143.8, 29.0, 29.0, 2.0);
(391894.1, 3748120.5, 29.0, 29.0, 2.0); (391894.6, 3748155.3, 29.0, 29.0, 2.0);
(391891.1, 3748182.9, 29.0, 29.0, 2.0); (391893.0, 3748196.0, 29.0, 29.0, 2.0);
(391927.3, 3748191.7, 29.0, 29.0, 2.0); (391928.6,

3748236.1, 29.0, 29.0, 2.0);
(391928.6, 3748260.0, 29.0, 29.0, 2.0); (391894.4,
3748207.5, 29.0, 29.0, 2.0);
(391891.1, 3748220.1, 29.0, 29.0, 2.0); (391891.1,
3748231.1, 29.0, 29.0, 2.0);
(391891.1, 3748243.4, 29.0, 29.0, 2.0); (391891.1,
3748255.7, 29.0, 29.0, 2.0);
(391895.2, 3748287.0, 29.0, 29.0, 2.0); (391895.4,
3748311.1, 29.0, 29.0, 2.0);
(391886.1, 3748326.9, 29.0, 29.0, 2.0); (391893.8,
3748337.1, 29.0, 29.0, 2.0);
(391896.5, 3748354.0, 29.0, 29.0, 2.0); (391943.5,
3748329.0, 29.0, 29.0, 2.0);
(391942.1, 3748346.0, 29.0, 29.0, 2.0); (391935.3,
3748361.9, 29.0, 29.0, 2.0);
(391897.0, 3748404.4, 29.0, 29.0, 2.0); (391938.9,
3748376.1, 29.0, 29.0, 2.0);
(391932.5, 3748387.6, 29.0, 29.0, 2.0); (391891.7,
3748427.3, 29.0, 29.0, 2.0);
(391929.1, 3748405.4, 29.0, 29.0, 2.0); (391929.4,
3748424.2, 29.0, 29.0, 2.0);
(391929.7, 3748439.2, 29.0, 29.0, 2.0); (391928.7,
3748454.6, 29.0, 29.0, 2.0);
(391897.0, 3748453.1, 29.0, 29.0, 2.0); (391866.1,
3747496.0, 29.0, 29.0, 2.0);
(391854.5, 3747480.5, 29.0, 29.0, 2.0); (391855.5,
3747526.9, 29.0, 29.0, 2.0);
(391854.2, 3747514.0, 29.0, 29.0, 2.0); (391855.2,
3747538.9, 29.0, 29.0, 2.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391855.5, 3747549.8, 29.0, 29.0, 2.0); (392423.8,
3747240.4, 29.0, 29.0, 2.0);
(391889.9, 3747651.9, 29.0, 29.0, 2.0); (391854.0,
3747577.0, 29.0, 29.0, 2.0);
(391854.2, 3747603.1, 29.0, 29.0, 2.0); (391855.0,
3747615.6, 29.0, 29.0, 2.0);
(391855.6, 3747626.4, 29.0, 29.0, 2.0); (391854.1,
3747455.5, 29.0, 29.0, 2.0);
(391853.4, 3747443.5, 29.0, 29.0, 2.0); (391888.7,
3747380.1, 29.0, 29.0, 2.0);
(391853.6, 3747430.3, 29.0, 29.0, 2.0); (391842.3,
3747485.1, 29.0, 29.0, 2.0);
(391705.1, 3747221.2, 29.0, 29.0, 2.0); (391890.3,
3747198.7, 29.0, 29.0, 2.0);
(391791.8, 3747248.3, 29.0, 29.0,
2.0);

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***

(1=YES; 0=NO)

```
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file:
KLGB_V9_ADJU\KLGB_v9.SFC Met
Version: 16216
Profile file:
KLGB_V9_ADJU\KLGB_v9.PFL
Surface format:
FREE

Profile format:
FREE

Surface station no.: 23129 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	-5.3	0.094	-9.000	-9.000	-999.	70.	14.3	0.10	2.68	1.00	1.13	322.	7.9	282.0	2.0
12	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	2.68	1.00	0.00	0.	7.9	281.4	2.0
12	01	01	1	03	-2.5	0.068	-9.000	-9.000	-999.	43.	11.4	0.10	2.68	1.00	0.74	79.	7.9	280.9	2.0
12	01	01	1	04	-3.2	0.075	-9.000	-9.000	-999.	49.	11.7	0.10	2.68	1.00	0.86				

```
137.    7.9  280.9    2.0
12 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.10   2.68   1.00    0.00
0.    7.9  280.4    2.0
12 01 01   1 06   -5.2  0.093 -9.000 -9.000 -999.   68.     14.0  0.10   2.68   1.00    1.11
92.    7.9  279.9    2.0
12 01 01   1 07   -2.3  0.066 -9.000 -9.000 -999.   41.     11.5  0.10   2.68   1.00    0.69
67.    7.9  278.8    2.0
12 01 01   1 08   -1.7  0.060 -9.000 -9.000 -999.   36.     11.4  0.10   2.68   0.54    0.65
91.    7.9  279.9    2.0
12 01 01   1 09   36.2 -9.000 -9.000 -9.000   37. -999. -99999.0  0.10   2.68   0.31    0.00
0.    7.9  283.8    2.0
12 01 01   1 10  108.4  0.139  0.707  0.009  119.  124.     -2.3  0.10   2.68   0.24    0.92
319.    7.9  287.5    2.0
12 01 01   1 11  160.5  0.114  1.137  0.005  334.   93.     -1.0  0.10   2.68   0.21    0.62
23.    7.9  292.5    2.0
12 01 01   1 12  186.7  0.125  1.473  0.005  623.  105.     -1.0  0.10   2.68   0.20    0.69
18.    7.9  295.4    2.0
12 01 01   1 13  186.8  0.130  1.761  0.005 1065.  112.     -1.1  0.10   2.68   0.20    0.74
250.    7.9  297.5    2.0
12 01 01   1 14  161.7  0.150  1.834  0.005 1387.  139.     -1.9  0.10   2.68   0.21    0.96
347.    7.9  300.4    2.0
12 01 01   1 15  105.5  0.243  1.633  0.005 1499.  288.    -12.4  0.10   2.68   0.24    2.11
194.    7.9  295.9    2.0
12 01 01   1 16   32.4  0.211  1.109  0.005 1530.  233.    -26.3  0.10   2.68   0.33    1.98
186.    7.9  295.4    2.0
12 01 01   1 17  -20.5  0.250 -9.000 -9.000 -999.  300.     69.2  0.10   2.68   0.60    2.81
293.    7.9  291.4    2.0
12 01 01   1 18  -25.4  0.257 -9.000 -9.000 -999.  313.     72.8  0.10   2.68   1.00    2.90
301.    7.9  288.1    2.0
12 01 01   1 19  -21.0  0.211 -9.000 -9.000 -999.  233.     49.0  0.10   2.68   1.00    2.40
313.    7.9  286.4    2.0
12 01 01   1 20  -25.7  0.258 -9.000 -9.000 -999.  315.     73.3  0.10   2.68   1.00    2.91
302.    7.9  286.4    2.0
12 01 01   1 21  -22.5  0.225 -9.000 -9.000 -999.  256.     55.7  0.10   2.68   1.00    2.55
306.    7.9  285.4    2.0
12 01 01   1 22   -9.3  0.126 -9.000 -9.000 -999.  111.     19.5  0.10   2.68   1.00    1.48
284.    7.9  285.9    2.0
12 01 01   1 23  -21.4  0.214 -9.000 -9.000 -999.  237.     50.3  0.10   2.68   1.00    2.43
282.    7.9  285.4    2.0
12 01 01   1 24  -30.1  0.300 -9.000 -9.000 -999.  394.     98.9  0.10   2.68   1.00    3.36
300.    7.9  284.2    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  322.    1.13   282.1   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       13:29:42

                      PAGE   9
 *** 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       ,  . . .      ,
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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 (M)	CONC	(YYMMDDHH)
391891.24	3747480.41	2.54252	(13041207)	391892.01	3747456.00	2.70816	(13041207)
391965.04	3747447.61	3.01639	(13041207)	391925.38	3747447.61	2.97182	(13041207)
392089.38	3747454.66	3.06860	(13041207)	392112.83	3747454.85	2.96129	(13041207)
392033.31	3747443.03	2.68966	(13041207)	392142.39	3747442.46	2.44013	(13041207)
392336.71	3747437.69	1.71333	(12122516)	392429.96	3747448.18	0.98945	(12122516)
392412.42	3747555.73	0.79758	(15011116)	392343.77	3747480.03	1.94854	(12122516)
392217.30	3747461.24	2.79290	(12071106)	392161.48	3747408.94	1.27661	(12071106)
391879.25	3747513.22	1.94924	(13041207)	391891.65	3747546.98	2.09445	(13110408)
391891.84	3747573.68	2.21090	(13110408)	391884.40	3747601.90	1.57257	(13110408)
391891.08	3747641.76	1.49730	(16021717)	391889.35	3747663.46	1.27479	(12112916)
391883.45	3747699.92	0.95420	(12112916)	391881.92	3747730.82	0.76478	(12112916)
391884.40	3747754.47	0.66001	(12112916)	391885.36	3747780.40	0.57031	(12112916)
391883.83	3747768.01	0.61094	(12112916)	391493.56	3748488.26	0.10312	(14091424)
391947.12	3747875.71	0.50404	(12020617)	391983.08	3747875.94	0.56781	(12020617)
391885.46	3747791.74	0.54021	(15091424)	391889.32	3747804.03	0.51665	(14091424)
391887.50	3747815.86	0.49432	(14091424)	391874.76	3747826.10	0.46907	(12082022)
391892.74	3747852.04	0.44077	(15072023)	391892.51	3747880.49	0.40505	(15091120)
392032.89	3747873.67	0.60660	(12020617)	392140.29	3747873.36	0.58961	(12020617)
392233.52	3747864.86	0.57285	(14041207)	392523.19	3747518.42	0.45562	(14091722)
392655.00	3747574.84	0.29517	(13092022)	392733.47	3747870.77	0.19789	(16092618)
391927.56	3747940.84	0.36476	(12020617)	391927.83	3747987.42	0.32115	(12020617)
391940.95	3748045.52	0.29537	(12020617)	391926.76	3748083.27	0.25468	(12020617)
391928.37	3748118.62	0.23809	(12020617)	391927.56	3748149.14	0.22314	(12020617)
391892.49	3747904.69	0.37890	(15091120)	391891.96	3747917.81	0.36534	(15091120)
391891.15	3747931.74	0.35150	(15091120)	391885.26	3747942.98	0.33956	(15091120)
391893.29	3747955.03	0.33026	(15091120)	391893.83	3747978.59	0.31053	(15091003)
391893.03	3747994.39	0.29860	(15091003)	391885.80	3748035.62	0.26959	(15091003)
391893.83	3748088.36	0.23992	(14080322)	391894.63	3748143.78	0.21513	(14080322)

391894.10 3748120.49 0.22516 (14080322) 391894.63
3748155.30 0.21032 (14080322)
391891.15 3748182.87 0.19920 (15081805) 391893.03
3748195.99 0.19458 (15081805)
391927.30 3748191.71 0.20539 (12020617) 391928.64
3748236.15 0.19018 (12020617)
391928.64 3748259.98 0.18225 (12020617) 391894.37
3748207.50 0.19055 (15081805)
391891.15 3748220.09 0.18607 (15081805) 391891.15
3748231.06 0.18239 (15081805)
391891.15 3748243.38 0.17837 (15081805) 391891.15
3748255.70 0.17456 (15081802)
391895.17 3748287.02 0.16593 (15081802) 391895.44
3748311.12 0.15944 (15081802)
391886.07 3748326.91 0.15516 (15081802) 391893.83
3748337.09 0.15278 (15081802)
391896.46 3748353.98 0.14888 (13052920) 391943.47
3748329.02 0.16843 (12020617)
391942.12 3748346.05 0.16298 (12020617) 391935.35
3748361.91 0.15599 (12020617)
391897.02 3748404.40 0.13812 (13052920) 391938.93
3748376.12 0.15368 (12020617)
391932.47 3748387.64 0.14841 (12020617) 391891.74
3748427.33 0.13346 (13052920)

*** 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 NOX IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391929.07	3748405.45	0.14298	(12020617)	391929.40	3748424.21	0.13889	(12020617)
391929.73	3748439.17	0.13577	(12020617)	391928.74	3748454.63	0.13223	(12020617)
391897.00	3748453.15	0.12888	(15073104)	391866.08	3747495.99	1.69926	(13041207)
391854.46	3747480.49	1.53328	(13041207)	391855.46	3747526.86	1.55255	(13110408)
391854.21	3747513.99	1.50000	(13110408)	391855.21	3747538.86	1.58304	(13110408)
391855.46	3747549.85	1.61533	(13110408)	392423.79	3747240.43	0.37930	(15090824)
391889.87	3747651.95	1.37333	(16021717)	391853.95	3747577.01	1.51238	(13110408)

391854.20 3747603.13 1.20146 (13110408) 391854.95
3747615.63 1.18842 (16112016)
391855.57 3747626.38 1.17969 (16112016) 391854.14
3747455.54 1.68747 (13041207)
391853.42 3747443.48 1.71855 (13041207) 391888.71
3747380.11 1.43212 (13041207)
391853.60 3747430.34 1.72371 (13041207) 391842.26
3747485.07 1.24762 (13041207)
391705.13 3747221.17 0.50500 (13041207) 391890.27
3747198.72 0.38239 (15071920)
391791.77 3747248.29 0.59908
(13041207)

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF NOX IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	1ST HIGH	VALUE IS 3.06860	ON 13041207: AT (392089.38, 3747454.66, 29.00, 29.00, 2.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** 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 1017 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 747 Calm Hours Identified

A Total of 270 Missing Hours Identified (0.62 Percent)

******** FATAL ERROR MESSAGES ********

*** NONE ***

******** WARNING MESSAGES ********

ME W186 128 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used 0.50

ME W187 128 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

****

*** AERMOD Finishes Successfully ***

****

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/7/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Proj PM10\14715 Ops
Proj PM10.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID PM_10
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Proj PM10.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
```

```
   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL2         0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL3         0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL4         0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL5         0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL6         0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL7         0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL8         0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL9         0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL10        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL11        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL12        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL13        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL14        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL15        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL16        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL17        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL18        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL19        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL20        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL21        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL22        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL23        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL24        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL25        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL26        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL27        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL28        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL29        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL30        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL31        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL32        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL33        0.0000919785     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Proj PM10.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
```

```
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "14715 OPS PROJ PM10.AD\24H1GALL.PLT" 31
   SUMMFILE "14715 Ops Proj PM10.sum"
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/7/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Proj PM10\14715 Ops
Proj PM10.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID PM_10
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Proj PM10.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
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   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
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   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
```

```
   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL2         0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL3         0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL4         0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL5         0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL6         0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL7         0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL8         0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL9         0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL10        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL11        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL12        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL13        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL14        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL15        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL16        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL17        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL18        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL19        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL20        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL21        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL22        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL23        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL24        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL25        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL26        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL27        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL28        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL29        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL30        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL31        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL32        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL33        0.0000919785     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Proj PM10.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
```

```
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "14715 OPS PROJ PM10.AD\24H1GALL.PLT" 31
   SUMMFILE "14715 Ops Proj 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     128       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     128       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 **********************************
 *** SETUP Finishes Successfully ***
 **********************************

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        14:32:08

                      PAGE   1
 *** 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    33 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   9818605.0 ;  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:     33 Source(s);       1 Source Group(s); and     105 Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:     33 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) =    10.00 ;  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:   14715 Ops Proj
 PM10.err
 **File for Summary of Results:   14715 Ops Proj
 PM10.sum
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        14:32:08

                     PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.
              URBAN  EMISSION RATE
  SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ
  SOURCE  SCALAR VARY
    ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

- - - - - - - - - - - - -

VOL1	0	0.91979E-04	391943.2	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL2	0	0.91979E-04	391988.3	3747611.1	29.0	5.00	10.44	1.40
YES								
VOL3	0	0.91979E-04	392033.2	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL4	0	0.91979E-04	392078.1	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL5	0	0.91979E-04	392122.7	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL6	0	0.91979E-04	392167.6	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL7	0	0.91979E-04	392175.8	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL8	0	0.91979E-04	392175.0	3747565.7	29.0	5.00	10.44	1.40
YES								
VOL9	0	0.91979E-04	392129.7	3747566.0	29.0	5.00	10.44	1.40
YES								
VOL10	0	0.91979E-04	392084.7	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL11	0	0.91979E-04	392040.2	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL12	0	0.91979E-04	391995.7	3747566.3	29.0	5.00	10.44	1.40
YES								
VOL13	0	0.91979E-04	391951.4	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL14	0	0.91979E-04	391942.7	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL15	0	0.91979E-04	391942.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL16	0	0.91979E-04	391987.4	3747522.1	29.0	5.00	10.44	1.40
YES								
VOL17	0	0.91979E-04	392031.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL18	0	0.91979E-04	392076.4	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL19	0	0.91979E-04	392121.3	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL20	0	0.91979E-04	392165.8	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL21	0	0.91979E-04	392210.9	3747521.2	29.0	5.00	10.44	1.40
YES								
VOL22	0	0.91979E-04	392219.6	3747557.0	29.0	5.00	10.44	1.40
YES								
VOL23	0	0.91979E-04	392237.2	3747556.6	29.0	5.00	10.44	1.40
YES								
VOL24	0	0.91979E-04	392256.9	3747546.6	29.0	5.00	10.44	1.40
YES								
VOL25	0	0.91979E-04	392256.5	3747502.1	29.0	5.00	10.44	1.40
YES								
VOL26	0	0.91979E-04	392256.3	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL27	0	0.91979E-04	392211.2	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL28	0	0.91979E-04	392167.1	3747484.7	29.0	5.00	10.44	1.40
YES								
VOL29	0	0.91979E-04	392122.1	3747484.9	29.0	5.00	10.44	1.40
YES								
VOL30	0	0.91979E-04	392076.7	3747485.0	29.0	5.00	10.44	1.40
YES								
VOL31	0	0.91979E-04	392032.1	3747485.2	29.0	5.00	10.44	1.40
YES								
VOL32	0	0.91979E-04	391987.1	3747485.9	29.0	5.00	10.44	1.40
YES								

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
9818605.	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 ,

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391891.2, 3747480.4, 29.0, 29.0, 2.0); (391892.0, 3747456.0, 29.0, 29.0, 2.0);
(391965.0, 3747447.6, 29.0, 29.0, 2.0); (391925.4, 3747447.6, 29.0, 29.0, 2.0);
(392089.4, 3747454.7, 29.0, 29.0, 2.0); (392112.8, 3747454.8, 29.0, 29.0, 2.0);
(392033.3, 3747443.0, 29.0, 29.0, 2.0); (392142.4, 3747442.5, 29.0, 29.0, 2.0);
(392336.7, 3747437.7, 29.0, 29.0, 2.0); (392430.0, 3747448.2, 29.0, 29.0, 2.0);
(392412.4, 3747555.7, 29.0, 29.0, 2.0); (392343.8, 3747480.0, 29.0, 29.0, 2.0);
(392217.3, 3747461.2, 29.0, 29.0, 2.0); (392161.5, 3747408.9, 29.0, 29.0, 2.0);
(391879.2, 3747513.2, 29.0, 29.0, 2.0); (391891.6, 3747547.0, 29.0, 29.0, 2.0);
(391891.8, 3747573.7, 29.0, 29.0, 2.0); (391884.4, 3747601.9, 29.0, 29.0, 2.0);
(391891.1, 3747641.8, 29.0, 29.0, 2.0); (391889.3, 3747663.5, 29.0, 29.0, 2.0);
(391883.5, 3747699.9, 29.0, 29.0, 2.0); (391881.9, 3747730.8, 29.0, 29.0, 2.0);
(391884.4, 3747754.5, 29.0, 29.0, 2.0); (391885.4, 3747780.4, 29.0, 29.0, 2.0);
(391883.8, 3747768.0, 29.0, 29.0, 2.0); (391493.6, 3748488.3, 29.0, 29.0, 2.0);
(391947.1, 3747875.7, 29.0, 29.0, 2.0); (391983.1, 3747875.9, 29.0, 29.0, 2.0);
(391885.5, 3747791.7, 29.0, 29.0, 2.0); (391889.3, 3747804.0, 29.0, 29.0, 2.0);
(391887.5, 3747815.9, 29.0, 29.0, 2.0); (391874.8, 3747826.1, 29.0, 29.0, 2.0);
(391892.7, 3747852.0, 29.0, 29.0, 2.0); (391892.5, 3747880.5, 29.0, 29.0, 2.0);
(392032.9, 3747873.7, 29.0, 29.0, 2.0); (392140.3, 3747873.4, 29.0, 29.0, 2.0);
(392233.5, 3747864.9, 29.0, 29.0, 2.0); (392523.2, 3747518.4, 28.3, 28.3, 2.0);
(392655.0, 3747574.8, 28.0, 28.0, 2.0); (392733.5, 3747870.8, 27.6, 27.6, 2.0);
(391927.6, 3747940.8, 29.0, 29.0, 2.0); (391927.8, 3747987.4, 29.0, 29.0, 2.0);
(391941.0, 3748045.5, 29.0, 29.0, 2.0); (391926.8, 3748083.3, 29.0, 29.0, 2.0);
(391928.4, 3748118.6, 29.0, 29.0, 2.0); (391927.6, 3748149.1, 29.0, 29.0, 2.0);
(391892.5, 3747904.7, 29.0, 29.0, 2.0); (391892.0, 3747917.8, 29.0, 29.0, 2.0);
(391891.1, 3747931.7, 29.0, 29.0, 2.0); (391885.3, 3747943.0, 29.0, 29.0, 2.0);
(391893.3, 3747955.0, 29.0, 29.0, 2.0); (391893.8, 3747978.6, 29.0, 29.0, 2.0);
(391893.0, 3747994.4, 29.0, 29.0, 2.0); (391885.8, 3748035.6, 29.0, 29.0, 2.0);
(391893.8, 3748088.4, 29.0, 29.0, 2.0); (391894.6, 3748143.8, 29.0, 29.0, 2.0);
(391894.1, 3748120.5, 29.0, 29.0, 2.0); (391894.6, 3748155.3, 29.0, 29.0, 2.0);
(391891.1, 3748182.9, 29.0, 29.0, 2.0); (391893.0, 3748196.0, 29.0, 29.0, 2.0);
(391927.3, 3748191.7, 29.0, 29.0, 2.0); (391928.6,

3748236.1, 29.0, 29.0, 2.0);
(391928.6, 3748260.0, 29.0, 29.0, 2.0); (391894.4,
3748207.5, 29.0, 29.0, 2.0);
(391891.1, 3748220.1, 29.0, 29.0, 2.0); (391891.1,
3748231.1, 29.0, 29.0, 2.0);
(391891.1, 3748243.4, 29.0, 29.0, 2.0); (391891.1,
3748255.7, 29.0, 29.0, 2.0);
(391895.2, 3748287.0, 29.0, 29.0, 2.0); (391895.4,
3748311.1, 29.0, 29.0, 2.0);
(391886.1, 3748326.9, 29.0, 29.0, 2.0); (391893.8,
3748337.1, 29.0, 29.0, 2.0);
(391896.5, 3748354.0, 29.0, 29.0, 2.0); (391943.5,
3748329.0, 29.0, 29.0, 2.0);
(391942.1, 3748346.0, 29.0, 29.0, 2.0); (391935.3,
3748361.9, 29.0, 29.0, 2.0);
(391897.0, 3748404.4, 29.0, 29.0, 2.0); (391938.9,
3748376.1, 29.0, 29.0, 2.0);
(391932.5, 3748387.6, 29.0, 29.0, 2.0); (391891.7,
3748427.3, 29.0, 29.0, 2.0);
(391929.1, 3748405.4, 29.0, 29.0, 2.0); (391929.4,
3748424.2, 29.0, 29.0, 2.0);
(391929.7, 3748439.2, 29.0, 29.0, 2.0); (391928.7,
3748454.6, 29.0, 29.0, 2.0);
(391897.0, 3748453.1, 29.0, 29.0, 2.0); (391866.1,
3747496.0, 29.0, 29.0, 2.0);
(391854.5, 3747480.5, 29.0, 29.0, 2.0); (391855.5,
3747526.9, 29.0, 29.0, 2.0);
(391854.2, 3747514.0, 29.0, 29.0, 2.0); (391855.2,
3747538.9, 29.0, 29.0, 2.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391855.5, 3747549.8, 29.0, 29.0, 2.0); (392423.8,
3747240.4, 29.0, 29.0, 2.0);
(391889.9, 3747651.9, 29.0, 29.0, 2.0); (391854.0,
3747577.0, 29.0, 29.0, 2.0);
(391854.2, 3747603.1, 29.0, 29.0, 2.0); (391855.0,
3747615.6, 29.0, 29.0, 2.0);
(391855.6, 3747626.4, 29.0, 29.0, 2.0); (391854.1,
3747455.5, 29.0, 29.0, 2.0);
(391853.4, 3747443.5, 29.0, 29.0, 2.0); (391888.7,
3747380.1, 29.0, 29.0, 2.0);
(391853.6, 3747430.3, 29.0, 29.0, 2.0); (391842.3,
3747485.1, 29.0, 29.0, 2.0);
(391705.1, 3747221.2, 29.0, 29.0, 2.0); (391890.3,
3747198.7, 29.0, 29.0, 2.0);
(391791.8, 3747248.3, 29.0, 29.0,
2.0);

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***

(1=YES; 0=NO)

```
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file:
KLGB_V9_ADJU\KLGB_v9.SFC Met
Version: 16216
Profile file:
KLGB_V9_ADJU\KLGB_v9.PFL
Surface format:
FREE

Profile format:
FREE

Surface station no.: 23129 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	-5.3	0.094	-9.000	-9.000	-999.	70.	14.3	0.10	2.68	1.00	1.13	322.	7.9	282.0	2.0
12	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	2.68	1.00	0.00	0.	7.9	281.4	2.0
12	01	01	1	03	-2.5	0.068	-9.000	-9.000	-999.	43.	11.4	0.10	2.68	1.00	0.74	79.	7.9	280.9	2.0
12	01	01	1	04	-3.2	0.075	-9.000	-9.000	-999.	49.	11.7	0.10	2.68	1.00	0.86				

```
137.    7.9  280.9    2.0
12 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.10   2.68   1.00    0.00
0.    7.9  280.4    2.0
12 01 01   1 06   -5.2  0.093 -9.000 -9.000 -999.   68.     14.0  0.10   2.68   1.00    1.11
92.    7.9  279.9    2.0
12 01 01   1 07   -2.3  0.066 -9.000 -9.000 -999.   41.     11.5  0.10   2.68   1.00    0.69
67.    7.9  278.8    2.0
12 01 01   1 08   -1.7  0.060 -9.000 -9.000 -999.   36.     11.4  0.10   2.68   0.54    0.65
91.    7.9  279.9    2.0
12 01 01   1 09   36.2 -9.000 -9.000 -9.000   37. -999. -99999.0  0.10   2.68   0.31    0.00
0.    7.9  283.8    2.0
12 01 01   1 10  108.4  0.139  0.707  0.009  119.  124.     -2.3  0.10   2.68   0.24    0.92
319.    7.9  287.5    2.0
12 01 01   1 11  160.5  0.114  1.137  0.005  334.   93.     -1.0  0.10   2.68   0.21    0.62
23.    7.9  292.5    2.0
12 01 01   1 12  186.7  0.125  1.473  0.005  623.  105.     -1.0  0.10   2.68   0.20    0.69
18.    7.9  295.4    2.0
12 01 01   1 13  186.8  0.130  1.761  0.005 1065.  112.     -1.1  0.10   2.68   0.20    0.74
250.    7.9  297.5    2.0
12 01 01   1 14  161.7  0.150  1.834  0.005 1387.  139.     -1.9  0.10   2.68   0.21    0.96
347.    7.9  300.4    2.0
12 01 01   1 15  105.5  0.243  1.633  0.005 1499.  288.    -12.4  0.10   2.68   0.24    2.11
194.    7.9  295.9    2.0
12 01 01   1 16   32.4  0.211  1.109  0.005 1530.  233.    -26.3  0.10   2.68   0.33    1.98
186.    7.9  295.4    2.0
12 01 01   1 17  -20.5  0.250 -9.000 -9.000 -999.  300.     69.2  0.10   2.68   0.60    2.81
293.    7.9  291.4    2.0
12 01 01   1 18  -25.4  0.257 -9.000 -9.000 -999.  313.     72.8  0.10   2.68   1.00    2.90
301.    7.9  288.1    2.0
12 01 01   1 19  -21.0  0.211 -9.000 -9.000 -999.  233.     49.0  0.10   2.68   1.00    2.40
313.    7.9  286.4    2.0
12 01 01   1 20  -25.7  0.258 -9.000 -9.000 -999.  315.     73.3  0.10   2.68   1.00    2.91
302.    7.9  286.4    2.0
12 01 01   1 21  -22.5  0.225 -9.000 -9.000 -999.  256.     55.7  0.10   2.68   1.00    2.55
306.    7.9  285.4    2.0
12 01 01   1 22   -9.3  0.126 -9.000 -9.000 -999.  111.     19.5  0.10   2.68   1.00    1.48
284.    7.9  285.9    2.0
12 01 01   1 23  -21.4  0.214 -9.000 -9.000 -999.  237.     50.3  0.10   2.68   1.00    2.43
282.    7.9  285.4    2.0
12 01 01   1 24  -30.1  0.300 -9.000 -9.000 -999.  394.     98.9  0.10   2.68   1.00    3.36
300.    7.9  284.2    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  322.    1.13   282.1   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        14:32:08

                      PAGE   9
 *** 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        , 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_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391891.24	3747480.41	0.17748	(12121624)	391892.01	3747456.00	0.14106	(12121624)
391965.04	3747447.61	0.22135c	(12122924)	391925.38	3747447.61	0.18079c	(12122924)
392089.38	3747454.66	0.31092c	(12122524)	392112.83	3747454.85	0.31544c	(12122524)
392033.31	3747443.03	0.23925c	(12122524)	392142.39	3747442.46	0.25550c	(12122524)
392336.71	3747437.69	0.13080	(13122724)	392429.96	3747448.18	0.06739	(13040124)
392412.42	3747555.73	0.07088	(15040624)	392343.77	3747480.03	0.13378	(16101624)
392217.30	3747461.24	0.35007c	(12122524)	392161.48	3747408.94	0.16184m	(15020724)
391879.25	3747513.22	0.17001	(12121624)	391891.65	3747546.98	0.20166	(14121624)
391891.84	3747573.68	0.20046	(14121624)	391884.40	3747601.90	0.17002	(12112924)
391891.08	3747641.76	0.14835	(12112924)	391889.35	3747663.46	0.12168	(12112924)
391883.45	3747699.92	0.08711	(12112924)	391881.92	3747730.82	0.07297	(13043024)
391884.40	3747754.47	0.06707	(13043024)	391885.36	3747780.40	0.06103	(16061124)
391883.83	3747768.01	0.06327	(13043024)	391493.56	3748488.26	0.00863	(14083124)
391947.12	3747875.71	0.05073	(16061124)	391983.08	3747875.94	0.05097	(16061124)
391885.46	3747791.74	0.05887	(16061124)	391889.32	3747804.03	0.05762	(16061124)
391887.50	3747815.86	0.05502	(16061124)	391874.76	3747826.10	0.05044	(16061124)
391892.74	3747852.04	0.05002	(16061124)	391892.51	3747880.49	0.04578	(16061124)
392032.89	3747873.67	0.05106	(12041924)	392140.29	3747873.36	0.05068	(16051624)
392233.52	3747864.86	0.04795	(14052424)	392523.19	3747518.42	0.04270	(16101624)
392655.00	3747574.84	0.02503	(15040624)	392733.47	3747870.77	0.01297	(12110824)
391927.56	3747940.84	0.03980	(16061124)	391927.83	3747987.42	0.03424	(16061124)
391940.95	3748045.52	0.02842	(16061124)	391926.76	3748083.27	0.02556	(16061124)
391928.37	3748118.62	0.02349	(12041924)	391927.56	3748149.14	0.02198	(12041924)
391892.49	3747904.69	0.04256	(16061124)	391891.96	3747917.81	0.04090	(16061124)
391891.15	3747931.74	0.03921	(16061124)	391885.26	3747942.98	0.03757	(16061124)
391893.29	3747955.03	0.03679	(16061124)	391893.83	3747978.59	0.03441	(16061124)
391893.03	3747994.39	0.03288	(16061124)	391885.80	3748035.62	0.02917	(16061124)
391893.83	3748088.36	0.02540	(16061124)	391894.63	3748143.78	0.02192	(16061124)

391894.10 3748120.49 0.02331 (16061124) 391894.63
3748155.30 0.02127 (16061124)
391891.15 3748182.87 0.01984 (16061124) 391893.03
3748195.99 0.01925 (12041924)
391927.30 3748191.71 0.02012 (12041924) 391928.64
3748236.15 0.01843 (12041924)
391928.64 3748259.98 0.01759 (12041924) 391894.37
3748207.50 0.01888 (12041924)
391891.15 3748220.09 0.01838 (12041924) 391891.15
3748231.06 0.01802 (12041924)
391891.15 3748243.38 0.01763 (12041924) 391891.15
3748255.70 0.01724 (12041924)
391895.17 3748287.02 0.01638 (12041924) 391895.44
3748311.12 0.01572 (12041924)
391886.07 3748326.91 0.01519 (12041924) 391893.83
3748337.09 0.01502 (12041924)
391896.46 3748353.98 0.01462 (12041924) 391943.47
3748329.02 0.01547 (12041924)
391942.12 3748346.05 0.01499 (12041924) 391935.35
3748361.91 0.01457 (12041924)
391897.02 3748404.40 0.01345 (12041924) 391938.93
3748376.12 0.01420 (12041924)
391932.47 3748387.64 0.01392 (12041924) 391891.74
3748427.33 0.01294 (12041924)

*** 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 , 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_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391929.07	3748405.45	0.01350	(12041924)	391929.40	3748424.21	0.01307	(12041924)
391929.73	3748439.17	0.01274	(12041924)	391928.74	3748454.63	0.01242	(12041924)
391897.00	3748453.15	0.01244	(12041924)	391866.08	3747495.99	0.14567	(12121624)
391854.46	3747480.49	0.12475	(12121624)	391855.46	3747526.86	0.13637	(14121624)
391854.21	3747513.99	0.13269	(12121624)	391855.21	3747538.86	0.13824	(14121624)
391855.46	3747549.85	0.13926	(14121624)	392423.79	3747240.43	0.04413	(16122724)
391889.87	3747651.95	0.13483	(12112924)	391853.95	3747577.01	0.13206	(14121624)

391854.20 3747603.13 0.11932 (12112924) 391854.95
3747615.63 0.11642 (12112924)
391855.57 3747626.38 0.11273 (12112924) 391854.14
3747455.54 0.10740 (12121624)
391853.42 3747443.48 0.09784 (12121624) 391888.71
3747380.11 0.07831c (12122924)
391853.60 3747430.34 0.08860 (12121624) 391842.26
3747485.07 0.11462 (12121624)
391705.13 3747221.17 0.02355c (12122924) 391890.27
3747198.72 0.03028c (12122924)
391791.77 3747248.29 0.03123c
(12122924)

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	0.35007c ON 12122524:	AT (392217.30, 3747461.24, 29.00, 29.00, 2.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** 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 1017 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 747 Calm Hours Identified

A Total of 270 Missing Hours Identified (0.62 Percent)

******** FATAL ERROR MESSAGES ********

*** NONE ***

******** WARNING MESSAGES ********

ME W186 128 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used 0.50

ME W187 128 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

****

*** AERMOD Finishes Successfully ***

****

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**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/7/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Proj PM25\14715 Ops
Proj PM25.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID PM_2.5
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Proj PM25.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
```

```
   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL2         0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL3         0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL4         0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL5         0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL6         0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL7         0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL8         0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL9         0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL10        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL11        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL12        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL13        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL14        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL15        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL16        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL17        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL18        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL19        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL20        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL21        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL22        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL23        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL24        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL25        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL26        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL27        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL28        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL29        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL30        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL31        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL32        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL33        0.0000302395     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Proj PM25.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
```

```
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "14715 OPS PROJ PM25.AD\24H1GALL.PLT" 31
   SUMMFILE "14715 Ops Proj PM25.sum"
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/7/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Proj PM25\14715 Ops
Proj PM25.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID PM_2.5
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Proj PM25.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
```

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   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL2         0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL3         0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL4         0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL5         0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL6         0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL7         0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL8         0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL9         0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL10        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL11        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL12        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL13        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL14        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL15        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL16        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL17        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL18        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL19        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL20        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL21        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL22        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL23        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL24        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL25        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL26        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL27        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL28        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL29        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL30        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL31        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL32        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL33        0.0000302395     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Proj PM25.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
```

```
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "14715 OPS PROJ PM25.AD\24H1GALL.PLT" 31
   SUMMFILE "14715 Ops Proj 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     128       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     128       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 *********************************
 *** SETUP Finishes Successfully ***
 *********************************

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        14:50:19

                      PAGE   1
 *** 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    33 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   9818605.0 ;  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:     33 Source(s);       1 Source Group(s); and     105 Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:     33 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) =    10.00 ;  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:   14715 Ops Proj
 PM25.err
 **File for Summary of Results:   14715 Ops Proj
 PM25.sum
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       14:50:19

                      PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.
              URBAN  EMISSION RATE
  SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ
  SOURCE  SCALAR VARY
    ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

- - - - - - - - - - - - -

VOL1	0	0.30240E-04	391943.2	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL2	0	0.30240E-04	391988.3	3747611.1	29.0	5.00	10.44	1.40
YES								
VOL3	0	0.30240E-04	392033.2	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL4	0	0.30240E-04	392078.1	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL5	0	0.30240E-04	392122.7	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL6	0	0.30240E-04	392167.6	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL7	0	0.30240E-04	392175.8	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL8	0	0.30240E-04	392175.0	3747565.7	29.0	5.00	10.44	1.40
YES								
VOL9	0	0.30240E-04	392129.7	3747566.0	29.0	5.00	10.44	1.40
YES								
VOL10	0	0.30240E-04	392084.7	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL11	0	0.30240E-04	392040.2	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL12	0	0.30240E-04	391995.7	3747566.3	29.0	5.00	10.44	1.40
YES								
VOL13	0	0.30240E-04	391951.4	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL14	0	0.30240E-04	391942.7	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL15	0	0.30240E-04	391942.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL16	0	0.30240E-04	391987.4	3747522.1	29.0	5.00	10.44	1.40
YES								
VOL17	0	0.30240E-04	392031.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL18	0	0.30240E-04	392076.4	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL19	0	0.30240E-04	392121.3	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL20	0	0.30240E-04	392165.8	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL21	0	0.30240E-04	392210.9	3747521.2	29.0	5.00	10.44	1.40
YES								
VOL22	0	0.30240E-04	392219.6	3747557.0	29.0	5.00	10.44	1.40
YES								
VOL23	0	0.30240E-04	392237.2	3747556.6	29.0	5.00	10.44	1.40
YES								
VOL24	0	0.30240E-04	392256.9	3747546.6	29.0	5.00	10.44	1.40
YES								
VOL25	0	0.30240E-04	392256.5	3747502.1	29.0	5.00	10.44	1.40
YES								
VOL26	0	0.30240E-04	392256.3	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL27	0	0.30240E-04	392211.2	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL28	0	0.30240E-04	392167.1	3747484.7	29.0	5.00	10.44	1.40
YES								
VOL29	0	0.30240E-04	392122.1	3747484.9	29.0	5.00	10.44	1.40
YES								
VOL30	0	0.30240E-04	392076.7	3747485.0	29.0	5.00	10.44	1.40
YES								
VOL31	0	0.30240E-04	392032.1	3747485.2	29.0	5.00	10.44	1.40
YES								
VOL32	0	0.30240E-04	391987.1	3747485.9	29.0	5.00	10.44	1.40
YES								

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
9818605.	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 ,

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391891.2, 3747480.4, 29.0, 29.0, 2.0); (391892.0, 3747456.0, 29.0, 29.0, 2.0);
(391965.0, 3747447.6, 29.0, 29.0, 2.0); (391925.4, 3747447.6, 29.0, 29.0, 2.0);
(392089.4, 3747454.7, 29.0, 29.0, 2.0); (392112.8, 3747454.8, 29.0, 29.0, 2.0);
(392033.3, 3747443.0, 29.0, 29.0, 2.0); (392142.4, 3747442.5, 29.0, 29.0, 2.0);
(392336.7, 3747437.7, 29.0, 29.0, 2.0); (392430.0, 3747448.2, 29.0, 29.0, 2.0);
(392412.4, 3747555.7, 29.0, 29.0, 2.0); (392343.8, 3747480.0, 29.0, 29.0, 2.0);
(392217.3, 3747461.2, 29.0, 29.0, 2.0); (392161.5, 3747408.9, 29.0, 29.0, 2.0);
(391879.2, 3747513.2, 29.0, 29.0, 2.0); (391891.6, 3747547.0, 29.0, 29.0, 2.0);
(391891.8, 3747573.7, 29.0, 29.0, 2.0); (391884.4, 3747601.9, 29.0, 29.0, 2.0);
(391891.1, 3747641.8, 29.0, 29.0, 2.0); (391889.3, 3747663.5, 29.0, 29.0, 2.0);
(391883.5, 3747699.9, 29.0, 29.0, 2.0); (391881.9, 3747730.8, 29.0, 29.0, 2.0);
(391884.4, 3747754.5, 29.0, 29.0, 2.0); (391885.4, 3747780.4, 29.0, 29.0, 2.0);
(391883.8, 3747768.0, 29.0, 29.0, 2.0); (391493.6, 3748488.3, 29.0, 29.0, 2.0);
(391947.1, 3747875.7, 29.0, 29.0, 2.0); (391983.1, 3747875.9, 29.0, 29.0, 2.0);
(391885.5, 3747791.7, 29.0, 29.0, 2.0); (391889.3, 3747804.0, 29.0, 29.0, 2.0);
(391887.5, 3747815.9, 29.0, 29.0, 2.0); (391874.8, 3747826.1, 29.0, 29.0, 2.0);
(391892.7, 3747852.0, 29.0, 29.0, 2.0); (391892.5, 3747880.5, 29.0, 29.0, 2.0);
(392032.9, 3747873.7, 29.0, 29.0, 2.0); (392140.3, 3747873.4, 29.0, 29.0, 2.0);
(392233.5, 3747864.9, 29.0, 29.0, 2.0); (392523.2, 3747518.4, 28.3, 28.3, 2.0);
(392655.0, 3747574.8, 28.0, 28.0, 2.0); (392733.5, 3747870.8, 27.6, 27.6, 2.0);
(391927.6, 3747940.8, 29.0, 29.0, 2.0); (391927.8, 3747987.4, 29.0, 29.0, 2.0);
(391941.0, 3748045.5, 29.0, 29.0, 2.0); (391926.8, 3748083.3, 29.0, 29.0, 2.0);
(391928.4, 3748118.6, 29.0, 29.0, 2.0); (391927.6, 3748149.1, 29.0, 29.0, 2.0);
(391892.5, 3747904.7, 29.0, 29.0, 2.0); (391892.0, 3747917.8, 29.0, 29.0, 2.0);
(391891.1, 3747931.7, 29.0, 29.0, 2.0); (391885.3, 3747943.0, 29.0, 29.0, 2.0);
(391893.3, 3747955.0, 29.0, 29.0, 2.0); (391893.8, 3747978.6, 29.0, 29.0, 2.0);
(391893.0, 3747994.4, 29.0, 29.0, 2.0); (391885.8, 3748035.6, 29.0, 29.0, 2.0);
(391893.8, 3748088.4, 29.0, 29.0, 2.0); (391894.6, 3748143.8, 29.0, 29.0, 2.0);
(391894.1, 3748120.5, 29.0, 29.0, 2.0); (391894.6, 3748155.3, 29.0, 29.0, 2.0);
(391891.1, 3748182.9, 29.0, 29.0, 2.0); (391893.0, 3748196.0, 29.0, 29.0, 2.0);
(391927.3, 3748191.7, 29.0, 29.0, 2.0); (391928.6,

3748236.1, 29.0, 29.0, 2.0);
(391928.6, 3748260.0, 29.0, 29.0, 2.0); (391894.4,
3748207.5, 29.0, 29.0, 2.0);
(391891.1, 3748220.1, 29.0, 29.0, 2.0); (391891.1,
3748231.1, 29.0, 29.0, 2.0);
(391891.1, 3748243.4, 29.0, 29.0, 2.0); (391891.1,
3748255.7, 29.0, 29.0, 2.0);
(391895.2, 3748287.0, 29.0, 29.0, 2.0); (391895.4,
3748311.1, 29.0, 29.0, 2.0);
(391886.1, 3748326.9, 29.0, 29.0, 2.0); (391893.8,
3748337.1, 29.0, 29.0, 2.0);
(391896.5, 3748354.0, 29.0, 29.0, 2.0); (391943.5,
3748329.0, 29.0, 29.0, 2.0);
(391942.1, 3748346.0, 29.0, 29.0, 2.0); (391935.3,
3748361.9, 29.0, 29.0, 2.0);
(391897.0, 3748404.4, 29.0, 29.0, 2.0); (391938.9,
3748376.1, 29.0, 29.0, 2.0);
(391932.5, 3748387.6, 29.0, 29.0, 2.0); (391891.7,
3748427.3, 29.0, 29.0, 2.0);
(391929.1, 3748405.4, 29.0, 29.0, 2.0); (391929.4,
3748424.2, 29.0, 29.0, 2.0);
(391929.7, 3748439.2, 29.0, 29.0, 2.0); (391928.7,
3748454.6, 29.0, 29.0, 2.0);
(391897.0, 3748453.1, 29.0, 29.0, 2.0); (391866.1,
3747496.0, 29.0, 29.0, 2.0);
(391854.5, 3747480.5, 29.0, 29.0, 2.0); (391855.5,
3747526.9, 29.0, 29.0, 2.0);
(391854.2, 3747514.0, 29.0, 29.0, 2.0); (391855.2,
3747538.9, 29.0, 29.0, 2.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391855.5, 3747549.8, 29.0, 29.0, 2.0); (392423.8,
3747240.4, 29.0, 29.0, 2.0);
(391889.9, 3747651.9, 29.0, 29.0, 2.0); (391854.0,
3747577.0, 29.0, 29.0, 2.0);
(391854.2, 3747603.1, 29.0, 29.0, 2.0); (391855.0,
3747615.6, 29.0, 29.0, 2.0);
(391855.6, 3747626.4, 29.0, 29.0, 2.0); (391854.1,
3747455.5, 29.0, 29.0, 2.0);
(391853.4, 3747443.5, 29.0, 29.0, 2.0); (391888.7,
3747380.1, 29.0, 29.0, 2.0);
(391853.6, 3747430.3, 29.0, 29.0, 2.0); (391842.3,
3747485.1, 29.0, 29.0, 2.0);
(391705.1, 3747221.2, 29.0, 29.0, 2.0); (391890.3,
3747198.7, 29.0, 29.0, 2.0);
(391791.8, 3747248.3, 29.0, 29.0,
2.0);

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***

(1=YES; 0=NO)

```
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file:
KLGB_V9_ADJU\KLGB_v9.SFC Met
Version: 16216
Profile file:
KLGB_V9_ADJU\KLGB_v9.PFL
Surface format:
FREE

Profile format:
FREE

Surface station no.: 23129 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	-5.3	0.094	-9.000	-9.000	-999.	70.	14.3	0.10	2.68	1.00	1.13	322.	7.9	282.0	2.0
12	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	2.68	1.00	0.00	0.	7.9	281.4	2.0
12	01	01	1	03	-2.5	0.068	-9.000	-9.000	-999.	43.	11.4	0.10	2.68	1.00	0.74	79.	7.9	280.9	2.0
12	01	01	1	04	-3.2	0.075	-9.000	-9.000	-999.	49.	11.7	0.10	2.68	1.00	0.86				

```
137.    7.9  280.9    2.0
12 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.10   2.68   1.00    0.00
0.    7.9  280.4    2.0
12 01 01   1 06   -5.2  0.093 -9.000 -9.000 -999.   68.     14.0  0.10   2.68   1.00    1.11
92.    7.9  279.9    2.0
12 01 01   1 07   -2.3  0.066 -9.000 -9.000 -999.   41.     11.5  0.10   2.68   1.00    0.69
67.    7.9  278.8    2.0
12 01 01   1 08   -1.7  0.060 -9.000 -9.000 -999.   36.     11.4  0.10   2.68   0.54    0.65
91.    7.9  279.9    2.0
12 01 01   1 09   36.2 -9.000 -9.000 -9.000   37. -999. -99999.0  0.10   2.68   0.31    0.00
0.    7.9  283.8    2.0
12 01 01   1 10  108.4  0.139  0.707  0.009  119.  124.     -2.3  0.10   2.68   0.24    0.92
319.    7.9  287.5    2.0
12 01 01   1 11  160.5  0.114  1.137  0.005  334.   93.     -1.0  0.10   2.68   0.21    0.62
23.    7.9  292.5    2.0
12 01 01   1 12  186.7  0.125  1.473  0.005  623.  105.     -1.0  0.10   2.68   0.20    0.69
18.    7.9  295.4    2.0
12 01 01   1 13  186.8  0.130  1.761  0.005 1065.  112.     -1.1  0.10   2.68   0.20    0.74
250.    7.9  297.5    2.0
12 01 01   1 14  161.7  0.150  1.834  0.005 1387.  139.     -1.9  0.10   2.68   0.21    0.96
347.    7.9  300.4    2.0
12 01 01   1 15  105.5  0.243  1.633  0.005 1499.  288.    -12.4  0.10   2.68   0.24    2.11
194.    7.9  295.9    2.0
12 01 01   1 16   32.4  0.211  1.109  0.005 1530.  233.    -26.3  0.10   2.68   0.33    1.98
186.    7.9  295.4    2.0
12 01 01   1 17  -20.5  0.250 -9.000 -9.000 -999.  300.     69.2  0.10   2.68   0.60    2.81
293.    7.9  291.4    2.0
12 01 01   1 18  -25.4  0.257 -9.000 -9.000 -999.  313.     72.8  0.10   2.68   1.00    2.90
301.    7.9  288.1    2.0
12 01 01   1 19  -21.0  0.211 -9.000 -9.000 -999.  233.     49.0  0.10   2.68   1.00    2.40
313.    7.9  286.4    2.0
12 01 01   1 20  -25.7  0.258 -9.000 -9.000 -999.  315.     73.3  0.10   2.68   1.00    2.91
302.    7.9  286.4    2.0
12 01 01   1 21  -22.5  0.225 -9.000 -9.000 -999.  256.     55.7  0.10   2.68   1.00    2.55
306.    7.9  285.4    2.0
12 01 01   1 22   -9.3  0.126 -9.000 -9.000 -999.  111.     19.5  0.10   2.68   1.00    1.48
284.    7.9  285.9    2.0
12 01 01   1 23  -21.4  0.214 -9.000 -9.000 -999.  237.     50.3  0.10   2.68   1.00    2.43
282.    7.9  285.4    2.0
12 01 01   1 24  -30.1  0.300 -9.000 -9.000 -999.  394.     98.9  0.10   2.68   1.00    3.36
300.    7.9  284.2    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  322.    1.13   282.1   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***       14:50:19

                      PAGE   9
 *** 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        , 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_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391891.24	3747480.41	0.05835	(12121624)	391892.01	3747456.00	0.04638	(12121624)
391965.04	3747447.61	0.07277c	(12122924)	391925.38	3747447.61	0.05944c	(12122924)
392089.38	3747454.66	0.10222c	(12122524)	392112.83	3747454.85	0.10371c	(12122524)
392033.31	3747443.03	0.07866c	(12122524)	392142.39	3747442.46	0.08400c	(12122524)
392336.71	3747437.69	0.04300	(13122724)	392429.96	3747448.18	0.02215	(13040124)
392412.42	3747555.73	0.02330	(15040624)	392343.77	3747480.03	0.04398	(16101624)
392217.30	3747461.24	0.11509c	(12122524)	392161.48	3747408.94	0.05321m	(15020724)
391879.25	3747513.22	0.05589	(12121624)	391891.65	3747546.98	0.06630	(14121624)
391891.84	3747573.68	0.06590	(14121624)	391884.40	3747601.90	0.05590	(12112924)
391891.08	3747641.76	0.04877	(12112924)	391889.35	3747663.46	0.04000	(12112924)
391883.45	3747699.92	0.02864	(12112924)	391881.92	3747730.82	0.02399	(13043024)
391884.40	3747754.47	0.02205	(13043024)	391885.36	3747780.40	0.02007	(16061124)
391883.83	3747768.01	0.02080	(13043024)	391493.56	3748488.26	0.00284	(14083124)
391947.12	3747875.71	0.01668	(16061124)	391983.08	3747875.94	0.01676	(16061124)
391885.46	3747791.74	0.01935	(16061124)	391889.32	3747804.03	0.01894	(16061124)
391887.50	3747815.86	0.01809	(16061124)	391874.76	3747826.10	0.01658	(16061124)
391892.74	3747852.04	0.01644	(16061124)	391892.51	3747880.49	0.01505	(16061124)
392032.89	3747873.67	0.01679	(12041924)	392140.29	3747873.36	0.01666	(16051624)
392233.52	3747864.86	0.01576	(14052424)	392523.19	3747518.42	0.01404	(16101624)
392655.00	3747574.84	0.00823	(15040624)	392733.47	3747870.77	0.00426	(12110824)
391927.56	3747940.84	0.01309	(16061124)	391927.83	3747987.42	0.01126	(16061124)
391940.95	3748045.52	0.00934	(16061124)	391926.76	3748083.27	0.00840	(16061124)
391928.37	3748118.62	0.00772	(12041924)	391927.56	3748149.14	0.00723	(12041924)
391892.49	3747904.69	0.01399	(16061124)	391891.96	3747917.81	0.01345	(16061124)
391891.15	3747931.74	0.01289	(16061124)	391885.26	3747942.98	0.01235	(16061124)
391893.29	3747955.03	0.01209	(16061124)	391893.83	3747978.59	0.01131	(16061124)
391893.03	3747994.39	0.01081	(16061124)	391885.80	3748035.62	0.00959	(16061124)
391893.83	3748088.36	0.00835	(16061124)	391894.63	3748143.78	0.00721	(16061124)

391894.10 3748120.49 0.00766 (16061124) 391894.63
3748155.30 0.00699 (16061124)
391891.15 3748182.87 0.00652 (16061124) 391893.03
3748195.99 0.00633 (12041924)
391927.30 3748191.71 0.00662 (12041924) 391928.64
3748236.15 0.00606 (12041924)
391928.64 3748259.98 0.00578 (12041924) 391894.37
3748207.50 0.00621 (12041924)
391891.15 3748220.09 0.00604 (12041924) 391891.15
3748231.06 0.00592 (12041924)
391891.15 3748243.38 0.00579 (12041924) 391891.15
3748255.70 0.00567 (12041924)
391895.17 3748287.02 0.00539 (12041924) 391895.44
3748311.12 0.00517 (12041924)
391886.07 3748326.91 0.00499 (12041924) 391893.83
3748337.09 0.00494 (12041924)
391896.46 3748353.98 0.00481 (12041924) 391943.47
3748329.02 0.00509 (12041924)
391942.12 3748346.05 0.00493 (12041924) 391935.35
3748361.91 0.00479 (12041924)
391897.02 3748404.40 0.00442 (12041924) 391938.93
3748376.12 0.00467 (12041924)
391932.47 3748387.64 0.00458 (12041924) 391891.74
3748427.33 0.00425 (12041924)

*** 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 , 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_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391929.07	3748405.45	0.00444	(12041924)	391929.40	3748424.21	0.00430	(12041924)
391929.73	3748439.17	0.00419	(12041924)	391928.74	3748454.63	0.00408	(12041924)
391897.00	3748453.15	0.00409	(12041924)	391866.08	3747495.99	0.04789	(12121624)
391854.46	3747480.49	0.04101	(12121624)	391855.46	3747526.86	0.04483	(14121624)
391854.21	3747513.99	0.04362	(12121624)	391855.21	3747538.86	0.04545	(14121624)
391855.46	3747549.85	0.04579	(14121624)	392423.79	3747240.43	0.01451	(16122724)
391889.87	3747651.95	0.04433	(12112924)	391853.95	3747577.01	0.04342	(14121624)

391854.20 3747603.13 0.03923 (12112924) 391854.95
3747615.63 0.03828 (12112924)
391855.57 3747626.38 0.03706 (12112924) 391854.14
3747455.54 0.03531 (12121624)
391853.42 3747443.48 0.03217 (12121624) 391888.71
3747380.11 0.02574c (12122924)
391853.60 3747430.34 0.02913 (12121624) 391842.26
3747485.07 0.03768 (12121624)
391705.13 3747221.17 0.00774c (12122924) 391890.27
3747198.72 0.00995c (12122924)
391791.77 3747248.29 0.01027c
(12122924)

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	0.11509c ON 12122524:	AT (392217.30, 3747461.24, 29.00, 29.00, 2.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** 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 1017 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 747 Calm Hours Identified

A Total of 270 Missing Hours Identified (0.62 Percent)

******** FATAL ERROR MESSAGES ********

*** NONE ***

******** WARNING MESSAGES ********

ME W186 128 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used 0.50

ME W187 128 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

****

*** AERMOD Finishes Successfully ***

****

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**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/6/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt1 CO\14715 Ops
Alt1 CO.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 1 8
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID CO
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt1 CO.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
```

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   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL2         0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL3         0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL4         0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL5         0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL6         0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL7         0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL8         0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL9         0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL10        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL11        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL12        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL13        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL14        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL15        0.0064170721     5.000    10.435     1.400
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   SRCPARAM VOL17        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL18        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL19        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL20        0.0064170721     5.000    10.435     1.400
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   SRCPARAM VOL22        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL23        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL24        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL25        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL26        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL27        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL28        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL29        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL30        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL31        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL32        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL33        0.0064170721     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Alt1 CO.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
```

```
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 8 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14715 OPS ALT1 CO.AD\01H1GALL.PLT" 31
   PLOTFILE 8 ALL 1ST "14715 OPS ALT1 CO.AD\08H1GALL.PLT" 32
   SUMMFILE "14715 Ops Alt1 CO.sum"
OU FINISHED
**
**************************************
** Project Parameters
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** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**
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** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/6/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt1 CO\14715 Ops
Alt1 CO.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 1 8
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID CO
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt1 CO.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
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   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL2         0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL3         0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL4         0.0064170721     5.000    10.435     1.400
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   SRCPARAM VOL6         0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL7         0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL8         0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL9         0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL10        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL11        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL12        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL13        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL14        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL15        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL16        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL17        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL18        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL19        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL20        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL21        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL22        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL23        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL24        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL25        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL26        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL27        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL28        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL29        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL30        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL31        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL32        0.0064170721     5.000    10.435     1.400
   SRCPARAM VOL33        0.0064170721     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Alt1 CO.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
```

```
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 8 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14715 OPS ALT1 CO.AD\01H1GALL.PLT" 31
   PLOTFILE 8 ALL 1ST "14715 OPS ALT1 CO.AD\08H1GALL.PLT" 32
   SUMMFILE "14715 Ops Alt1 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     128       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     128       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 **********************************
 *** SETUP Finishes Successfully ***
 **********************************

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/06/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       10:03:57

                      PAGE   1
 *** 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    33 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   9818605.0 ;  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:     33 Source(s);       1 Source Group(s); and     105 Receptor(s)

               with:      0 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:     33 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) =    10.00 ;  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:   14715 Ops Alt1
 CO.err
 **File for Summary of Results:   14715 Ops Alt1
 CO.sum
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/06/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       10:03:57

                      PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.
              URBAN  EMISSION RATE
  SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ
  SOURCE  SCALAR VARY
    ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
```

(METERS) BY

VOL1	0	0.64171E-02	391943.2	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL2	0	0.64171E-02	391988.3	3747611.1	29.0	5.00	10.44	1.40
YES								
VOL3	0	0.64171E-02	392033.2	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL4	0	0.64171E-02	392078.1	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL5	0	0.64171E-02	392122.7	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL6	0	0.64171E-02	392167.6	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL7	0	0.64171E-02	392175.8	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL8	0	0.64171E-02	392175.0	3747565.7	29.0	5.00	10.44	1.40
YES								
VOL9	0	0.64171E-02	392129.7	3747566.0	29.0	5.00	10.44	1.40
YES								
VOL10	0	0.64171E-02	392084.7	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL11	0	0.64171E-02	392040.2	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL12	0	0.64171E-02	391995.7	3747566.3	29.0	5.00	10.44	1.40
YES								
VOL13	0	0.64171E-02	391951.4	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL14	0	0.64171E-02	391942.7	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL15	0	0.64171E-02	391942.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL16	0	0.64171E-02	391987.4	3747522.1	29.0	5.00	10.44	1.40
YES								
VOL17	0	0.64171E-02	392031.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL18	0	0.64171E-02	392076.4	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL19	0	0.64171E-02	392121.3	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL20	0	0.64171E-02	392165.8	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL21	0	0.64171E-02	392210.9	3747521.2	29.0	5.00	10.44	1.40
YES								
VOL22	0	0.64171E-02	392219.6	3747557.0	29.0	5.00	10.44	1.40
YES								
VOL23	0	0.64171E-02	392237.2	3747556.6	29.0	5.00	10.44	1.40
YES								
VOL24	0	0.64171E-02	392256.9	3747546.6	29.0	5.00	10.44	1.40
YES								
VOL25	0	0.64171E-02	392256.5	3747502.1	29.0	5.00	10.44	1.40
YES								
VOL26	0	0.64171E-02	392256.3	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL27	0	0.64171E-02	392211.2	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL28	0	0.64171E-02	392167.1	3747484.7	29.0	5.00	10.44	1.40
YES								
VOL29	0	0.64171E-02	392122.1	3747484.9	29.0	5.00	10.44	1.40
YES								
VOL30	0	0.64171E-02	392076.7	3747485.0	29.0	5.00	10.44	1.40
YES								
VOL31	0	0.64171E-02	392032.1	3747485.2	29.0	5.00	10.44	1.40
YES								

VOL32 0 0.64171E-02 391987.1 3747485.9 29.0 5.00 10.44 1.40
YES
VOL33 0 0.64171E-02 391942.7 3747485.9 29.0 5.00 10.44 1.40
YES

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
	9818605.	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 ,

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391891.2, 3747480.4, 29.0, 29.0, 2.0); (391892.0, 3747456.0, 29.0, 29.0, 2.0);
(391965.0, 3747447.6, 29.0, 29.0, 2.0); (391925.4, 3747447.6, 29.0, 29.0, 2.0);
(392089.4, 3747454.7, 29.0, 29.0, 2.0); (392112.8, 3747454.8, 29.0, 29.0, 2.0);
(392033.3, 3747443.0, 29.0, 29.0, 2.0); (392142.4, 3747442.5, 29.0, 29.0, 2.0);
(392336.7, 3747437.7, 29.0, 29.0, 2.0); (392430.0, 3747448.2, 29.0, 29.0, 2.0);
(392412.4, 3747555.7, 29.0, 29.0, 2.0); (392343.8, 3747480.0, 29.0, 29.0, 2.0);
(392217.3, 3747461.2, 29.0, 29.0, 2.0); (392161.5, 3747408.9, 29.0, 29.0, 2.0);
(391879.2, 3747513.2, 29.0, 29.0, 2.0); (391891.6, 3747547.0, 29.0, 29.0, 2.0);
(391891.8, 3747573.7, 29.0, 29.0, 2.0); (391884.4, 3747601.9, 29.0, 29.0, 2.0);
(391891.1, 3747641.8, 29.0, 29.0, 2.0); (391889.3, 3747663.5, 29.0, 29.0, 2.0);
(391883.5, 3747699.9, 29.0, 29.0, 2.0); (391881.9, 3747730.8, 29.0, 29.0, 2.0);
(391884.4, 3747754.5, 29.0, 29.0, 2.0); (391885.4, 3747780.4, 29.0, 29.0, 2.0);
(391883.8, 3747768.0, 29.0, 29.0, 2.0); (391493.6, 3748488.3, 29.0, 29.0, 2.0);
(391947.1, 3747875.7, 29.0, 29.0, 2.0); (391983.1, 3747875.9, 29.0, 29.0, 2.0);
(391885.5, 3747791.7, 29.0, 29.0, 2.0); (391889.3, 3747804.0, 29.0, 29.0, 2.0);
(391887.5, 3747815.9, 29.0, 29.0, 2.0); (391874.8, 3747826.1, 29.0, 29.0, 2.0);
(391892.7, 3747852.0, 29.0, 29.0, 2.0); (391892.5, 3747880.5, 29.0, 29.0, 2.0);
(392032.9, 3747873.7, 29.0, 29.0, 2.0); (392140.3, 3747873.4, 29.0, 29.0, 2.0);
(392233.5, 3747864.9, 29.0, 29.0, 2.0); (392523.2, 3747518.4, 28.3, 28.3, 2.0);
(392655.0, 3747574.8, 28.0, 28.0, 2.0); (392733.5, 3747870.8, 27.6, 27.6, 2.0);
(391927.6, 3747940.8, 29.0, 29.0, 2.0); (391927.8, 3747987.4, 29.0, 29.0, 2.0);
(391941.0, 3748045.5, 29.0, 29.0, 2.0); (391926.8, 3748083.3, 29.0, 29.0, 2.0);
(391928.4, 3748118.6, 29.0, 29.0, 2.0); (391927.6, 3748149.1, 29.0, 29.0, 2.0);
(391892.5, 3747904.7, 29.0, 29.0, 2.0); (391892.0, 3747917.8, 29.0, 29.0, 2.0);
(391891.1, 3747931.7, 29.0, 29.0, 2.0); (391885.3, 3747943.0, 29.0, 29.0, 2.0);
(391893.3, 3747955.0, 29.0, 29.0, 2.0); (391893.8, 3747978.6, 29.0, 29.0, 2.0);
(391893.0, 3747994.4, 29.0, 29.0, 2.0); (391885.8, 3748035.6, 29.0, 29.0, 2.0);
(391893.8, 3748088.4, 29.0, 29.0, 2.0); (391894.6, 3748143.8, 29.0, 29.0, 2.0);
(391894.1, 3748120.5, 29.0, 29.0, 2.0); (391894.6, 3748155.3, 29.0, 29.0, 2.0);
(391891.1, 3748182.9, 29.0, 29.0, 2.0); (391893.0,

3748196.0, 29.0, 29.0, 2.0);
(391927.3, 3748191.7, 29.0, 29.0, 2.0); (391928.6,
3748236.1, 29.0, 29.0, 2.0);
(391928.6, 3748260.0, 29.0, 29.0, 2.0); (391894.4,
3748207.5, 29.0, 29.0, 2.0);
(391891.1, 3748220.1, 29.0, 29.0, 2.0); (391891.1,
3748231.1, 29.0, 29.0, 2.0);
(391891.1, 3748243.4, 29.0, 29.0, 2.0); (391891.1,
3748255.7, 29.0, 29.0, 2.0);
(391895.2, 3748287.0, 29.0, 29.0, 2.0); (391895.4,
3748311.1, 29.0, 29.0, 2.0);
(391886.1, 3748326.9, 29.0, 29.0, 2.0); (391893.8,
3748337.1, 29.0, 29.0, 2.0);
(391896.5, 3748354.0, 29.0, 29.0, 2.0); (391943.5,
3748329.0, 29.0, 29.0, 2.0);
(391942.1, 3748346.0, 29.0, 29.0, 2.0); (391935.3,
3748361.9, 29.0, 29.0, 2.0);
(391897.0, 3748404.4, 29.0, 29.0, 2.0); (391938.9,
3748376.1, 29.0, 29.0, 2.0);
(391932.5, 3748387.6, 29.0, 29.0, 2.0); (391891.7,
3748427.3, 29.0, 29.0, 2.0);
(391929.1, 3748405.4, 29.0, 29.0, 2.0); (391929.4,
3748424.2, 29.0, 29.0, 2.0);
(391929.7, 3748439.2, 29.0, 29.0, 2.0); (391928.7,
3748454.6, 29.0, 29.0, 2.0);
(391897.0, 3748453.1, 29.0, 29.0, 2.0); (391866.1,
3747496.0, 29.0, 29.0, 2.0);
(391854.5, 3747480.5, 29.0, 29.0, 2.0); (391855.5,
3747526.9, 29.0, 29.0, 2.0);
(391854.2, 3747514.0, 29.0, 29.0, 2.0); (391855.2,
3747538.9, 29.0, 29.0, 2.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391855.5, 3747549.8, 29.0, 29.0, 2.0); (392423.8,
3747240.4, 29.0, 29.0, 2.0);
(391889.9, 3747651.9, 29.0, 29.0, 2.0); (391854.0,
3747577.0, 29.0, 29.0, 2.0);
(391854.2, 3747603.1, 29.0, 29.0, 2.0); (391855.0,
3747615.6, 29.0, 29.0, 2.0);
(391855.6, 3747626.4, 29.0, 29.0, 2.0); (391854.1,
3747455.5, 29.0, 29.0, 2.0);
(391853.4, 3747443.5, 29.0, 29.0, 2.0); (391888.7,
3747380.1, 29.0, 29.0, 2.0);
(391853.6, 3747430.3, 29.0, 29.0, 2.0); (391842.3,
3747485.1, 29.0, 29.0, 2.0);
(391705.1, 3747221.2, 29.0, 29.0, 2.0); (391890.3,
3747198.7, 29.0, 29.0, 2.0);
(391791.8, 3747248.3, 29.0, 29.0,
2.0);

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

```
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file:
KLGB_V9_ADJU\KLGB_v9.SFC Met
Version: 16216
Profile file:
KLGB_V9_ADJU\KLGB_v9.PFL
Surface format:
FREE

Profile format:
FREE

Surface station no.: 23129 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	-5.3	0.094	-9.000	-9.000	-999.	70.	14.3	0.10	2.68	1.00	1.13	322.	7.9	282.0	2.0
12	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	2.68	1.00	0.00	0.	7.9	281.4	2.0
12	01	01	1	03	-2.5	0.068	-9.000	-9.000	-999.	43.	11.4	0.10	2.68	1.00	0.74				

```
 79.    7.9  280.9    2.0
 12 01 01   1 04   -3.2  0.075 -9.000 -9.000 -999.   49.     11.7  0.10   2.68   1.00    0.86
 137.    7.9  280.9    2.0
 12 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.10   2.68   1.00    0.00
 0.    7.9  280.4    2.0
 12 01 01   1 06   -5.2  0.093 -9.000 -9.000 -999.   68.     14.0  0.10   2.68   1.00    1.11
 92.    7.9  279.9    2.0
 12 01 01   1 07   -2.3  0.066 -9.000 -9.000 -999.   41.     11.5  0.10   2.68   1.00    0.69
 67.    7.9  278.8    2.0
 12 01 01   1 08   -1.7  0.060 -9.000 -9.000 -999.   36.     11.4  0.10   2.68   0.54    0.65
 91.    7.9  279.9    2.0
 12 01 01   1 09   36.2 -9.000 -9.000 -9.000   37. -999. -99999.0  0.10   2.68   0.31    0.00
 0.    7.9  283.8    2.0
 12 01 01   1 10  108.4  0.139  0.707  0.009  119.  124.     -2.3  0.10   2.68   0.24    0.92
 319.    7.9  287.5    2.0
 12 01 01   1 11  160.5  0.114  1.137  0.005  334.   93.     -1.0  0.10   2.68   0.21    0.62
 23.    7.9  292.5    2.0
 12 01 01   1 12  186.7  0.125  1.473  0.005  623.  105.     -1.0  0.10   2.68   0.20    0.69
 18.    7.9  295.4    2.0
 12 01 01   1 13  186.8  0.130  1.761  0.005 1065.  112.     -1.1  0.10   2.68   0.20    0.74
 250.    7.9  297.5    2.0
 12 01 01   1 14  161.7  0.150  1.834  0.005 1387.  139.     -1.9  0.10   2.68   0.21    0.96
 347.    7.9  300.4    2.0
 12 01 01   1 15  105.5  0.243  1.633  0.005 1499.  288.    -12.4  0.10   2.68   0.24    2.11
 194.    7.9  295.9    2.0
 12 01 01   1 16   32.4  0.211  1.109  0.005 1530.  233.    -26.3  0.10   2.68   0.33    1.98
 186.    7.9  295.4    2.0
 12 01 01   1 17  -20.5  0.250 -9.000 -9.000 -999.  300.     69.2  0.10   2.68   0.60    2.81
 293.    7.9  291.4    2.0
 12 01 01   1 18  -25.4  0.257 -9.000 -9.000 -999.  313.     72.8  0.10   2.68   1.00    2.90
 301.    7.9  288.1    2.0
 12 01 01   1 19  -21.0  0.211 -9.000 -9.000 -999.  233.     49.0  0.10   2.68   1.00    2.40
 313.    7.9  286.4    2.0
 12 01 01   1 20  -25.7  0.258 -9.000 -9.000 -999.  315.     73.3  0.10   2.68   1.00    2.91
 302.    7.9  286.4    2.0
 12 01 01   1 21  -22.5  0.225 -9.000 -9.000 -999.  256.     55.7  0.10   2.68   1.00    2.55
 306.    7.9  285.4    2.0
 12 01 01   1 22   -9.3  0.126 -9.000 -9.000 -999.  111.     19.5  0.10   2.68   1.00    1.48
 284.    7.9  285.9    2.0
 12 01 01   1 23  -21.4  0.214 -9.000 -9.000 -999.  237.     50.3  0.10   2.68   1.00    2.43
 282.    7.9  285.4    2.0
 12 01 01   1 24  -30.1  0.300 -9.000 -9.000 -999.  394.     98.9  0.10   2.68   1.00    3.36
 300.    7.9  284.2    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  322.    1.13   282.1   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/06/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       10:03:57

                      PAGE   9
 *** 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       ,
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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)
391891.24	3747480.41	35.47682	(13041207)	391892.01	3747456.00	37.78807	(13041207)
391965.04	3747447.61	42.08900	(13041207)	391925.38	3747447.61	41.46701	(13041207)
392089.38	3747454.66	42.81750	(13041207)	392112.83	3747454.85	41.32014	(13041207)
392033.31	3747443.03	37.53001	(13041207)	392142.39	3747442.46	34.04814	(13041207)
392336.71	3747437.69	23.90680	(12122516)	392429.96	3747448.18	13.80620	(12122516)
392412.42	3747555.73	11.12898	(15011116)	392343.77	3747480.03	27.18875	(12122516)
392217.30	3747461.24	38.97053	(12071106)	392161.48	3747408.94	17.81308	(12071106)
391879.25	3747513.22	27.19864	(13041207)	391891.65	3747546.98	29.22474	(13110408)
391891.84	3747573.68	30.84958	(13110408)	391884.40	3747601.90	21.94278	(13110408)
391891.08	3747641.76	20.89242	(16021717)	391889.35	3747663.46	17.78769	(12112916)
391883.45	3747699.92	13.31443	(12112916)	391881.92	3747730.82	10.67132	(12112916)
391884.40	3747754.47	9.20935	(12112916)	391885.36	3747780.40	7.95772	(12112916)
391883.83	3747768.01	8.52473	(12112916)	391493.56	3748488.26	1.43892	(14091424)
391947.12	3747875.71	7.03313	(12020617)	391983.08	3747875.94	7.92296	(12020617)
391885.46	3747791.74	7.53780	(15091424)	391889.32	3747804.03	7.20898	(14091424)
391887.50	3747815.86	6.89743	(14091424)	391874.76	3747826.10	6.54509	(12082022)
391892.74	3747852.04	6.15032	(15072023)	391892.51	3747880.49	5.65190	(15091120)
392032.89	3747873.67	8.46418	(12020617)	392140.29	3747873.36	8.22702	(12020617)
392233.52	3747864.86	7.99327	(14041207)	392523.19	3747518.42	6.35744	(14091722)
392655.00	3747574.84	4.11861	(13092022)	392733.47	3747870.77	2.76118	(16092618)
391927.56	3747940.84	5.08961	(12020617)	391927.83	3747987.42	4.48110	(12020617)
391940.95	3748045.52	4.12141	(12020617)	391926.76	3748083.27	3.55367	(12020617)
391928.37	3748118.62	3.32215	(12020617)	391927.56	3748149.14	3.11356	(12020617)
391892.49	3747904.69	5.28701	(15091120)	391891.96	3747917.81	5.09772	(15091120)
391891.15	3747931.74	4.90464	(15091120)	391885.26	3747942.98	4.73796	(15091120)
391893.29	3747955.03	4.60831	(15091120)	391893.83	3747978.59	4.33294	(15091003)
391893.03	3747994.39	4.16649	(15091003)	391885.80	3748035.62	3.76168	(15091003)

*** 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)
391893.83	3748088.36	3.34769	(14080322)	391894.63	3748143.78	3.00178	(14080322)
391894.10	3748120.49	3.14181	(14080322)	391894.63	3748155.30	2.93473	(14080322)
391891.15	3748182.87	2.77956	(15081805)	391893.03	3748195.99	2.71503	(15081805)
391927.30	3748191.71	2.86588	(12020617)	391928.64	3748236.15	2.65366	(12020617)
391928.64	3748259.98	2.54303	(12020617)	391894.37	3748207.50	2.65883	(15081805)
391891.15	3748220.09	2.59629	(15081805)	391891.15	3748231.06	2.54501	(15081805)
391891.15	3748243.38	2.48883	(15081805)	391891.15	3748255.70	2.43570	(15081802)
391895.17	3748287.02	2.31535	(15081802)	391895.44	3748311.12	2.22476	(15081802)
391886.07	3748326.91	2.16505	(15081802)	391893.83	3748337.09	2.13186	(15081802)
391896.46	3748353.98	2.07735	(13052920)	391943.47	3748329.02	2.35019	(12020617)
391942.12	3748346.05	2.27410	(12020617)	391935.35	3748361.91	2.17664	(12020617)
391897.02	3748404.40	1.92731	(13052920)	391938.93	3748376.12	2.14432	(12020617)
391932.47	3748387.64	2.07089	(12020617)	391891.74	3748427.33	1.86221	(13052920)
391929.07	3748405.45	1.99505	(12020617)	391929.40	3748424.21	1.93804	(12020617)
391929.73	3748439.17	1.89442	(12020617)	391928.74	3748454.63	1.84505	(12020617)
391897.00	3748453.15	1.79831	(15073104)	391866.08	3747495.99	23.71049	(13041207)
391854.46	3747480.49	21.39449	(13041207)	391855.46	3747526.86	21.66345	(13110408)
391854.21	3747513.99	20.93007	(13110408)	391855.21	3747538.86	22.08881	(13110408)
391855.46	3747549.85	22.53933	(13110408)	392423.79	3747240.43	5.29257	(15090824)

391889.87 3747651.95 19.16264 (16021717) 391853.95
3747577.01 21.10285 (13110408)
391854.20 3747603.13 16.76442 (13110408) 391854.95
3747615.63 16.58253 (16112016)
391855.57 3747626.38 16.46073 (16112016) 391854.14
3747455.54 23.54604 (13041207)
391853.42 3747443.48 23.97961 (13041207) 391888.71
3747380.11 19.98303 (13041207)
391853.60 3747430.34 24.05165 (13041207) 391842.26
3747485.07 17.40862 (13041207)
391705.13 3747221.17 7.04652 (13041207) 391890.27
3747198.72 5.33558 (15071920)
391791.77 3747248.29 8.35925
(13041207)

*** 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 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391891.24	3747480.41	16.21607	(13012408)	391892.01	3747456.00	13.90130	(12121624)
391965.04	3747447.61	22.55303	(14021308)	391925.38	3747447.61	17.47212	(14021308)
392089.38	3747454.66	30.88794	(14021308)	392112.83	3747454.85	31.20935	(14021308)
392033.31	3747443.03	24.41224	(14021308)	392142.39	3747442.46	24.85355	(14021308)
392336.71	3747437.69	13.28984m	(12050224)	392429.96	3747448.18	7.19994	(16101608)
392412.42	3747555.73	8.71842	(12110824)	392343.77	3747480.03	13.01721	(16101608)
392217.30	3747461.24	34.26935	(14021308)	392161.48	3747408.94	15.78156	(14021308)
391879.25	3747513.22	16.15208	(14120308)	391891.65	3747546.98	19.22016	(14021308)
391891.84	3747573.68	18.88902	(14021308)	391884.40	3747601.90	16.22591	(13021808)
391891.08	3747641.76	14.88175	(13052508)	391889.35	3747663.46	12.52484	(13021908)
391883.45	3747699.92	9.42619	(13021908)	391881.92	3747730.82	7.86952	(15090108)
391884.40	3747754.47	7.21632	(13091724)	391885.36	3747780.40	6.60184	(13091724)

391883.83 3747768.01 6.86287 (13091724) 391493.56
3748488.26 1.12246 (13091724)
391947.12 3747875.71 5.00635 (15082008) 391983.08
3747875.94 5.13415 (13041424)
391885.46 3747791.74 6.34614 (13091724) 391889.32
3747804.03 6.13444 (13091724)
391887.50 3747815.86 5.86261 (13091724) 391874.76
3747826.10 5.51671 (13091724)
391892.74 3747852.04 5.20965 (13091724) 391892.51
3747880.49 4.71693 (13091724)
392032.89 3747873.67 5.31792 (13041424) 392140.29
3747873.36 4.97434 (12042924)
392233.52 3747864.86 5.15686 (12042924) 392523.19
3747518.42 4.66863 (15091524)
392655.00 3747574.84 3.24643 (12110824) 392733.47
3747870.77 1.79832 (12041224)
391927.56 3747940.84 3.96542 (15082008) 391927.83
3747987.42 3.40830 (15082008)
391940.95 3748045.52 3.03252 (13041424) 391926.76
3748083.27 2.73587 (13041424)
391928.37 3748118.62 2.54577 (13041424) 391927.56
3748149.14 2.38991 (13041424)
391892.49 3747904.69 4.33795 (13091724) 391891.96
3747917.81 4.14564 (13091724)
391891.15 3747931.74 3.97194 (15082008) 391885.26
3747942.98 3.81429 (15082008)
391893.29 3747955.03 3.72004 (15082008) 391893.83
3747978.59 3.47602 (15082008)
391893.03 3747994.39 3.32028 (15082008) 391885.80
3748035.62 2.94946 (15082008)
391893.83 3748088.36 2.55786 (13041424) 391894.63
3748143.78 2.31470 (13041424)
391894.10 3748120.49 2.41242 (13041424) 391894.63
3748155.30 2.26721 (13041424)
391891.15 3748182.87 2.14818 (13041424) 391893.03
3748195.99 2.10486 (13041424)
391927.30 3748191.71 2.19595 (13041424) 391928.64
3748236.15 2.01759 (13041424)
391928.64 3748259.98 1.92918 (13041424) 391894.37
3748207.50 2.06643 (13041424)
391891.15 3748220.09 2.01415 (13041424) 391891.15
3748231.06 1.97670 (13041424)
391891.15 3748243.38 1.93570 (13041424) 391891.15
3748255.70 1.89579 (13041424)
391895.17 3748287.02 1.80471 (13041424) 391895.44
3748311.12 1.73382 (13041424)
391886.07 3748326.91 1.67905 (13041424) 391893.83
3748337.09 1.65968 (13041424)
391896.46 3748353.98 1.61672 (13041424) 391943.47
3748329.02 1.70059 (13041424)
391942.12 3748346.05 1.64918 (13041424) 391935.35
3748361.91 1.60490 (13041424)
391897.02 3748404.40 1.49114 (13041424) 391938.93
3748376.12 1.56435 (13041424)
391932.47 3748387.64 1.53529 (13041424) 391891.74
3748427.33 1.43665 (13041424)

*** 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 (M)	CONC	(YYMMDDHH)
391929.07	3748405.45	1.49025	(13041424)	391929.40	3748424.21	1.44393	(13041424)
391929.73	3748439.17	1.40835	(13041424)	391928.74	3748454.63	1.37339	(13041424)
391897.00	3748453.15	1.38150	(13041424)	391866.08	3747495.99	13.85080	(13012408)
391854.46	3747480.49	12.39498	(13012408)	391855.46	3747526.86	13.61318	(14120308)
391854.21	3747513.99	13.27418	(14120308)	391855.21	3747538.86	13.65002	(14113008)
391855.46	3747549.85	13.93799	(14113008)	392423.79	3747240.43	4.86408c	(12120424)
391889.87	3747651.95	13.72355	(13052508)	391853.95	3747577.01	13.54465	(14113008)
391854.20	3747603.13	12.56841	(13021808)	391854.95	3747615.63	12.29890	(13021808)
391855.57	3747626.38	11.88403	(13021808)	391854.14	3747455.54	11.03961	(13012408)
391853.42	3747443.48	10.12092	(12121624)	391888.71	3747380.11	7.68116	(12120908)
391853.60	3747430.34	9.46910	(12121624)	391842.26	3747485.07	11.52902	(13012408)
391705.13	3747221.17	2.78725	(12120908)	391890.27	3747198.72	3.14806	(16121008)
391791.77	3747248.29	3.42825	(12120908)				

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF CO IN
MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID

ALL HIGH 1ST HIGH VALUE IS 42.81750 ON 13041207: AT (392089.38, 3747454.66, 29.00, 29.00, 2.00) DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** THE SUMMARY OF HIGHEST 8-HR RESULTS ***

** CONC OF CO IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	34.26935	ON 14021308: AT (392217.30, 3747461.24, 29.00, 29.00, 2.00)	DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** 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 1017 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 747 Calm Hours Identified

A Total of 270 Missing Hours Identified (0.62 Percent)

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********

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ME W186     128       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187     128       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

   ************************************
   *** AERMOD Finishes Successfully ***
   ************************************
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**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/6/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt1 NOX\14715 Ops
Alt1 NOX.ADI
**
**************************************
**
**
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** AERMOD Control Pathway
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**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 1
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID NOX
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt1 NOX.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
```

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   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL2         0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL3         0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL4         0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL5         0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL6         0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL7         0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL8         0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL9         0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL10        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL11        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL12        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL13        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL14        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL15        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL16        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL17        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL18        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL19        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL20        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL21        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL22        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL23        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL24        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL25        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL26        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL27        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL28        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL29        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL30        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL31        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL32        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL33        0.0004598923     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Alt1 NOX.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
```

```
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14715 OPS ALT1 NOX.AD\01H1GALL.PLT" 31
   SUMMFILE "14715 Ops Alt1 NOX.sum"
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

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** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/6/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt1 NOX\14715 Ops
Alt1 NOX.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 1
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID NOX
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt1 NOX.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
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   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
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   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
```

```
   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL2         0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL3         0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL4         0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL5         0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL6         0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL7         0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL8         0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL9         0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL10        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL11        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL12        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL13        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL14        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL15        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL16        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL17        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL18        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL19        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL20        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL21        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL22        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL23        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL24        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL25        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL26        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL27        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL28        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL29        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL30        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL31        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL32        0.0004598923     5.000    10.435     1.400
   SRCPARAM VOL33        0.0004598923     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Alt1 NOX.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
```

```
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14715 OPS ALT1 NOX.AD\01H1GALL.PLT" 31
   SUMMFILE "14715 Ops Alt1 NOX.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     128       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     128       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 ***********************************
 *** SETUP Finishes Successfully ***
 ***********************************

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/06/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        10:19:42

                      PAGE   1
 *** 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    33 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   9818605.0 ;  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:     33 Source(s);       1 Source Group(s); and     105 Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:     33 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) =    10.00 ;  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:   14715 Ops Alt1
 NOX.err
 **File for Summary of Results:   14715 Ops Alt1
 NOX.sum
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/06/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        10:19:42

                      PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.
              URBAN  EMISSION RATE
  SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ
  SOURCE  SCALAR VARY
    ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

- - - - - - - - - - - - -

VOL1	0	0.45989E-03	391943.2	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL2	0	0.45989E-03	391988.3	3747611.1	29.0	5.00	10.44	1.40
YES								
VOL3	0	0.45989E-03	392033.2	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL4	0	0.45989E-03	392078.1	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL5	0	0.45989E-03	392122.7	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL6	0	0.45989E-03	392167.6	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL7	0	0.45989E-03	392175.8	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL8	0	0.45989E-03	392175.0	3747565.7	29.0	5.00	10.44	1.40
YES								
VOL9	0	0.45989E-03	392129.7	3747566.0	29.0	5.00	10.44	1.40
YES								
VOL10	0	0.45989E-03	392084.7	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL11	0	0.45989E-03	392040.2	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL12	0	0.45989E-03	391995.7	3747566.3	29.0	5.00	10.44	1.40
YES								
VOL13	0	0.45989E-03	391951.4	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL14	0	0.45989E-03	391942.7	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL15	0	0.45989E-03	391942.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL16	0	0.45989E-03	391987.4	3747522.1	29.0	5.00	10.44	1.40
YES								
VOL17	0	0.45989E-03	392031.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL18	0	0.45989E-03	392076.4	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL19	0	0.45989E-03	392121.3	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL20	0	0.45989E-03	392165.8	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL21	0	0.45989E-03	392210.9	3747521.2	29.0	5.00	10.44	1.40
YES								
VOL22	0	0.45989E-03	392219.6	3747557.0	29.0	5.00	10.44	1.40
YES								
VOL23	0	0.45989E-03	392237.2	3747556.6	29.0	5.00	10.44	1.40
YES								
VOL24	0	0.45989E-03	392256.9	3747546.6	29.0	5.00	10.44	1.40
YES								
VOL25	0	0.45989E-03	392256.5	3747502.1	29.0	5.00	10.44	1.40
YES								
VOL26	0	0.45989E-03	392256.3	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL27	0	0.45989E-03	392211.2	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL28	0	0.45989E-03	392167.1	3747484.7	29.0	5.00	10.44	1.40
YES								
VOL29	0	0.45989E-03	392122.1	3747484.9	29.0	5.00	10.44	1.40
YES								
VOL30	0	0.45989E-03	392076.7	3747485.0	29.0	5.00	10.44	1.40
YES								
VOL31	0	0.45989E-03	392032.1	3747485.2	29.0	5.00	10.44	1.40
YES								
VOL32	0	0.45989E-03	391987.1	3747485.9	29.0	5.00	10.44	1.40
YES								

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
9818605.	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 ,

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391891.2, 3747480.4, 29.0, 29.0, 2.0); (391892.0, 3747456.0, 29.0, 29.0, 2.0);
(391965.0, 3747447.6, 29.0, 29.0, 2.0); (391925.4, 3747447.6, 29.0, 29.0, 2.0);
(392089.4, 3747454.7, 29.0, 29.0, 2.0); (392112.8, 3747454.8, 29.0, 29.0, 2.0);
(392033.3, 3747443.0, 29.0, 29.0, 2.0); (392142.4, 3747442.5, 29.0, 29.0, 2.0);
(392336.7, 3747437.7, 29.0, 29.0, 2.0); (392430.0, 3747448.2, 29.0, 29.0, 2.0);
(392412.4, 3747555.7, 29.0, 29.0, 2.0); (392343.8, 3747480.0, 29.0, 29.0, 2.0);
(392217.3, 3747461.2, 29.0, 29.0, 2.0); (392161.5, 3747408.9, 29.0, 29.0, 2.0);
(391879.2, 3747513.2, 29.0, 29.0, 2.0); (391891.6, 3747547.0, 29.0, 29.0, 2.0);
(391891.8, 3747573.7, 29.0, 29.0, 2.0); (391884.4, 3747601.9, 29.0, 29.0, 2.0);
(391891.1, 3747641.8, 29.0, 29.0, 2.0); (391889.3, 3747663.5, 29.0, 29.0, 2.0);
(391883.5, 3747699.9, 29.0, 29.0, 2.0); (391881.9, 3747730.8, 29.0, 29.0, 2.0);
(391884.4, 3747754.5, 29.0, 29.0, 2.0); (391885.4, 3747780.4, 29.0, 29.0, 2.0);
(391883.8, 3747768.0, 29.0, 29.0, 2.0); (391493.6, 3748488.3, 29.0, 29.0, 2.0);
(391947.1, 3747875.7, 29.0, 29.0, 2.0); (391983.1, 3747875.9, 29.0, 29.0, 2.0);
(391885.5, 3747791.7, 29.0, 29.0, 2.0); (391889.3, 3747804.0, 29.0, 29.0, 2.0);
(391887.5, 3747815.9, 29.0, 29.0, 2.0); (391874.8, 3747826.1, 29.0, 29.0, 2.0);
(391892.7, 3747852.0, 29.0, 29.0, 2.0); (391892.5, 3747880.5, 29.0, 29.0, 2.0);
(392032.9, 3747873.7, 29.0, 29.0, 2.0); (392140.3, 3747873.4, 29.0, 29.0, 2.0);
(392233.5, 3747864.9, 29.0, 29.0, 2.0); (392523.2, 3747518.4, 28.3, 28.3, 2.0);
(392655.0, 3747574.8, 28.0, 28.0, 2.0); (392733.5, 3747870.8, 27.6, 27.6, 2.0);
(391927.6, 3747940.8, 29.0, 29.0, 2.0); (391927.8, 3747987.4, 29.0, 29.0, 2.0);
(391941.0, 3748045.5, 29.0, 29.0, 2.0); (391926.8, 3748083.3, 29.0, 29.0, 2.0);
(391928.4, 3748118.6, 29.0, 29.0, 2.0); (391927.6, 3748149.1, 29.0, 29.0, 2.0);
(391892.5, 3747904.7, 29.0, 29.0, 2.0); (391892.0, 3747917.8, 29.0, 29.0, 2.0);
(391891.1, 3747931.7, 29.0, 29.0, 2.0); (391885.3, 3747943.0, 29.0, 29.0, 2.0);
(391893.3, 3747955.0, 29.0, 29.0, 2.0); (391893.8, 3747978.6, 29.0, 29.0, 2.0);
(391893.0, 3747994.4, 29.0, 29.0, 2.0); (391885.8, 3748035.6, 29.0, 29.0, 2.0);
(391893.8, 3748088.4, 29.0, 29.0, 2.0); (391894.6, 3748143.8, 29.0, 29.0, 2.0);
(391894.1, 3748120.5, 29.0, 29.0, 2.0); (391894.6, 3748155.3, 29.0, 29.0, 2.0);
(391891.1, 3748182.9, 29.0, 29.0, 2.0); (391893.0, 3748196.0, 29.0, 29.0, 2.0);
(391927.3, 3748191.7, 29.0, 29.0, 2.0); (391928.6,

3748236.1, 29.0, 29.0, 2.0);
(391928.6, 3748260.0, 29.0, 29.0, 2.0); (391894.4,
3748207.5, 29.0, 29.0, 2.0);
(391891.1, 3748220.1, 29.0, 29.0, 2.0); (391891.1,
3748231.1, 29.0, 29.0, 2.0);
(391891.1, 3748243.4, 29.0, 29.0, 2.0); (391891.1,
3748255.7, 29.0, 29.0, 2.0);
(391895.2, 3748287.0, 29.0, 29.0, 2.0); (391895.4,
3748311.1, 29.0, 29.0, 2.0);
(391886.1, 3748326.9, 29.0, 29.0, 2.0); (391893.8,
3748337.1, 29.0, 29.0, 2.0);
(391896.5, 3748354.0, 29.0, 29.0, 2.0); (391943.5,
3748329.0, 29.0, 29.0, 2.0);
(391942.1, 3748346.0, 29.0, 29.0, 2.0); (391935.3,
3748361.9, 29.0, 29.0, 2.0);
(391897.0, 3748404.4, 29.0, 29.0, 2.0); (391938.9,
3748376.1, 29.0, 29.0, 2.0);
(391932.5, 3748387.6, 29.0, 29.0, 2.0); (391891.7,
3748427.3, 29.0, 29.0, 2.0);
(391929.1, 3748405.4, 29.0, 29.0, 2.0); (391929.4,
3748424.2, 29.0, 29.0, 2.0);
(391929.7, 3748439.2, 29.0, 29.0, 2.0); (391928.7,
3748454.6, 29.0, 29.0, 2.0);
(391897.0, 3748453.1, 29.0, 29.0, 2.0); (391866.1,
3747496.0, 29.0, 29.0, 2.0);
(391854.5, 3747480.5, 29.0, 29.0, 2.0); (391855.5,
3747526.9, 29.0, 29.0, 2.0);
(391854.2, 3747514.0, 29.0, 29.0, 2.0); (391855.2,
3747538.9, 29.0, 29.0, 2.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391855.5, 3747549.8, 29.0, 29.0, 2.0); (392423.8,
3747240.4, 29.0, 29.0, 2.0);
(391889.9, 3747651.9, 29.0, 29.0, 2.0); (391854.0,
3747577.0, 29.0, 29.0, 2.0);
(391854.2, 3747603.1, 29.0, 29.0, 2.0); (391855.0,
3747615.6, 29.0, 29.0, 2.0);
(391855.6, 3747626.4, 29.0, 29.0, 2.0); (391854.1,
3747455.5, 29.0, 29.0, 2.0);
(391853.4, 3747443.5, 29.0, 29.0, 2.0); (391888.7,
3747380.1, 29.0, 29.0, 2.0);
(391853.6, 3747430.3, 29.0, 29.0, 2.0); (391842.3,
3747485.1, 29.0, 29.0, 2.0);
(391705.1, 3747221.2, 29.0, 29.0, 2.0); (391890.3,
3747198.7, 29.0, 29.0, 2.0);
(391791.8, 3747248.3, 29.0, 29.0,
2.0);

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***

(1=YES; 0=NO)

```
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file:
KLGB_V9_ADJU\KLGB_v9.SFC Met
Version: 16216
Profile file:
KLGB_V9_ADJU\KLGB_v9.PFL
Surface format:
FREE

Profile format:
FREE

Surface station no.: 23129 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	-5.3	0.094	-9.000	-9.000	-999.	70.	14.3	0.10	2.68	1.00	1.13	322.	7.9	282.0	2.0
12	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	2.68	1.00	0.00	0.	7.9	281.4	2.0
12	01	01	1	03	-2.5	0.068	-9.000	-9.000	-999.	43.	11.4	0.10	2.68	1.00	0.74	79.	7.9	280.9	2.0
12	01	01	1	04	-3.2	0.075	-9.000	-9.000	-999.	49.	11.7	0.10	2.68	1.00	0.86				

```
137.    7.9  280.9    2.0
12 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.10   2.68   1.00    0.00
0.    7.9  280.4    2.0
12 01 01   1 06   -5.2  0.093 -9.000 -9.000 -999.   68.     14.0  0.10   2.68   1.00    1.11
92.    7.9  279.9    2.0
12 01 01   1 07   -2.3  0.066 -9.000 -9.000 -999.   41.     11.5  0.10   2.68   1.00    0.69
67.    7.9  278.8    2.0
12 01 01   1 08   -1.7  0.060 -9.000 -9.000 -999.   36.     11.4  0.10   2.68   0.54    0.65
91.    7.9  279.9    2.0
12 01 01   1 09   36.2 -9.000 -9.000 -9.000   37. -999. -99999.0  0.10   2.68   0.31    0.00
0.    7.9  283.8    2.0
12 01 01   1 10  108.4  0.139  0.707  0.009  119.  124.     -2.3  0.10   2.68   0.24    0.92
319.    7.9  287.5    2.0
12 01 01   1 11  160.5  0.114  1.137  0.005  334.   93.     -1.0  0.10   2.68   0.21    0.62
23.    7.9  292.5    2.0
12 01 01   1 12  186.7  0.125  1.473  0.005  623.  105.     -1.0  0.10   2.68   0.20    0.69
18.    7.9  295.4    2.0
12 01 01   1 13  186.8  0.130  1.761  0.005 1065.  112.     -1.1  0.10   2.68   0.20    0.74
250.    7.9  297.5    2.0
12 01 01   1 14  161.7  0.150  1.834  0.005 1387.  139.     -1.9  0.10   2.68   0.21    0.96
347.    7.9  300.4    2.0
12 01 01   1 15  105.5  0.243  1.633  0.005 1499.  288.    -12.4  0.10   2.68   0.24    2.11
194.    7.9  295.9    2.0
12 01 01   1 16   32.4  0.211  1.109  0.005 1530.  233.    -26.3  0.10   2.68   0.33    1.98
186.    7.9  295.4    2.0
12 01 01   1 17  -20.5  0.250 -9.000 -9.000 -999.  300.     69.2  0.10   2.68   0.60    2.81
293.    7.9  291.4    2.0
12 01 01   1 18  -25.4  0.257 -9.000 -9.000 -999.  313.     72.8  0.10   2.68   1.00    2.90
301.    7.9  288.1    2.0
12 01 01   1 19  -21.0  0.211 -9.000 -9.000 -999.  233.     49.0  0.10   2.68   1.00    2.40
313.    7.9  286.4    2.0
12 01 01   1 20  -25.7  0.258 -9.000 -9.000 -999.  315.     73.3  0.10   2.68   1.00    2.91
302.    7.9  286.4    2.0
12 01 01   1 21  -22.5  0.225 -9.000 -9.000 -999.  256.     55.7  0.10   2.68   1.00    2.55
306.    7.9  285.4    2.0
12 01 01   1 22   -9.3  0.126 -9.000 -9.000 -999.  111.     19.5  0.10   2.68   1.00    1.48
284.    7.9  285.9    2.0
12 01 01   1 23  -21.4  0.214 -9.000 -9.000 -999.  237.     50.3  0.10   2.68   1.00    2.43
282.    7.9  285.4    2.0
12 01 01   1 24  -30.1  0.300 -9.000 -9.000 -999.  394.     98.9  0.10   2.68   1.00    3.36
300.    7.9  284.2    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  322.    1.13   282.1   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/06/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       10:19:42

                      PAGE   9
 *** 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 NOX IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391891.24	3747480.41	2.54252	(13041207)	391892.01	3747456.00	2.70816	(13041207)
391965.04	3747447.61	3.01639	(13041207)	391925.38	3747447.61	2.97182	(13041207)
392089.38	3747454.66	3.06860	(13041207)	392112.83	3747454.85	2.96129	(13041207)
392033.31	3747443.03	2.68966	(13041207)	392142.39	3747442.46	2.44013	(13041207)
392336.71	3747437.69	1.71333	(12122516)	392429.96	3747448.18	0.98945	(12122516)
392412.42	3747555.73	0.79758	(15011116)	392343.77	3747480.03	1.94854	(12122516)
392217.30	3747461.24	2.79290	(12071106)	392161.48	3747408.94	1.27661	(12071106)
391879.25	3747513.22	1.94924	(13041207)	391891.65	3747546.98	2.09445	(13110408)
391891.84	3747573.68	2.21090	(13110408)	391884.40	3747601.90	1.57257	(13110408)
391891.08	3747641.76	1.49730	(16021717)	391889.35	3747663.46	1.27479	(12112916)
391883.45	3747699.92	0.95420	(12112916)	391881.92	3747730.82	0.76478	(12112916)
391884.40	3747754.47	0.66001	(12112916)	391885.36	3747780.40	0.57031	(12112916)
391883.83	3747768.01	0.61094	(12112916)	391493.56	3748488.26	0.10312	(14091424)
391947.12	3747875.71	0.50404	(12020617)	391983.08	3747875.94	0.56781	(12020617)
391885.46	3747791.74	0.54021	(15091424)	391889.32	3747804.03	0.51665	(14091424)
391887.50	3747815.86	0.49432	(14091424)	391874.76	3747826.10	0.46907	(12082022)
391892.74	3747852.04	0.44077	(15072023)	391892.51	3747880.49	0.40505	(15091120)
392032.89	3747873.67	0.60660	(12020617)	392140.29	3747873.36	0.58961	(12020617)
392233.52	3747864.86	0.57285	(14041207)	392523.19	3747518.42	0.45562	(14091722)
392655.00	3747574.84	0.29517	(13092022)	392733.47	3747870.77	0.19789	(16092618)
391927.56	3747940.84	0.36476	(12020617)	391927.83	3747987.42	0.32115	(12020617)
391940.95	3748045.52	0.29537	(12020617)	391926.76	3748083.27	0.25468	(12020617)
391928.37	3748118.62	0.23809	(12020617)	391927.56	3748149.14	0.22314	(12020617)
391892.49	3747904.69	0.37890	(15091120)	391891.96	3747917.81	0.36534	(15091120)
391891.15	3747931.74	0.35150	(15091120)	391885.26	3747942.98	0.33956	(15091120)
391893.29	3747955.03	0.33026	(15091120)	391893.83	3747978.59	0.31053	(15091003)
391893.03	3747994.39	0.29860	(15091003)	391885.80	3748035.62	0.26959	(15091003)
391893.83	3748088.36	0.23992	(14080322)	391894.63	3748143.78	0.21513	(14080322)

391894.10 3748120.49 0.22516 (14080322) 391894.63
3748155.30 0.21032 (14080322)
391891.15 3748182.87 0.19920 (15081805) 391893.03
3748195.99 0.19458 (15081805)
391927.30 3748191.71 0.20539 (12020617) 391928.64
3748236.15 0.19018 (12020617)
391928.64 3748259.98 0.18225 (12020617) 391894.37
3748207.50 0.19055 (15081805)
391891.15 3748220.09 0.18607 (15081805) 391891.15
3748231.06 0.18239 (15081805)
391891.15 3748243.38 0.17837 (15081805) 391891.15
3748255.70 0.17456 (15081802)
391895.17 3748287.02 0.16593 (15081802) 391895.44
3748311.12 0.15944 (15081802)
391886.07 3748326.91 0.15516 (15081802) 391893.83
3748337.09 0.15278 (15081802)
391896.46 3748353.98 0.14888 (13052920) 391943.47
3748329.02 0.16843 (12020617)
391942.12 3748346.05 0.16298 (12020617) 391935.35
3748361.91 0.15599 (12020617)
391897.02 3748404.40 0.13812 (13052920) 391938.93
3748376.12 0.15368 (12020617)
391932.47 3748387.64 0.14841 (12020617) 391891.74
3748427.33 0.13346 (13052920)

*** 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) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)
- -
391929.07 3748405.45 0.14298 (12020617) 391929.40
3748424.21 0.13889 (12020617)
391929.73 3748439.17 0.13577 (12020617) 391928.74
3748454.63 0.13223 (12020617)
391897.00 3748453.15 0.12888 (15073104) 391866.08
3747495.99 1.69926 (13041207)
391854.46 3747480.49 1.53328 (13041207) 391855.46
3747526.86 1.55255 (13110408)
391854.21 3747513.99 1.50000 (13110408) 391855.21
3747538.86 1.58304 (13110408)
391855.46 3747549.85 1.61533 (13110408) 392423.79
3747240.43 0.37930 (15090824)
391889.87 3747651.95 1.37333 (16021717) 391853.95
3747577.01 1.51238 (13110408)

391854.20 3747603.13 1.20146 (13110408) 391854.95
3747615.63 1.18842 (16112016)
391855.57 3747626.38 1.17969 (16112016) 391854.14
3747455.54 1.68747 (13041207)
391853.42 3747443.48 1.71855 (13041207) 391888.71
3747380.11 1.43212 (13041207)
391853.60 3747430.34 1.72371 (13041207) 391842.26
3747485.07 1.24762 (13041207)
391705.13 3747221.17 0.50500 (13041207) 391890.27
3747198.72 0.38239 (15071920)
391791.77 3747248.29 0.59908
(13041207)

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF NOX IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	1ST HIGH	1ST HIGH VALUE IS 3.06860	ON 13041207: AT (392089.38, 3747454.66, 29.00, 29.00, 2.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** 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 1017 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 747 Calm Hours Identified

A Total of 270 Missing Hours Identified (0.62 Percent)

******** FATAL ERROR MESSAGES ********

*** NONE ***

******** WARNING MESSAGES ********

ME W186 128 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used 0.50

ME W187 128 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

****

*** AERMOD Finishes Successfully ***

****

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/6/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt1 PM10\14715 Ops
Alt1 PM10.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID PM_10
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt1 PM10.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
```

```
   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL2         0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL3         0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL4         0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL5         0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL6         0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL7         0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL8         0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL9         0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL10        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL11        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL12        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL13        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL14        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL15        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL16        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL17        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL18        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL19        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL20        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL21        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL22        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL23        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL24        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL25        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL26        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL27        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL28        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL29        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL30        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL31        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL32        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL33        0.0000919785     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Alt1 PM10.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
```

```
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "14715 OPS ALT1 PM10.AD\24H1GALL.PLT" 31
   SUMMFILE "14715 Ops Alt1 PM10.sum"
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/6/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt1 PM10\14715 Ops
Alt1 PM10.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID PM_10
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt1 PM10.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
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   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
```

```
   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL2         0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL3         0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL4         0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL5         0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL6         0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL7         0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL8         0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL9         0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL10        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL11        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL12        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL13        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL14        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL15        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL16        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL17        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL18        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL19        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL20        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL21        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL22        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL23        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL24        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL25        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL26        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL27        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL28        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL29        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL30        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL31        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL32        0.0000919785     5.000    10.435     1.400
   SRCPARAM VOL33        0.0000919785     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Alt1 PM10.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
```

```
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "14715 OPS ALT1 PM10.AD\24H1GALL.PLT" 31
   SUMMFILE "14715 Ops Alt1 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     128       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     128       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 *********************************
 *** SETUP Finishes Successfully ***
 *********************************

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/06/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        10:41:09

                      PAGE   1
 *** 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    33 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   9818605.0 ;  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:     33 Source(s);       1 Source Group(s); and     105 Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:     33 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) =    10.00 ;  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:   14715 Ops Alt1
 PM10.err
 **File for Summary of Results:   14715 Ops Alt1
 PM10.sum
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/06/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       10:41:09

                      PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.
              URBAN  EMISSION RATE
  SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ
  SOURCE  SCALAR VARY
    ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

- - - - - - - - - - - - -

VOL1	0	0.91979E-04	391943.2	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL2	0	0.91979E-04	391988.3	3747611.1	29.0	5.00	10.44	1.40
YES								
VOL3	0	0.91979E-04	392033.2	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL4	0	0.91979E-04	392078.1	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL5	0	0.91979E-04	392122.7	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL6	0	0.91979E-04	392167.6	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL7	0	0.91979E-04	392175.8	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL8	0	0.91979E-04	392175.0	3747565.7	29.0	5.00	10.44	1.40
YES								
VOL9	0	0.91979E-04	392129.7	3747566.0	29.0	5.00	10.44	1.40
YES								
VOL10	0	0.91979E-04	392084.7	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL11	0	0.91979E-04	392040.2	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL12	0	0.91979E-04	391995.7	3747566.3	29.0	5.00	10.44	1.40
YES								
VOL13	0	0.91979E-04	391951.4	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL14	0	0.91979E-04	391942.7	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL15	0	0.91979E-04	391942.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL16	0	0.91979E-04	391987.4	3747522.1	29.0	5.00	10.44	1.40
YES								
VOL17	0	0.91979E-04	392031.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL18	0	0.91979E-04	392076.4	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL19	0	0.91979E-04	392121.3	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL20	0	0.91979E-04	392165.8	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL21	0	0.91979E-04	392210.9	3747521.2	29.0	5.00	10.44	1.40
YES								
VOL22	0	0.91979E-04	392219.6	3747557.0	29.0	5.00	10.44	1.40
YES								
VOL23	0	0.91979E-04	392237.2	3747556.6	29.0	5.00	10.44	1.40
YES								
VOL24	0	0.91979E-04	392256.9	3747546.6	29.0	5.00	10.44	1.40
YES								
VOL25	0	0.91979E-04	392256.5	3747502.1	29.0	5.00	10.44	1.40
YES								
VOL26	0	0.91979E-04	392256.3	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL27	0	0.91979E-04	392211.2	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL28	0	0.91979E-04	392167.1	3747484.7	29.0	5.00	10.44	1.40
YES								
VOL29	0	0.91979E-04	392122.1	3747484.9	29.0	5.00	10.44	1.40
YES								
VOL30	0	0.91979E-04	392076.7	3747485.0	29.0	5.00	10.44	1.40
YES								
VOL31	0	0.91979E-04	392032.1	3747485.2	29.0	5.00	10.44	1.40
YES								
VOL32	0	0.91979E-04	391987.1	3747485.9	29.0	5.00	10.44	1.40
YES								

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
9818605.	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 ,

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391891.2, 3747480.4, 29.0, 29.0, 2.0); (391892.0, 3747456.0, 29.0, 29.0, 2.0);
(391965.0, 3747447.6, 29.0, 29.0, 2.0); (391925.4, 3747447.6, 29.0, 29.0, 2.0);
(392089.4, 3747454.7, 29.0, 29.0, 2.0); (392112.8, 3747454.8, 29.0, 29.0, 2.0);
(392033.3, 3747443.0, 29.0, 29.0, 2.0); (392142.4, 3747442.5, 29.0, 29.0, 2.0);
(392336.7, 3747437.7, 29.0, 29.0, 2.0); (392430.0, 3747448.2, 29.0, 29.0, 2.0);
(392412.4, 3747555.7, 29.0, 29.0, 2.0); (392343.8, 3747480.0, 29.0, 29.0, 2.0);
(392217.3, 3747461.2, 29.0, 29.0, 2.0); (392161.5, 3747408.9, 29.0, 29.0, 2.0);
(391879.2, 3747513.2, 29.0, 29.0, 2.0); (391891.6, 3747547.0, 29.0, 29.0, 2.0);
(391891.8, 3747573.7, 29.0, 29.0, 2.0); (391884.4, 3747601.9, 29.0, 29.0, 2.0);
(391891.1, 3747641.8, 29.0, 29.0, 2.0); (391889.3, 3747663.5, 29.0, 29.0, 2.0);
(391883.5, 3747699.9, 29.0, 29.0, 2.0); (391881.9, 3747730.8, 29.0, 29.0, 2.0);
(391884.4, 3747754.5, 29.0, 29.0, 2.0); (391885.4, 3747780.4, 29.0, 29.0, 2.0);
(391883.8, 3747768.0, 29.0, 29.0, 2.0); (391493.6, 3748488.3, 29.0, 29.0, 2.0);
(391947.1, 3747875.7, 29.0, 29.0, 2.0); (391983.1, 3747875.9, 29.0, 29.0, 2.0);
(391885.5, 3747791.7, 29.0, 29.0, 2.0); (391889.3, 3747804.0, 29.0, 29.0, 2.0);
(391887.5, 3747815.9, 29.0, 29.0, 2.0); (391874.8, 3747826.1, 29.0, 29.0, 2.0);
(391892.7, 3747852.0, 29.0, 29.0, 2.0); (391892.5, 3747880.5, 29.0, 29.0, 2.0);
(392032.9, 3747873.7, 29.0, 29.0, 2.0); (392140.3, 3747873.4, 29.0, 29.0, 2.0);
(392233.5, 3747864.9, 29.0, 29.0, 2.0); (392523.2, 3747518.4, 28.3, 28.3, 2.0);
(392655.0, 3747574.8, 28.0, 28.0, 2.0); (392733.5, 3747870.8, 27.6, 27.6, 2.0);
(391927.6, 3747940.8, 29.0, 29.0, 2.0); (391927.8, 3747987.4, 29.0, 29.0, 2.0);
(391941.0, 3748045.5, 29.0, 29.0, 2.0); (391926.8, 3748083.3, 29.0, 29.0, 2.0);
(391928.4, 3748118.6, 29.0, 29.0, 2.0); (391927.6, 3748149.1, 29.0, 29.0, 2.0);
(391892.5, 3747904.7, 29.0, 29.0, 2.0); (391892.0, 3747917.8, 29.0, 29.0, 2.0);
(391891.1, 3747931.7, 29.0, 29.0, 2.0); (391885.3, 3747943.0, 29.0, 29.0, 2.0);
(391893.3, 3747955.0, 29.0, 29.0, 2.0); (391893.8, 3747978.6, 29.0, 29.0, 2.0);
(391893.0, 3747994.4, 29.0, 29.0, 2.0); (391885.8, 3748035.6, 29.0, 29.0, 2.0);
(391893.8, 3748088.4, 29.0, 29.0, 2.0); (391894.6, 3748143.8, 29.0, 29.0, 2.0);
(391894.1, 3748120.5, 29.0, 29.0, 2.0); (391894.6, 3748155.3, 29.0, 29.0, 2.0);
(391891.1, 3748182.9, 29.0, 29.0, 2.0); (391893.0, 3748196.0, 29.0, 29.0, 2.0);
(391927.3, 3748191.7, 29.0, 29.0, 2.0); (391928.6,

3748236.1, 29.0, 29.0, 2.0);
(391928.6, 3748260.0, 29.0, 29.0, 2.0); (391894.4,
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(391891.1, 3748220.1, 29.0, 29.0, 2.0); (391891.1,
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(391891.1, 3748243.4, 29.0, 29.0, 2.0); (391891.1,
3748255.7, 29.0, 29.0, 2.0);
(391895.2, 3748287.0, 29.0, 29.0, 2.0); (391895.4,
3748311.1, 29.0, 29.0, 2.0);
(391886.1, 3748326.9, 29.0, 29.0, 2.0); (391893.8,
3748337.1, 29.0, 29.0, 2.0);
(391896.5, 3748354.0, 29.0, 29.0, 2.0); (391943.5,
3748329.0, 29.0, 29.0, 2.0);
(391942.1, 3748346.0, 29.0, 29.0, 2.0); (391935.3,
3748361.9, 29.0, 29.0, 2.0);
(391897.0, 3748404.4, 29.0, 29.0, 2.0); (391938.9,
3748376.1, 29.0, 29.0, 2.0);
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(391929.1, 3748405.4, 29.0, 29.0, 2.0); (391929.4,
3748424.2, 29.0, 29.0, 2.0);
(391929.7, 3748439.2, 29.0, 29.0, 2.0); (391928.7,
3748454.6, 29.0, 29.0, 2.0);
(391897.0, 3748453.1, 29.0, 29.0, 2.0); (391866.1,
3747496.0, 29.0, 29.0, 2.0);
(391854.5, 3747480.5, 29.0, 29.0, 2.0); (391855.5,
3747526.9, 29.0, 29.0, 2.0);
(391854.2, 3747514.0, 29.0, 29.0, 2.0); (391855.2,
3747538.9, 29.0, 29.0, 2.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391855.5, 3747549.8, 29.0, 29.0, 2.0); (392423.8,
3747240.4, 29.0, 29.0, 2.0);
(391889.9, 3747651.9, 29.0, 29.0, 2.0); (391854.0,
3747577.0, 29.0, 29.0, 2.0);
(391854.2, 3747603.1, 29.0, 29.0, 2.0); (391855.0,
3747615.6, 29.0, 29.0, 2.0);
(391855.6, 3747626.4, 29.0, 29.0, 2.0); (391854.1,
3747455.5, 29.0, 29.0, 2.0);
(391853.4, 3747443.5, 29.0, 29.0, 2.0); (391888.7,
3747380.1, 29.0, 29.0, 2.0);
(391853.6, 3747430.3, 29.0, 29.0, 2.0); (391842.3,
3747485.1, 29.0, 29.0, 2.0);
(391705.1, 3747221.2, 29.0, 29.0, 2.0); (391890.3,
3747198.7, 29.0, 29.0, 2.0);
(391791.8, 3747248.3, 29.0, 29.0,
2.0);

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***

(1=YES; 0=NO)

```
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file:
KLGB_V9_ADJU\KLGB_v9.SFC Met
Version: 16216
Profile file:
KLGB_V9_ADJU\KLGB_v9.PFL
Surface format:
FREE

Profile format:
FREE

Surface station no.: 23129 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	-5.3	0.094	-9.000	-9.000	-999.	70.	14.3	0.10	2.68	1.00	1.13	322.	7.9	282.0	2.0
12	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	2.68	1.00	0.00	0.	7.9	281.4	2.0
12	01	01	1	03	-2.5	0.068	-9.000	-9.000	-999.	43.	11.4	0.10	2.68	1.00	0.74	79.	7.9	280.9	2.0
12	01	01	1	04	-3.2	0.075	-9.000	-9.000	-999.	49.	11.7	0.10	2.68	1.00	0.86				

```
137.    7.9  280.9    2.0
12 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.10   2.68   1.00    0.00
0.    7.9  280.4    2.0
12 01 01   1 06   -5.2  0.093 -9.000 -9.000 -999.   68.     14.0  0.10   2.68   1.00    1.11
92.    7.9  279.9    2.0
12 01 01   1 07   -2.3  0.066 -9.000 -9.000 -999.   41.     11.5  0.10   2.68   1.00    0.69
67.    7.9  278.8    2.0
12 01 01   1 08   -1.7  0.060 -9.000 -9.000 -999.   36.     11.4  0.10   2.68   0.54    0.65
91.    7.9  279.9    2.0
12 01 01   1 09   36.2 -9.000 -9.000 -9.000   37. -999. -99999.0  0.10   2.68   0.31    0.00
0.    7.9  283.8    2.0
12 01 01   1 10  108.4  0.139  0.707  0.009  119.  124.     -2.3  0.10   2.68   0.24    0.92
319.    7.9  287.5    2.0
12 01 01   1 11  160.5  0.114  1.137  0.005  334.   93.     -1.0  0.10   2.68   0.21    0.62
23.    7.9  292.5    2.0
12 01 01   1 12  186.7  0.125  1.473  0.005  623.  105.     -1.0  0.10   2.68   0.20    0.69
18.    7.9  295.4    2.0
12 01 01   1 13  186.8  0.130  1.761  0.005 1065.  112.     -1.1  0.10   2.68   0.20    0.74
250.    7.9  297.5    2.0
12 01 01   1 14  161.7  0.150  1.834  0.005 1387.  139.     -1.9  0.10   2.68   0.21    0.96
347.    7.9  300.4    2.0
12 01 01   1 15  105.5  0.243  1.633  0.005 1499.  288.    -12.4  0.10   2.68   0.24    2.11
194.    7.9  295.9    2.0
12 01 01   1 16   32.4  0.211  1.109  0.005 1530.  233.    -26.3  0.10   2.68   0.33    1.98
186.    7.9  295.4    2.0
12 01 01   1 17  -20.5  0.250 -9.000 -9.000 -999.  300.     69.2  0.10   2.68   0.60    2.81
293.    7.9  291.4    2.0
12 01 01   1 18  -25.4  0.257 -9.000 -9.000 -999.  313.     72.8  0.10   2.68   1.00    2.90
301.    7.9  288.1    2.0
12 01 01   1 19  -21.0  0.211 -9.000 -9.000 -999.  233.     49.0  0.10   2.68   1.00    2.40
313.    7.9  286.4    2.0
12 01 01   1 20  -25.7  0.258 -9.000 -9.000 -999.  315.     73.3  0.10   2.68   1.00    2.91
302.    7.9  286.4    2.0
12 01 01   1 21  -22.5  0.225 -9.000 -9.000 -999.  256.     55.7  0.10   2.68   1.00    2.55
306.    7.9  285.4    2.0
12 01 01   1 22   -9.3  0.126 -9.000 -9.000 -999.  111.     19.5  0.10   2.68   1.00    1.48
284.    7.9  285.9    2.0
12 01 01   1 23  -21.4  0.214 -9.000 -9.000 -999.  237.     50.3  0.10   2.68   1.00    2.43
282.    7.9  285.4    2.0
12 01 01   1 24  -30.1  0.300 -9.000 -9.000 -999.  394.     98.9  0.10   2.68   1.00    3.36
300.    7.9  284.2    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  322.    1.13   282.1   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/06/23
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***       10:41:09

                      PAGE   9
 *** 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        , 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_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391891.24	3747480.41	0.17748	(12121624)	391892.01	3747456.00	0.14106	(12121624)
391965.04	3747447.61	0.22135c	(12122924)	391925.38	3747447.61	0.18079c	(12122924)
392089.38	3747454.66	0.31092c	(12122524)	392112.83	3747454.85	0.31544c	(12122524)
392033.31	3747443.03	0.23925c	(12122524)	392142.39	3747442.46	0.25550c	(12122524)
392336.71	3747437.69	0.13080	(13122724)	392429.96	3747448.18	0.06739	(13040124)
392412.42	3747555.73	0.07088	(15040624)	392343.77	3747480.03	0.13378	(16101624)
392217.30	3747461.24	0.35007c	(12122524)	392161.48	3747408.94	0.16184m	(15020724)
391879.25	3747513.22	0.17001	(12121624)	391891.65	3747546.98	0.20166	(14121624)
391891.84	3747573.68	0.20046	(14121624)	391884.40	3747601.90	0.17002	(12112924)
391891.08	3747641.76	0.14835	(12112924)	391889.35	3747663.46	0.12168	(12112924)
391883.45	3747699.92	0.08711	(12112924)	391881.92	3747730.82	0.07297	(13043024)
391884.40	3747754.47	0.06707	(13043024)	391885.36	3747780.40	0.06103	(16061124)
391883.83	3747768.01	0.06327	(13043024)	391493.56	3748488.26	0.00863	(14083124)
391947.12	3747875.71	0.05073	(16061124)	391983.08	3747875.94	0.05097	(16061124)
391885.46	3747791.74	0.05887	(16061124)	391889.32	3747804.03	0.05762	(16061124)
391887.50	3747815.86	0.05502	(16061124)	391874.76	3747826.10	0.05044	(16061124)
391892.74	3747852.04	0.05002	(16061124)	391892.51	3747880.49	0.04578	(16061124)
392032.89	3747873.67	0.05106	(12041924)	392140.29	3747873.36	0.05068	(16051624)
392233.52	3747864.86	0.04795	(14052424)	392523.19	3747518.42	0.04270	(16101624)
392655.00	3747574.84	0.02503	(15040624)	392733.47	3747870.77	0.01297	(12110824)
391927.56	3747940.84	0.03980	(16061124)	391927.83	3747987.42	0.03424	(16061124)
391940.95	3748045.52	0.02842	(16061124)	391926.76	3748083.27	0.02556	(16061124)
391928.37	3748118.62	0.02349	(12041924)	391927.56	3748149.14	0.02198	(12041924)
391892.49	3747904.69	0.04256	(16061124)	391891.96	3747917.81	0.04090	(16061124)
391891.15	3747931.74	0.03921	(16061124)	391885.26	3747942.98	0.03757	(16061124)
391893.29	3747955.03	0.03679	(16061124)	391893.83	3747978.59	0.03441	(16061124)
391893.03	3747994.39	0.03288	(16061124)	391885.80	3748035.62	0.02917	(16061124)
391893.83	3748088.36	0.02540	(16061124)	391894.63	3748143.78	0.02192	(16061124)

391894.10 3748120.49 0.02331 (16061124) 391894.63
3748155.30 0.02127 (16061124)
391891.15 3748182.87 0.01984 (16061124) 391893.03
3748195.99 0.01925 (12041924)
391927.30 3748191.71 0.02012 (12041924) 391928.64
3748236.15 0.01843 (12041924)
391928.64 3748259.98 0.01759 (12041924) 391894.37
3748207.50 0.01888 (12041924)
391891.15 3748220.09 0.01838 (12041924) 391891.15
3748231.06 0.01802 (12041924)
391891.15 3748243.38 0.01763 (12041924) 391891.15
3748255.70 0.01724 (12041924)
391895.17 3748287.02 0.01638 (12041924) 391895.44
3748311.12 0.01572 (12041924)
391886.07 3748326.91 0.01519 (12041924) 391893.83
3748337.09 0.01502 (12041924)
391896.46 3748353.98 0.01462 (12041924) 391943.47
3748329.02 0.01547 (12041924)
391942.12 3748346.05 0.01499 (12041924) 391935.35
3748361.91 0.01457 (12041924)
391897.02 3748404.40 0.01345 (12041924) 391938.93
3748376.12 0.01420 (12041924)
391932.47 3748387.64 0.01392 (12041924) 391891.74
3748427.33 0.01294 (12041924)

*** 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 , 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_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391929.07	3748405.45	0.01350	(12041924)	391929.40	3748424.21	0.01307	(12041924)
391929.73	3748439.17	0.01274	(12041924)	391928.74	3748454.63	0.01242	(12041924)
391897.00	3748453.15	0.01244	(12041924)	391866.08	3747495.99	0.14567	(12121624)
391854.46	3747480.49	0.12475	(12121624)	391855.46	3747526.86	0.13637	(14121624)
391854.21	3747513.99	0.13269	(12121624)	391855.21	3747538.86	0.13824	(14121624)
391855.46	3747549.85	0.13926	(14121624)	392423.79	3747240.43	0.04413	(16122724)
391889.87	3747651.95	0.13483	(12112924)	391853.95	3747577.01	0.13206	(14121624)

391854.20 3747603.13 0.11932 (12112924) 391854.95
3747615.63 0.11642 (12112924)
391855.57 3747626.38 0.11273 (12112924) 391854.14
3747455.54 0.10740 (12121624)
391853.42 3747443.48 0.09784 (12121624) 391888.71
3747380.11 0.07831c (12122924)
391853.60 3747430.34 0.08860 (12121624) 391842.26
3747485.07 0.11462 (12121624)
391705.13 3747221.17 0.02355c (12122924) 391890.27
3747198.72 0.03028c (12122924)
391791.77 3747248.29 0.03123c
(12122924)

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	0.35007c ON 12122524	AT (392217.30, 3747461.24, 29.00, 29.00, 2.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** 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 1017 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 747 Calm Hours Identified

A Total of 270 Missing Hours Identified (0.62 Percent)

******** FATAL ERROR MESSAGES ********

*** NONE ***

******** WARNING MESSAGES ********

ME W186 128 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used 0.50

ME W187 128 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

****

*** AERMOD Finishes Successfully ***

****

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/6/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt1 PM25\14715 Ops
Alt1 PM25.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID PM_2.5
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt1 PM25.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
```

```
   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL2         0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL3         0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL4         0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL5         0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL6         0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL7         0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL8         0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL9         0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL10        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL11        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL12        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL13        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL14        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL15        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL16        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL17        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL18        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL19        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL20        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL21        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL22        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL23        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL24        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL25        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL26        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL27        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL28        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL29        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL30        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL31        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL32        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL33        0.0000302395     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Alt1 PM25.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
```

```
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "14715 OPS ALT1 PM25.AD\24H1GALL.PLT" 31
   SUMMFILE "14715 Ops Alt1 PM25.sum"
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/6/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt1 PM25\14715 Ops
Alt1 PM25.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID PM_2.5
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt1 PM25.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
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   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
```

```
   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL2         0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL3         0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL4         0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL5         0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL6         0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL7         0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL8         0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL9         0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL10        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL11        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL12        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL13        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL14        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL15        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL16        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL17        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL18        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL19        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL20        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL21        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL22        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL23        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL24        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL25        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL26        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL27        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL28        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL29        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL30        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL31        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL32        0.0000302395     5.000    10.435     1.400
   SRCPARAM VOL33        0.0000302395     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Alt1 PM25.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
```

```
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "14715 OPS ALT1 PM25.AD\24H1GALL.PLT" 31
   SUMMFILE "14715 Ops Alt1 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     128       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     128       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 *********************************
 *** SETUP Finishes Successfully ***
 *********************************

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/06/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        11:10:41

                      PAGE   1
 *** 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    33 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   9818605.0 ;  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:     33 Source(s);       1 Source Group(s); and     105 Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:     33 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) =    10.00 ;  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:   14715 Ops Alt1
 PM25.err
 **File for Summary of Results:   14715 Ops Alt1
 PM25.sum
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/06/23
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***        11:10:41

                      PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.
              URBAN  EMISSION RATE
  SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ
  SOURCE  SCALAR VARY
    ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

- - - - - - - - - - - - -

VOL1	0	0.30240E-04	391943.2	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL2	0	0.30240E-04	391988.3	3747611.1	29.0	5.00	10.44	1.40
YES								
VOL3	0	0.30240E-04	392033.2	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL4	0	0.30240E-04	392078.1	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL5	0	0.30240E-04	392122.7	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL6	0	0.30240E-04	392167.6	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL7	0	0.30240E-04	392175.8	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL8	0	0.30240E-04	392175.0	3747565.7	29.0	5.00	10.44	1.40
YES								
VOL9	0	0.30240E-04	392129.7	3747566.0	29.0	5.00	10.44	1.40
YES								
VOL10	0	0.30240E-04	392084.7	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL11	0	0.30240E-04	392040.2	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL12	0	0.30240E-04	391995.7	3747566.3	29.0	5.00	10.44	1.40
YES								
VOL13	0	0.30240E-04	391951.4	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL14	0	0.30240E-04	391942.7	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL15	0	0.30240E-04	391942.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL16	0	0.30240E-04	391987.4	3747522.1	29.0	5.00	10.44	1.40
YES								
VOL17	0	0.30240E-04	392031.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL18	0	0.30240E-04	392076.4	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL19	0	0.30240E-04	392121.3	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL20	0	0.30240E-04	392165.8	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL21	0	0.30240E-04	392210.9	3747521.2	29.0	5.00	10.44	1.40
YES								
VOL22	0	0.30240E-04	392219.6	3747557.0	29.0	5.00	10.44	1.40
YES								
VOL23	0	0.30240E-04	392237.2	3747556.6	29.0	5.00	10.44	1.40
YES								
VOL24	0	0.30240E-04	392256.9	3747546.6	29.0	5.00	10.44	1.40
YES								
VOL25	0	0.30240E-04	392256.5	3747502.1	29.0	5.00	10.44	1.40
YES								
VOL26	0	0.30240E-04	392256.3	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL27	0	0.30240E-04	392211.2	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL28	0	0.30240E-04	392167.1	3747484.7	29.0	5.00	10.44	1.40
YES								
VOL29	0	0.30240E-04	392122.1	3747484.9	29.0	5.00	10.44	1.40
YES								
VOL30	0	0.30240E-04	392076.7	3747485.0	29.0	5.00	10.44	1.40
YES								
VOL31	0	0.30240E-04	392032.1	3747485.2	29.0	5.00	10.44	1.40
YES								
VOL32	0	0.30240E-04	391987.1	3747485.9	29.0	5.00	10.44	1.40
YES								

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
9818605.	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 ,

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391891.2, 3747480.4, 29.0, 29.0, 2.0); (391892.0, 3747456.0, 29.0, 29.0, 2.0);
(391965.0, 3747447.6, 29.0, 29.0, 2.0); (391925.4, 3747447.6, 29.0, 29.0, 2.0);
(392089.4, 3747454.7, 29.0, 29.0, 2.0); (392112.8, 3747454.8, 29.0, 29.0, 2.0);
(392033.3, 3747443.0, 29.0, 29.0, 2.0); (392142.4, 3747442.5, 29.0, 29.0, 2.0);
(392336.7, 3747437.7, 29.0, 29.0, 2.0); (392430.0, 3747448.2, 29.0, 29.0, 2.0);
(392412.4, 3747555.7, 29.0, 29.0, 2.0); (392343.8, 3747480.0, 29.0, 29.0, 2.0);
(392217.3, 3747461.2, 29.0, 29.0, 2.0); (392161.5, 3747408.9, 29.0, 29.0, 2.0);
(391879.2, 3747513.2, 29.0, 29.0, 2.0); (391891.6, 3747547.0, 29.0, 29.0, 2.0);
(391891.8, 3747573.7, 29.0, 29.0, 2.0); (391884.4, 3747601.9, 29.0, 29.0, 2.0);
(391891.1, 3747641.8, 29.0, 29.0, 2.0); (391889.3, 3747663.5, 29.0, 29.0, 2.0);
(391883.5, 3747699.9, 29.0, 29.0, 2.0); (391881.9, 3747730.8, 29.0, 29.0, 2.0);
(391884.4, 3747754.5, 29.0, 29.0, 2.0); (391885.4, 3747780.4, 29.0, 29.0, 2.0);
(391883.8, 3747768.0, 29.0, 29.0, 2.0); (391493.6, 3748488.3, 29.0, 29.0, 2.0);
(391947.1, 3747875.7, 29.0, 29.0, 2.0); (391983.1, 3747875.9, 29.0, 29.0, 2.0);
(391885.5, 3747791.7, 29.0, 29.0, 2.0); (391889.3, 3747804.0, 29.0, 29.0, 2.0);
(391887.5, 3747815.9, 29.0, 29.0, 2.0); (391874.8, 3747826.1, 29.0, 29.0, 2.0);
(391892.7, 3747852.0, 29.0, 29.0, 2.0); (391892.5, 3747880.5, 29.0, 29.0, 2.0);
(392032.9, 3747873.7, 29.0, 29.0, 2.0); (392140.3, 3747873.4, 29.0, 29.0, 2.0);
(392233.5, 3747864.9, 29.0, 29.0, 2.0); (392523.2, 3747518.4, 28.3, 28.3, 2.0);
(392655.0, 3747574.8, 28.0, 28.0, 2.0); (392733.5, 3747870.8, 27.6, 27.6, 2.0);
(391927.6, 3747940.8, 29.0, 29.0, 2.0); (391927.8, 3747987.4, 29.0, 29.0, 2.0);
(391941.0, 3748045.5, 29.0, 29.0, 2.0); (391926.8, 3748083.3, 29.0, 29.0, 2.0);
(391928.4, 3748118.6, 29.0, 29.0, 2.0); (391927.6, 3748149.1, 29.0, 29.0, 2.0);
(391892.5, 3747904.7, 29.0, 29.0, 2.0); (391892.0, 3747917.8, 29.0, 29.0, 2.0);
(391891.1, 3747931.7, 29.0, 29.0, 2.0); (391885.3, 3747943.0, 29.0, 29.0, 2.0);
(391893.3, 3747955.0, 29.0, 29.0, 2.0); (391893.8, 3747978.6, 29.0, 29.0, 2.0);
(391893.0, 3747994.4, 29.0, 29.0, 2.0); (391885.8, 3748035.6, 29.0, 29.0, 2.0);
(391893.8, 3748088.4, 29.0, 29.0, 2.0); (391894.6, 3748143.8, 29.0, 29.0, 2.0);
(391894.1, 3748120.5, 29.0, 29.0, 2.0); (391894.6, 3748155.3, 29.0, 29.0, 2.0);
(391891.1, 3748182.9, 29.0, 29.0, 2.0); (391893.0, 3748196.0, 29.0, 29.0, 2.0);
(391927.3, 3748191.7, 29.0, 29.0, 2.0); (391928.6,

3748236.1, 29.0, 29.0, 2.0);
(391928.6, 3748260.0, 29.0, 29.0, 2.0); (391894.4,
3748207.5, 29.0, 29.0, 2.0);
(391891.1, 3748220.1, 29.0, 29.0, 2.0); (391891.1,
3748231.1, 29.0, 29.0, 2.0);
(391891.1, 3748243.4, 29.0, 29.0, 2.0); (391891.1,
3748255.7, 29.0, 29.0, 2.0);
(391895.2, 3748287.0, 29.0, 29.0, 2.0); (391895.4,
3748311.1, 29.0, 29.0, 2.0);
(391886.1, 3748326.9, 29.0, 29.0, 2.0); (391893.8,
3748337.1, 29.0, 29.0, 2.0);
(391896.5, 3748354.0, 29.0, 29.0, 2.0); (391943.5,
3748329.0, 29.0, 29.0, 2.0);
(391942.1, 3748346.0, 29.0, 29.0, 2.0); (391935.3,
3748361.9, 29.0, 29.0, 2.0);
(391897.0, 3748404.4, 29.0, 29.0, 2.0); (391938.9,
3748376.1, 29.0, 29.0, 2.0);
(391932.5, 3748387.6, 29.0, 29.0, 2.0); (391891.7,
3748427.3, 29.0, 29.0, 2.0);
(391929.1, 3748405.4, 29.0, 29.0, 2.0); (391929.4,
3748424.2, 29.0, 29.0, 2.0);
(391929.7, 3748439.2, 29.0, 29.0, 2.0); (391928.7,
3748454.6, 29.0, 29.0, 2.0);
(391897.0, 3748453.1, 29.0, 29.0, 2.0); (391866.1,
3747496.0, 29.0, 29.0, 2.0);
(391854.5, 3747480.5, 29.0, 29.0, 2.0); (391855.5,
3747526.9, 29.0, 29.0, 2.0);
(391854.2, 3747514.0, 29.0, 29.0, 2.0); (391855.2,
3747538.9, 29.0, 29.0, 2.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391855.5, 3747549.8, 29.0, 29.0, 2.0); (392423.8,
3747240.4, 29.0, 29.0, 2.0);
(391889.9, 3747651.9, 29.0, 29.0, 2.0); (391854.0,
3747577.0, 29.0, 29.0, 2.0);
(391854.2, 3747603.1, 29.0, 29.0, 2.0); (391855.0,
3747615.6, 29.0, 29.0, 2.0);
(391855.6, 3747626.4, 29.0, 29.0, 2.0); (391854.1,
3747455.5, 29.0, 29.0, 2.0);
(391853.4, 3747443.5, 29.0, 29.0, 2.0); (391888.7,
3747380.1, 29.0, 29.0, 2.0);
(391853.6, 3747430.3, 29.0, 29.0, 2.0); (391842.3,
3747485.1, 29.0, 29.0, 2.0);
(391705.1, 3747221.2, 29.0, 29.0, 2.0); (391890.3,
3747198.7, 29.0, 29.0, 2.0);
(391791.8, 3747248.3, 29.0, 29.0,
2.0);

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***

(1=YES; 0=NO)

```
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file:
KLGB_V9_ADJU\KLGB_v9.SFC Met
Version: 16216
Profile file:
KLGB_V9_ADJU\KLGB_v9.PFL
Surface format:
FREE

Profile format:
FREE

Surface station no.: 23129 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	-5.3	0.094	-9.000	-9.000	-999.	70.	14.3	0.10	2.68	1.00	1.13	322.	7.9	282.0	2.0
12	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	2.68	1.00	0.00	0.	7.9	281.4	2.0
12	01	01	1	03	-2.5	0.068	-9.000	-9.000	-999.	43.	11.4	0.10	2.68	1.00	0.74	79.	7.9	280.9	2.0
12	01	01	1	04	-3.2	0.075	-9.000	-9.000	-999.	49.	11.7	0.10	2.68	1.00	0.86				

```
137.    7.9  280.9    2.0
12 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.10   2.68   1.00    0.00
0.    7.9  280.4    2.0
12 01 01   1 06   -5.2  0.093 -9.000 -9.000 -999.   68.     14.0  0.10   2.68   1.00    1.11
92.    7.9  279.9    2.0
12 01 01   1 07   -2.3  0.066 -9.000 -9.000 -999.   41.     11.5  0.10   2.68   1.00    0.69
67.    7.9  278.8    2.0
12 01 01   1 08   -1.7  0.060 -9.000 -9.000 -999.   36.     11.4  0.10   2.68   0.54    0.65
91.    7.9  279.9    2.0
12 01 01   1 09   36.2 -9.000 -9.000 -9.000   37. -999. -99999.0  0.10   2.68   0.31    0.00
0.    7.9  283.8    2.0
12 01 01   1 10  108.4  0.139  0.707  0.009  119.  124.     -2.3  0.10   2.68   0.24    0.92
319.    7.9  287.5    2.0
12 01 01   1 11  160.5  0.114  1.137  0.005  334.   93.     -1.0  0.10   2.68   0.21    0.62
23.    7.9  292.5    2.0
12 01 01   1 12  186.7  0.125  1.473  0.005  623.  105.     -1.0  0.10   2.68   0.20    0.69
18.    7.9  295.4    2.0
12 01 01   1 13  186.8  0.130  1.761  0.005 1065.  112.     -1.1  0.10   2.68   0.20    0.74
250.    7.9  297.5    2.0
12 01 01   1 14  161.7  0.150  1.834  0.005 1387.  139.     -1.9  0.10   2.68   0.21    0.96
347.    7.9  300.4    2.0
12 01 01   1 15  105.5  0.243  1.633  0.005 1499.  288.    -12.4  0.10   2.68   0.24    2.11
194.    7.9  295.9    2.0
12 01 01   1 16   32.4  0.211  1.109  0.005 1530.  233.    -26.3  0.10   2.68   0.33    1.98
186.    7.9  295.4    2.0
12 01 01   1 17  -20.5  0.250 -9.000 -9.000 -999.  300.     69.2  0.10   2.68   0.60    2.81
293.    7.9  291.4    2.0
12 01 01   1 18  -25.4  0.257 -9.000 -9.000 -999.  313.     72.8  0.10   2.68   1.00    2.90
301.    7.9  288.1    2.0
12 01 01   1 19  -21.0  0.211 -9.000 -9.000 -999.  233.     49.0  0.10   2.68   1.00    2.40
313.    7.9  286.4    2.0
12 01 01   1 20  -25.7  0.258 -9.000 -9.000 -999.  315.     73.3  0.10   2.68   1.00    2.91
302.    7.9  286.4    2.0
12 01 01   1 21  -22.5  0.225 -9.000 -9.000 -999.  256.     55.7  0.10   2.68   1.00    2.55
306.    7.9  285.4    2.0
12 01 01   1 22   -9.3  0.126 -9.000 -9.000 -999.  111.     19.5  0.10   2.68   1.00    1.48
284.    7.9  285.9    2.0
12 01 01   1 23  -21.4  0.214 -9.000 -9.000 -999.  237.     50.3  0.10   2.68   1.00    2.43
282.    7.9  285.4    2.0
12 01 01   1 24  -30.1  0.300 -9.000 -9.000 -999.  394.     98.9  0.10   2.68   1.00    3.36
300.    7.9  284.2    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  322.    1.13   282.1   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/06/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        11:10:41

                      PAGE   9
 *** 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        , 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_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391891.24	3747480.41	0.05835	(12121624)	391892.01	3747456.00	0.04638	(12121624)
391965.04	3747447.61	0.07277c	(12122924)	391925.38	3747447.61	0.05944c	(12122924)
392089.38	3747454.66	0.10222c	(12122524)	392112.83	3747454.85	0.10371c	(12122524)
392033.31	3747443.03	0.07866c	(12122524)	392142.39	3747442.46	0.08400c	(12122524)
392336.71	3747437.69	0.04300	(13122724)	392429.96	3747448.18	0.02215	(13040124)
392412.42	3747555.73	0.02330	(15040624)	392343.77	3747480.03	0.04398	(16101624)
392217.30	3747461.24	0.11509c	(12122524)	392161.48	3747408.94	0.05321m	(15020724)
391879.25	3747513.22	0.05589	(12121624)	391891.65	3747546.98	0.06630	(14121624)
391891.84	3747573.68	0.06590	(14121624)	391884.40	3747601.90	0.05590	(12112924)
391891.08	3747641.76	0.04877	(12112924)	391889.35	3747663.46	0.04000	(12112924)
391883.45	3747699.92	0.02864	(12112924)	391881.92	3747730.82	0.02399	(13043024)
391884.40	3747754.47	0.02205	(13043024)	391885.36	3747780.40	0.02007	(16061124)
391883.83	3747768.01	0.02080	(13043024)	391493.56	3748488.26	0.00284	(14083124)
391947.12	3747875.71	0.01668	(16061124)	391983.08	3747875.94	0.01676	(16061124)
391885.46	3747791.74	0.01935	(16061124)	391889.32	3747804.03	0.01894	(16061124)
391887.50	3747815.86	0.01809	(16061124)	391874.76	3747826.10	0.01658	(16061124)
391892.74	3747852.04	0.01644	(16061124)	391892.51	3747880.49	0.01505	(16061124)
392032.89	3747873.67	0.01679	(12041924)	392140.29	3747873.36	0.01666	(16051624)
392233.52	3747864.86	0.01576	(14052424)	392523.19	3747518.42	0.01404	(16101624)
392655.00	3747574.84	0.00823	(15040624)	392733.47	3747870.77	0.00426	(12110824)
391927.56	3747940.84	0.01309	(16061124)	391927.83	3747987.42	0.01126	(16061124)
391940.95	3748045.52	0.00934	(16061124)	391926.76	3748083.27	0.00840	(16061124)
391928.37	3748118.62	0.00772	(12041924)	391927.56	3748149.14	0.00723	(12041924)
391892.49	3747904.69	0.01399	(16061124)	391891.96	3747917.81	0.01345	(16061124)
391891.15	3747931.74	0.01289	(16061124)	391885.26	3747942.98	0.01235	(16061124)
391893.29	3747955.03	0.01209	(16061124)	391893.83	3747978.59	0.01131	(16061124)
391893.03	3747994.39	0.01081	(16061124)	391885.80	3748035.62	0.00959	(16061124)
391893.83	3748088.36	0.00835	(16061124)	391894.63	3748143.78	0.00721	(16061124)

391894.10 3748120.49 0.00766 (16061124) 391894.63
3748155.30 0.00699 (16061124)
391891.15 3748182.87 0.00652 (16061124) 391893.03
3748195.99 0.00633 (12041924)
391927.30 3748191.71 0.00662 (12041924) 391928.64
3748236.15 0.00606 (12041924)
391928.64 3748259.98 0.00578 (12041924) 391894.37
3748207.50 0.00621 (12041924)
391891.15 3748220.09 0.00604 (12041924) 391891.15
3748231.06 0.00592 (12041924)
391891.15 3748243.38 0.00579 (12041924) 391891.15
3748255.70 0.00567 (12041924)
391895.17 3748287.02 0.00539 (12041924) 391895.44
3748311.12 0.00517 (12041924)
391886.07 3748326.91 0.00499 (12041924) 391893.83
3748337.09 0.00494 (12041924)
391896.46 3748353.98 0.00481 (12041924) 391943.47
3748329.02 0.00509 (12041924)
391942.12 3748346.05 0.00493 (12041924) 391935.35
3748361.91 0.00479 (12041924)
391897.02 3748404.40 0.00442 (12041924) 391938.93
3748376.12 0.00467 (12041924)
391932.47 3748387.64 0.00458 (12041924) 391891.74
3748427.33 0.00425 (12041924)

*** 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 , 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_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391929.07	3748405.45	0.00444	(12041924)	391929.40	3748424.21	0.00430	(12041924)
391929.73	3748439.17	0.00419	(12041924)	391928.74	3748454.63	0.00408	(12041924)
391897.00	3748453.15	0.00409	(12041924)	391866.08	3747495.99	0.04789	(12121624)
391854.46	3747480.49	0.04101	(12121624)	391855.46	3747526.86	0.04483	(14121624)
391854.21	3747513.99	0.04362	(12121624)	391855.21	3747538.86	0.04545	(14121624)
391855.46	3747549.85	0.04579	(14121624)	392423.79	3747240.43	0.01451	(16122724)
391889.87	3747651.95	0.04433	(12112924)	391853.95	3747577.01	0.04342	(14121624)

391854.20 3747603.13 0.03923 (12112924) 391854.95
3747615.63 0.03828 (12112924)
391855.57 3747626.38 0.03706 (12112924) 391854.14
3747455.54 0.03531 (12121624)
391853.42 3747443.48 0.03217 (12121624) 391888.71
3747380.11 0.02574c (12122924)
391853.60 3747430.34 0.02913 (12121624) 391842.26
3747485.07 0.03768 (12121624)
391705.13 3747221.17 0.00774c (12122924) 391890.27
3747198.72 0.00995c (12122924)
391791.77 3747248.29 0.01027c
(12122924)

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	0.11509c ON 12122524:	AT (392217.30, 3747461.24, 29.00, 29.00, 2.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** 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 1017 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 747 Calm Hours Identified

A Total of 270 Missing Hours Identified (0.62 Percent)

******** FATAL ERROR MESSAGES ********

*** NONE ***

******** WARNING MESSAGES ********

ME W186 128 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used 0.50

ME W187 128 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

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*** AERMOD Finishes Successfully ***

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**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/6/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt2 CO\14715 Ops
Alt2 CO.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
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CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 1 8
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID CO
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt2 CO.err"
CO FINISHED
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** AERMOD Source Pathway
**************************************
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SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
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   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
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   SRCPARAM VOL6         0.0053675097     5.000    10.435     1.400
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   SRCPARAM VOL12        0.0053675097     5.000    10.435     1.400
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   SRCPARAM VOL17        0.0053675097     5.000    10.435     1.400
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   SRCPARAM VOL32        0.0053675097     5.000    10.435     1.400
   SRCPARAM VOL33        0.0053675097     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Alt2 CO.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
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**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 8 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14715 OPS ALT2 CO.AD\01H1GALL.PLT" 31
   PLOTFILE 8 ALL 1ST "14715 OPS ALT2 CO.AD\08H1GALL.PLT" 32
   SUMMFILE "14715 Ops Alt2 CO.sum"
OU FINISHED
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** Project Parameters
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** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
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** Lakes Environmental AERMOD MPI
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**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/6/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt2 CO\14715 Ops
Alt2 CO.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
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CO STARTING
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   MODELOPT DFAULT CONC
   AVERTIME 1 8
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID CO
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt2 CO.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
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   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
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   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
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   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
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   SRCPARAM VOL7         0.0053675097     5.000    10.435     1.400
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   SRCPARAM VOL21        0.0053675097     5.000    10.435     1.400
   SRCPARAM VOL22        0.0053675097     5.000    10.435     1.400
   SRCPARAM VOL23        0.0053675097     5.000    10.435     1.400
   SRCPARAM VOL24        0.0053675097     5.000    10.435     1.400
   SRCPARAM VOL25        0.0053675097     5.000    10.435     1.400
   SRCPARAM VOL26        0.0053675097     5.000    10.435     1.400
   SRCPARAM VOL27        0.0053675097     5.000    10.435     1.400
   SRCPARAM VOL28        0.0053675097     5.000    10.435     1.400
   SRCPARAM VOL29        0.0053675097     5.000    10.435     1.400
   SRCPARAM VOL30        0.0053675097     5.000    10.435     1.400
   SRCPARAM VOL31        0.0053675097     5.000    10.435     1.400
   SRCPARAM VOL32        0.0053675097     5.000    10.435     1.400
   SRCPARAM VOL33        0.0053675097     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Alt2 CO.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
```

```
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 8 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14715 OPS ALT2 CO.AD\01H1GALL.PLT" 31
   PLOTFILE 8 ALL 1ST "14715 OPS ALT2 CO.AD\08H1GALL.PLT" 32
   SUMMFILE "14715 Ops Alt2 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     128       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     128       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 **********************************
 *** SETUP Finishes Successfully ***
 **********************************

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/06/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       11:25:48

                      PAGE   1
 *** 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    33 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   9818605.0 ;  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:     33 Source(s);       1 Source Group(s); and     105 Receptor(s)

               with:      0 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:     33 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) =    10.00 ;  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:   14715 Ops Alt2
 CO.err
 **File for Summary of Results:   14715 Ops Alt2
 CO.sum
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/06/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       11:25:48

                      PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.
              URBAN  EMISSION RATE
  SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ
  SOURCE  SCALAR VARY
    ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
```

(METERS) BY

VOL1	0	0.53675E-02	391943.2	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL2	0	0.53675E-02	391988.3	3747611.1	29.0	5.00	10.44	1.40
YES								
VOL3	0	0.53675E-02	392033.2	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL4	0	0.53675E-02	392078.1	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL5	0	0.53675E-02	392122.7	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL6	0	0.53675E-02	392167.6	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL7	0	0.53675E-02	392175.8	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL8	0	0.53675E-02	392175.0	3747565.7	29.0	5.00	10.44	1.40
YES								
VOL9	0	0.53675E-02	392129.7	3747566.0	29.0	5.00	10.44	1.40
YES								
VOL10	0	0.53675E-02	392084.7	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL11	0	0.53675E-02	392040.2	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL12	0	0.53675E-02	391995.7	3747566.3	29.0	5.00	10.44	1.40
YES								
VOL13	0	0.53675E-02	391951.4	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL14	0	0.53675E-02	391942.7	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL15	0	0.53675E-02	391942.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL16	0	0.53675E-02	391987.4	3747522.1	29.0	5.00	10.44	1.40
YES								
VOL17	0	0.53675E-02	392031.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL18	0	0.53675E-02	392076.4	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL19	0	0.53675E-02	392121.3	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL20	0	0.53675E-02	392165.8	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL21	0	0.53675E-02	392210.9	3747521.2	29.0	5.00	10.44	1.40
YES								
VOL22	0	0.53675E-02	392219.6	3747557.0	29.0	5.00	10.44	1.40
YES								
VOL23	0	0.53675E-02	392237.2	3747556.6	29.0	5.00	10.44	1.40
YES								
VOL24	0	0.53675E-02	392256.9	3747546.6	29.0	5.00	10.44	1.40
YES								
VOL25	0	0.53675E-02	392256.5	3747502.1	29.0	5.00	10.44	1.40
YES								
VOL26	0	0.53675E-02	392256.3	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL27	0	0.53675E-02	392211.2	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL28	0	0.53675E-02	392167.1	3747484.7	29.0	5.00	10.44	1.40
YES								
VOL29	0	0.53675E-02	392122.1	3747484.9	29.0	5.00	10.44	1.40
YES								
VOL30	0	0.53675E-02	392076.7	3747485.0	29.0	5.00	10.44	1.40
YES								
VOL31	0	0.53675E-02	392032.1	3747485.2	29.0	5.00	10.44	1.40
YES								

```
 VOL32            0   0.53675E-02  391987.1 3747485.9    29.0     5.00    10.44     1.40
 YES
 VOL33            0   0.53675E-02  391942.7 3747485.9    29.0     5.00    10.44     1.40
 YES
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/06/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       11:25:48

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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         ,

              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       ,
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/06/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       11:25:48

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                          *** SOURCE IDs DEFINED AS URBAN SOURCES ***

  URBAN ID   URBAN POP                                    SOURCE IDs
  --------   ---------                                    ----------


               9818605.   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       ,
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/06/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       11:25:48
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391891.2, 3747480.4, 29.0, 29.0, 2.0); (391892.0, 3747456.0, 29.0, 29.0, 2.0);
(391965.0, 3747447.6, 29.0, 29.0, 2.0); (391925.4, 3747447.6, 29.0, 29.0, 2.0);
(392089.4, 3747454.7, 29.0, 29.0, 2.0); (392112.8, 3747454.8, 29.0, 29.0, 2.0);
(392033.3, 3747443.0, 29.0, 29.0, 2.0); (392142.4, 3747442.5, 29.0, 29.0, 2.0);
(392336.7, 3747437.7, 29.0, 29.0, 2.0); (392430.0, 3747448.2, 29.0, 29.0, 2.0);
(392412.4, 3747555.7, 29.0, 29.0, 2.0); (392343.8, 3747480.0, 29.0, 29.0, 2.0);
(392217.3, 3747461.2, 29.0, 29.0, 2.0); (392161.5, 3747408.9, 29.0, 29.0, 2.0);
(391879.2, 3747513.2, 29.0, 29.0, 2.0); (391891.6, 3747547.0, 29.0, 29.0, 2.0);
(391891.8, 3747573.7, 29.0, 29.0, 2.0); (391884.4, 3747601.9, 29.0, 29.0, 2.0);
(391891.1, 3747641.8, 29.0, 29.0, 2.0); (391889.3, 3747663.5, 29.0, 29.0, 2.0);
(391883.5, 3747699.9, 29.0, 29.0, 2.0); (391881.9, 3747730.8, 29.0, 29.0, 2.0);
(391884.4, 3747754.5, 29.0, 29.0, 2.0); (391885.4, 3747780.4, 29.0, 29.0, 2.0);
(391883.8, 3747768.0, 29.0, 29.0, 2.0); (391493.6, 3748488.3, 29.0, 29.0, 2.0);
(391947.1, 3747875.7, 29.0, 29.0, 2.0); (391983.1, 3747875.9, 29.0, 29.0, 2.0);
(391885.5, 3747791.7, 29.0, 29.0, 2.0); (391889.3, 3747804.0, 29.0, 29.0, 2.0);
(391887.5, 3747815.9, 29.0, 29.0, 2.0); (391874.8, 3747826.1, 29.0, 29.0, 2.0);
(391892.7, 3747852.0, 29.0, 29.0, 2.0); (391892.5, 3747880.5, 29.0, 29.0, 2.0);
(392032.9, 3747873.7, 29.0, 29.0, 2.0); (392140.3, 3747873.4, 29.0, 29.0, 2.0);
(392233.5, 3747864.9, 29.0, 29.0, 2.0); (392523.2, 3747518.4, 28.3, 28.3, 2.0);
(392655.0, 3747574.8, 28.0, 28.0, 2.0); (392733.5, 3747870.8, 27.6, 27.6, 2.0);
(391927.6, 3747940.8, 29.0, 29.0, 2.0); (391927.8, 3747987.4, 29.0, 29.0, 2.0);
(391941.0, 3748045.5, 29.0, 29.0, 2.0); (391926.8, 3748083.3, 29.0, 29.0, 2.0);
(391928.4, 3748118.6, 29.0, 29.0, 2.0); (391927.6, 3748149.1, 29.0, 29.0, 2.0);
(391892.5, 3747904.7, 29.0, 29.0, 2.0); (391892.0, 3747917.8, 29.0, 29.0, 2.0);
(391891.1, 3747931.7, 29.0, 29.0, 2.0); (391885.3, 3747943.0, 29.0, 29.0, 2.0);
(391893.3, 3747955.0, 29.0, 29.0, 2.0); (391893.8, 3747978.6, 29.0, 29.0, 2.0);
(391893.0, 3747994.4, 29.0, 29.0, 2.0); (391885.8, 3748035.6, 29.0, 29.0, 2.0);
(391893.8, 3748088.4, 29.0, 29.0, 2.0); (391894.6, 3748143.8, 29.0, 29.0, 2.0);
(391894.1, 3748120.5, 29.0, 29.0, 2.0); (391894.6, 3748155.3, 29.0, 29.0, 2.0);
(391891.1, 3748182.9, 29.0, 29.0, 2.0); (391893.0,

3748196.0, 29.0, 29.0, 2.0);
(391927.3, 3748191.7, 29.0, 29.0, 2.0); (391928.6,
3748236.1, 29.0, 29.0, 2.0);
(391928.6, 3748260.0, 29.0, 29.0, 2.0); (391894.4,
3748207.5, 29.0, 29.0, 2.0);
(391891.1, 3748220.1, 29.0, 29.0, 2.0); (391891.1,
3748231.1, 29.0, 29.0, 2.0);
(391891.1, 3748243.4, 29.0, 29.0, 2.0); (391891.1,
3748255.7, 29.0, 29.0, 2.0);
(391895.2, 3748287.0, 29.0, 29.0, 2.0); (391895.4,
3748311.1, 29.0, 29.0, 2.0);
(391886.1, 3748326.9, 29.0, 29.0, 2.0); (391893.8,
3748337.1, 29.0, 29.0, 2.0);
(391896.5, 3748354.0, 29.0, 29.0, 2.0); (391943.5,
3748329.0, 29.0, 29.0, 2.0);
(391942.1, 3748346.0, 29.0, 29.0, 2.0); (391935.3,
3748361.9, 29.0, 29.0, 2.0);
(391897.0, 3748404.4, 29.0, 29.0, 2.0); (391938.9,
3748376.1, 29.0, 29.0, 2.0);
(391932.5, 3748387.6, 29.0, 29.0, 2.0); (391891.7,
3748427.3, 29.0, 29.0, 2.0);
(391929.1, 3748405.4, 29.0, 29.0, 2.0); (391929.4,
3748424.2, 29.0, 29.0, 2.0);
(391929.7, 3748439.2, 29.0, 29.0, 2.0); (391928.7,
3748454.6, 29.0, 29.0, 2.0);
(391897.0, 3748453.1, 29.0, 29.0, 2.0); (391866.1,
3747496.0, 29.0, 29.0, 2.0);
(391854.5, 3747480.5, 29.0, 29.0, 2.0); (391855.5,
3747526.9, 29.0, 29.0, 2.0);
(391854.2, 3747514.0, 29.0, 29.0, 2.0); (391855.2,
3747538.9, 29.0, 29.0, 2.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391855.5, 3747549.8, 29.0, 29.0, 2.0); (392423.8,
3747240.4, 29.0, 29.0, 2.0);
(391889.9, 3747651.9, 29.0, 29.0, 2.0); (391854.0,
3747577.0, 29.0, 29.0, 2.0);
(391854.2, 3747603.1, 29.0, 29.0, 2.0); (391855.0,
3747615.6, 29.0, 29.0, 2.0);
(391855.6, 3747626.4, 29.0, 29.0, 2.0); (391854.1,
3747455.5, 29.0, 29.0, 2.0);
(391853.4, 3747443.5, 29.0, 29.0, 2.0); (391888.7,
3747380.1, 29.0, 29.0, 2.0);
(391853.6, 3747430.3, 29.0, 29.0, 2.0); (391842.3,
3747485.1, 29.0, 29.0, 2.0);
(391705.1, 3747221.2, 29.0, 29.0, 2.0); (391890.3,
3747198.7, 29.0, 29.0, 2.0);
(391791.8, 3747248.3, 29.0, 29.0,
2.0);

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

```
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file:
KLGB_V9_ADJU\KLGB_v9.SFC Met
Version: 16216
Profile file:
KLGB_V9_ADJU\KLGB_v9.PFL
Surface format:
FREE

Profile format:
FREE

Surface station no.: 23129 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	-5.3	0.094	-9.000	-9.000	-999.	70.	14.3	0.10	2.68	1.00	1.13	322.	7.9	282.0	2.0
12	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	2.68	1.00	0.00	0.	7.9	281.4	2.0
12	01	01	1	03	-2.5	0.068	-9.000	-9.000	-999.	43.	11.4	0.10	2.68	1.00	0.74				

```
 79.    7.9  280.9    2.0
 12 01 01   1 04   -3.2  0.075 -9.000 -9.000 -999.   49.     11.7  0.10   2.68   1.00    0.86
 137.    7.9  280.9    2.0
 12 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.10   2.68   1.00    0.00
 0.    7.9  280.4    2.0
 12 01 01   1 06   -5.2  0.093 -9.000 -9.000 -999.   68.     14.0  0.10   2.68   1.00    1.11
 92.    7.9  279.9    2.0
 12 01 01   1 07   -2.3  0.066 -9.000 -9.000 -999.   41.     11.5  0.10   2.68   1.00    0.69
 67.    7.9  278.8    2.0
 12 01 01   1 08   -1.7  0.060 -9.000 -9.000 -999.   36.     11.4  0.10   2.68   0.54    0.65
 91.    7.9  279.9    2.0
 12 01 01   1 09   36.2 -9.000 -9.000 -9.000   37. -999. -99999.0  0.10   2.68   0.31    0.00
 0.    7.9  283.8    2.0
 12 01 01   1 10  108.4  0.139  0.707  0.009  119.  124.     -2.3  0.10   2.68   0.24    0.92
 319.    7.9  287.5    2.0
 12 01 01   1 11  160.5  0.114  1.137  0.005  334.   93.     -1.0  0.10   2.68   0.21    0.62
 23.    7.9  292.5    2.0
 12 01 01   1 12  186.7  0.125  1.473  0.005  623.  105.     -1.0  0.10   2.68   0.20    0.69
 18.    7.9  295.4    2.0
 12 01 01   1 13  186.8  0.130  1.761  0.005 1065.  112.     -1.1  0.10   2.68   0.20    0.74
 250.    7.9  297.5    2.0
 12 01 01   1 14  161.7  0.150  1.834  0.005 1387.  139.     -1.9  0.10   2.68   0.21    0.96
 347.    7.9  300.4    2.0
 12 01 01   1 15  105.5  0.243  1.633  0.005 1499.  288.    -12.4  0.10   2.68   0.24    2.11
 194.    7.9  295.9    2.0
 12 01 01   1 16   32.4  0.211  1.109  0.005 1530.  233.    -26.3  0.10   2.68   0.33    1.98
 186.    7.9  295.4    2.0
 12 01 01   1 17  -20.5  0.250 -9.000 -9.000 -999.  300.     69.2  0.10   2.68   0.60    2.81
 293.    7.9  291.4    2.0
 12 01 01   1 18  -25.4  0.257 -9.000 -9.000 -999.  313.     72.8  0.10   2.68   1.00    2.90
 301.    7.9  288.1    2.0
 12 01 01   1 19  -21.0  0.211 -9.000 -9.000 -999.  233.     49.0  0.10   2.68   1.00    2.40
 313.    7.9  286.4    2.0
 12 01 01   1 20  -25.7  0.258 -9.000 -9.000 -999.  315.     73.3  0.10   2.68   1.00    2.91
 302.    7.9  286.4    2.0
 12 01 01   1 21  -22.5  0.225 -9.000 -9.000 -999.  256.     55.7  0.10   2.68   1.00    2.55
 306.    7.9  285.4    2.0
 12 01 01   1 22   -9.3  0.126 -9.000 -9.000 -999.  111.     19.5  0.10   2.68   1.00    1.48
 284.    7.9  285.9    2.0
 12 01 01   1 23  -21.4  0.214 -9.000 -9.000 -999.  237.     50.3  0.10   2.68   1.00    2.43
 282.    7.9  285.4    2.0
 12 01 01   1 24  -30.1  0.300 -9.000 -9.000 -999.  394.     98.9  0.10   2.68   1.00    3.36
 300.    7.9  284.2    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  322.    1.13   282.1   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/06/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       11:25:48

                      PAGE   9
 *** 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       ,
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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)
391891.24	3747480.41	29.67431	(13041207)	391892.01	3747456.00	31.60754	(13041207)
391965.04	3747447.61	35.20501	(13041207)	391925.38	3747447.61	34.68476	(13041207)
392089.38	3747454.66	35.81436	(13041207)	392112.83	3747454.85	34.56191	(13041207)
392033.31	3747443.03	31.39168	(13041207)	392142.39	3747442.46	28.47930	(13041207)
392336.71	3747437.69	19.99666	(12122516)	392429.96	3747448.18	11.54809	(12122516)
392412.42	3747555.73	9.30875	(15011116)	392343.77	3747480.03	22.74182	(12122516)
392217.30	3747461.24	32.59659	(12071106)	392161.48	3747408.94	14.89962	(12071106)
391879.25	3747513.22	22.75009	(13041207)	391891.65	3747546.98	24.44480	(13110408)
391891.84	3747573.68	25.80389	(13110408)	391884.40	3747601.90	18.35387	(13110408)
391891.08	3747641.76	17.47530	(16021717)	391889.35	3747663.46	14.87837	(12112916)
391883.45	3747699.92	11.13675	(12112916)	391881.92	3747730.82	8.92594	(12112916)
391884.40	3747754.47	7.70308	(12112916)	391885.36	3747780.40	6.65617	(12112916)
391883.83	3747768.01	7.13044	(12112916)	391493.56	3748488.26	1.20358	(14091424)
391947.12	3747875.71	5.88280	(12020617)	391983.08	3747875.94	6.62710	(12020617)
391885.46	3747791.74	6.30493	(15091424)	391889.32	3747804.03	6.02990	(14091424)
391887.50	3747815.86	5.76930	(14091424)	391874.76	3747826.10	5.47459	(12082022)
391892.74	3747852.04	5.14438	(15072023)	391892.51	3747880.49	4.72748	(15091120)
392032.89	3747873.67	7.07980	(12020617)	392140.29	3747873.36	6.88142	(12020617)
392233.52	3747864.86	6.68591	(14041207)	392523.19	3747518.42	5.31763	(14091722)
392655.00	3747574.84	3.44498	(13092022)	392733.47	3747870.77	2.30956	(16092618)
391927.56	3747940.84	4.25717	(12020617)	391927.83	3747987.42	3.74818	(12020617)
391940.95	3748045.52	3.44732	(12020617)	391926.76	3748083.27	2.97244	(12020617)
391928.37	3748118.62	2.77879	(12020617)	391927.56	3748149.14	2.60431	(12020617)
391892.49	3747904.69	4.42228	(15091120)	391891.96	3747917.81	4.26395	(15091120)
391891.15	3747931.74	4.10245	(15091120)	391885.26	3747942.98	3.96303	(15091120)
391893.29	3747955.03	3.85458	(15091120)	391893.83	3747978.59	3.62425	(15091003)
391893.03	3747994.39	3.48503	(15091003)	391885.80	3748035.62	3.14643	(15091003)

391893.83 3748088.36 2.80015 (14080322) 391894.63
3748143.78 2.51082 (14080322)
391894.10 3748120.49 2.62794 (14080322) 391894.63
3748155.30 2.45473 (14080322)
391891.15 3748182.87 2.32494 (15081805) 391893.03
3748195.99 2.27096 (15081805)
391927.30 3748191.71 2.39714 (12020617) 391928.64
3748236.15 2.21963 (12020617)
391928.64 3748259.98 2.12710 (12020617) 391894.37
3748207.50 2.22395 (15081805)
391891.15 3748220.09 2.17165 (15081805) 391891.15
3748231.06 2.12875 (15081805)
391891.15 3748243.38 2.08176 (15081805) 391891.15
3748255.70 2.03732 (15081802)
391895.17 3748287.02 1.93665 (15081802) 391895.44
3748311.12 1.86088 (15081802)
391886.07 3748326.91 1.81094 (15081802) 391893.83
3748337.09 1.78318 (15081802)
391896.46 3748353.98 1.73758 (13052920) 391943.47
3748329.02 1.96579 (12020617)
391942.12 3748346.05 1.90216 (12020617) 391935.35
3748361.91 1.82063 (12020617)
391897.02 3748404.40 1.61208 (13052920) 391938.93
3748376.12 1.79360 (12020617)
391932.47 3748387.64 1.73218 (12020617) 391891.74
3748427.33 1.55763 (13052920)

*** 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)
391929.07	3748405.45	1.66874	(12020617)	391929.40	3748424.21	1.62106	(12020617)
391929.73	3748439.17	1.58457	(12020617)	391928.74	3748454.63	1.54327	(12020617)
391897.00	3748453.15	1.50418	(15073104)	391866.08	3747495.99	19.83246	(13041207)
391854.46	3747480.49	17.89526	(13041207)	391855.46	3747526.86	18.12022	(13110408)
391854.21	3747513.99	17.50679	(13110408)	391855.21	3747538.86	18.47601	(13110408)
391855.46	3747549.85	18.85285	(13110408)	392423.79	3747240.43	4.42693	(15090824)

391889.87 3747651.95 16.02844 (16021717) 391853.95
3747577.01 17.65131 (13110408)
391854.20 3747603.13 14.02247 (13110408) 391854.95
3747615.63 13.87033 (16112016)
391855.57 3747626.38 13.76844 (16112016) 391854.14
3747455.54 19.69490 (13041207)
391853.42 3747443.48 20.05755 (13041207) 391888.71
3747380.11 16.71465 (13041207)
391853.60 3747430.34 20.11781 (13041207) 391842.26
3747485.07 14.56131 (13041207)
391705.13 3747221.17 5.89401 (13041207) 391890.27
3747198.72 4.46291 (15071920)
391791.77 3747248.29 6.99203
(13041207)

*** 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 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391891.24	3747480.41	13.56381	(13012408)	391892.01	3747456.00	11.62763	(12121624)
391965.04	3747447.61	18.86431	(14021308)	391925.38	3747447.61	14.61442	(14021308)
392089.38	3747454.66	25.83598	(14021308)	392112.83	3747454.85	26.10482	(14021308)
392033.31	3747443.03	20.41942	(14021308)	392142.39	3747442.46	20.78856	(14021308)
392336.71	3747437.69	11.11618m	(12050224)	392429.96	3747448.18	6.02234	(16101608)
392412.42	3747555.73	7.29246	(12110824)	392343.77	3747480.03	10.88814	(16101608)
392217.30	3747461.24	28.66433	(14021308)	392161.48	3747408.94	13.20036	(14021308)
391879.25	3747513.22	13.51028	(14120308)	391891.65	3747546.98	16.07655	(14021308)
391891.84	3747573.68	15.79957	(14021308)	391884.40	3747601.90	13.57204	(13021808)
391891.08	3747641.76	12.44772	(13052508)	391889.35	3747663.46	10.47631	(13021908)
391883.45	3747699.92	7.88446	(13021908)	391881.92	3747730.82	6.58240	(15090108)
391884.40	3747754.47	6.03604	(13091724)	391885.36	3747780.40	5.52206	(13091724)

391883.83 3747768.01 5.74040 (13091724) 391493.56
3748488.26 0.93887 (13091724)
391947.12 3747875.71 4.18753 (15082008) 391983.08
3747875.94 4.29442 (13041424)
391885.46 3747791.74 5.30818 (13091724) 391889.32
3747804.03 5.13110 (13091724)
391887.50 3747815.86 4.90374 (13091724) 391874.76
3747826.10 4.61441 (13091724)
391892.74 3747852.04 4.35757 (13091724) 391892.51
3747880.49 3.94544 (13091724)
392032.89 3747873.67 4.44813 (13041424) 392140.29
3747873.36 4.16075 (12042924)
392233.52 3747864.86 4.31341 (12042924) 392523.19
3747518.42 3.90504 (15091524)
392655.00 3747574.84 2.71545 (12110824) 392733.47
3747870.77 1.50419 (12041224)
391927.56 3747940.84 3.31684 (15082008) 391927.83
3747987.42 2.85085 (15082008)
391940.95 3748045.52 2.53653 (13041424) 391926.76
3748083.27 2.28840 (13041424)
391928.37 3748118.62 2.12939 (13041424) 391927.56
3748149.14 1.99902 (13041424)
391892.49 3747904.69 3.62844 (13091724) 391891.96
3747917.81 3.46759 (13091724)
391891.15 3747931.74 3.32229 (15082008) 391885.26
3747942.98 3.19043 (15082008)
391893.29 3747955.03 3.11160 (15082008) 391893.83
3747978.59 2.90749 (15082008)
391893.03 3747994.39 2.77722 (15082008) 391885.80
3748035.62 2.46706 (15082008)
391893.83 3748088.36 2.13950 (13041424) 391894.63
3748143.78 1.93612 (13041424)
391894.10 3748120.49 2.01785 (13041424) 391894.63
3748155.30 1.89639 (13041424)
391891.15 3748182.87 1.79683 (13041424) 391893.03
3748195.99 1.76059 (13041424)
391927.30 3748191.71 1.83678 (13041424) 391928.64
3748236.15 1.68760 (13041424)
391928.64 3748259.98 1.61365 (13041424) 391894.37
3748207.50 1.72845 (13041424)
391891.15 3748220.09 1.68472 (13041424) 391891.15
3748231.06 1.65339 (13041424)
391891.15 3748243.38 1.61910 (13041424) 391891.15
3748255.70 1.58571 (13041424)
391895.17 3748287.02 1.50953 (13041424) 391895.44
3748311.12 1.45024 (13041424)
391886.07 3748326.91 1.40443 (13041424) 391893.83
3748337.09 1.38823 (13041424)
391896.46 3748353.98 1.35230 (13041424) 391943.47
3748329.02 1.42245 (13041424)
391942.12 3748346.05 1.37945 (13041424) 391935.35
3748361.91 1.34240 (13041424)
391897.02 3748404.40 1.24725 (13041424) 391938.93
3748376.12 1.30849 (13041424)
391932.47 3748387.64 1.28418 (13041424) 391891.74
3748427.33 1.20168 (13041424)

*** 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 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391929.07	3748405.45	1.24651	(13041424)	391929.40	3748424.21	1.20776	(13041424)
391929.73	3748439.17	1.17801	(13041424)	391928.74	3748454.63	1.14876	(13041424)
391897.00	3748453.15	1.15555	(13041424)	391866.08	3747495.99	11.58539	(13012408)
391854.46	3747480.49	10.36769	(13012408)	391855.46	3747526.86	11.38664	(14120308)
391854.21	3747513.99	11.10309	(14120308)	391855.21	3747538.86	11.41745	(14113008)
391855.46	3747549.85	11.65833	(14113008)	392423.79	3747240.43	4.06852c	(12120424)
391889.87	3747651.95	11.47896	(13052508)	391853.95	3747577.01	11.32932	(14113008)
391854.20	3747603.13	10.51275	(13021808)	391854.95	3747615.63	10.28732	(13021808)
391855.57	3747626.38	9.94031	(13021808)	391854.14	3747455.54	9.23399	(13012408)
391853.42	3747443.48	8.46556	(12121624)	391888.71	3747380.11	6.42485	(12120908)
391853.60	3747430.34	7.92036	(12121624)	391842.26	3747485.07	9.64336	(13012408)
391705.13	3747221.17	2.33137	(12120908)	391890.27	3747198.72	2.63317	(16121008)
391791.77	3747248.29	2.86753	(12120908)				

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF CO IN
MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID

ALL HIGH 1ST HIGH VALUE IS 35.81436 ON 13041207: AT (392089.38, 3747454.66, 29.00, 29.00, 2.00) DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** THE SUMMARY OF HIGHEST 8-HR RESULTS ***

** CONC OF CO IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE GRID-ID

ALL HIGH 1ST HIGH VALUE IS 28.66433 ON 14021308: AT (392217.30, 3747461.24, 29.00, 29.00, 2.00) DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** 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 1017 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 747 Calm Hours Identified

A Total of 270 Missing Hours Identified (0.62 Percent)

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********

```
ME W186     128       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187     128       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

   ************************************
   *** AERMOD Finishes Successfully ***
   ************************************
```

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/6/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt2 NOX\14715 Ops
Alt2 NOX.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 1
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID NOX
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt2 NOX.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
```

```
   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL2         0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL3         0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL4         0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL5         0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL6         0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL7         0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL8         0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL9         0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL10        0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL11        0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL12        0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL13        0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL14        0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL15        0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL16        0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL17        0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL18        0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL19        0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL20        0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL21        0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL22        0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL23        0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL24        0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL25        0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL26        0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL27        0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL28        0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL29        0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL30        0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL31        0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL32        0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL33        0.0004460325     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Alt2 NOX.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
```

```
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14715 OPS ALT2 NOX.AD\01H1GALL.PLT" 31
   SUMMFILE "14715 Ops Alt2 NOX.sum"
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/6/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt2 NOX\14715 Ops
Alt2 NOX.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 1
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID NOX
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt2 NOX.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
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   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
```

```
   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL2         0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL3         0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL4         0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL5         0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL6         0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL7         0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL8         0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL9         0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL10        0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL11        0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL12        0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL13        0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL14        0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL15        0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL16        0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL17        0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL18        0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL19        0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL20        0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL21        0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL22        0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL23        0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL24        0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL25        0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL26        0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL27        0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL28        0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL29        0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL30        0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL31        0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL32        0.0004460325     5.000    10.435     1.400
   SRCPARAM VOL33        0.0004460325     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Alt2 NOX.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
```

```
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14715 OPS ALT2 NOX.AD\01H1GALL.PLT" 31
   SUMMFILE "14715 Ops Alt2 NOX.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     128       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     128       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 **********************************
 *** SETUP Finishes Successfully ***
 **********************************

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/06/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        13:18:11

                      PAGE   1
 *** 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    33 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   9818605.0 ;  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:     33 Source(s);       1 Source Group(s); and     105 Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:     33 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) =    10.00 ;  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:   14715 Ops Alt2
 NOX.err
 **File for Summary of Results:   14715 Ops Alt2
 NOX.sum
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/06/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        13:18:11

                     PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.
              URBAN  EMISSION RATE
  SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ
  SOURCE  SCALAR VARY
    ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

- - - - - - - - - - - - -

VOL1	0	0.44603E-03	391943.2	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL2	0	0.44603E-03	391988.3	3747611.1	29.0	5.00	10.44	1.40
YES								
VOL3	0	0.44603E-03	392033.2	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL4	0	0.44603E-03	392078.1	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL5	0	0.44603E-03	392122.7	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL6	0	0.44603E-03	392167.6	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL7	0	0.44603E-03	392175.8	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL8	0	0.44603E-03	392175.0	3747565.7	29.0	5.00	10.44	1.40
YES								
VOL9	0	0.44603E-03	392129.7	3747566.0	29.0	5.00	10.44	1.40
YES								
VOL10	0	0.44603E-03	392084.7	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL11	0	0.44603E-03	392040.2	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL12	0	0.44603E-03	391995.7	3747566.3	29.0	5.00	10.44	1.40
YES								
VOL13	0	0.44603E-03	391951.4	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL14	0	0.44603E-03	391942.7	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL15	0	0.44603E-03	391942.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL16	0	0.44603E-03	391987.4	3747522.1	29.0	5.00	10.44	1.40
YES								
VOL17	0	0.44603E-03	392031.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL18	0	0.44603E-03	392076.4	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL19	0	0.44603E-03	392121.3	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL20	0	0.44603E-03	392165.8	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL21	0	0.44603E-03	392210.9	3747521.2	29.0	5.00	10.44	1.40
YES								
VOL22	0	0.44603E-03	392219.6	3747557.0	29.0	5.00	10.44	1.40
YES								
VOL23	0	0.44603E-03	392237.2	3747556.6	29.0	5.00	10.44	1.40
YES								
VOL24	0	0.44603E-03	392256.9	3747546.6	29.0	5.00	10.44	1.40
YES								
VOL25	0	0.44603E-03	392256.5	3747502.1	29.0	5.00	10.44	1.40
YES								
VOL26	0	0.44603E-03	392256.3	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL27	0	0.44603E-03	392211.2	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL28	0	0.44603E-03	392167.1	3747484.7	29.0	5.00	10.44	1.40
YES								
VOL29	0	0.44603E-03	392122.1	3747484.9	29.0	5.00	10.44	1.40
YES								
VOL30	0	0.44603E-03	392076.7	3747485.0	29.0	5.00	10.44	1.40
YES								
VOL31	0	0.44603E-03	392032.1	3747485.2	29.0	5.00	10.44	1.40
YES								
VOL32	0	0.44603E-03	391987.1	3747485.9	29.0	5.00	10.44	1.40
YES								

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
9818605.	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 ,

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391891.2, 3747480.4, 29.0, 29.0, 2.0); (391892.0, 3747456.0, 29.0, 29.0, 2.0);
(391965.0, 3747447.6, 29.0, 29.0, 2.0); (391925.4, 3747447.6, 29.0, 29.0, 2.0);
(392089.4, 3747454.7, 29.0, 29.0, 2.0); (392112.8, 3747454.8, 29.0, 29.0, 2.0);
(392033.3, 3747443.0, 29.0, 29.0, 2.0); (392142.4, 3747442.5, 29.0, 29.0, 2.0);
(392336.7, 3747437.7, 29.0, 29.0, 2.0); (392430.0, 3747448.2, 29.0, 29.0, 2.0);
(392412.4, 3747555.7, 29.0, 29.0, 2.0); (392343.8, 3747480.0, 29.0, 29.0, 2.0);
(392217.3, 3747461.2, 29.0, 29.0, 2.0); (392161.5, 3747408.9, 29.0, 29.0, 2.0);
(391879.2, 3747513.2, 29.0, 29.0, 2.0); (391891.6, 3747547.0, 29.0, 29.0, 2.0);
(391891.8, 3747573.7, 29.0, 29.0, 2.0); (391884.4, 3747601.9, 29.0, 29.0, 2.0);
(391891.1, 3747641.8, 29.0, 29.0, 2.0); (391889.3, 3747663.5, 29.0, 29.0, 2.0);
(391883.5, 3747699.9, 29.0, 29.0, 2.0); (391881.9, 3747730.8, 29.0, 29.0, 2.0);
(391884.4, 3747754.5, 29.0, 29.0, 2.0); (391885.4, 3747780.4, 29.0, 29.0, 2.0);
(391883.8, 3747768.0, 29.0, 29.0, 2.0); (391493.6, 3748488.3, 29.0, 29.0, 2.0);
(391947.1, 3747875.7, 29.0, 29.0, 2.0); (391983.1, 3747875.9, 29.0, 29.0, 2.0);
(391885.5, 3747791.7, 29.0, 29.0, 2.0); (391889.3, 3747804.0, 29.0, 29.0, 2.0);
(391887.5, 3747815.9, 29.0, 29.0, 2.0); (391874.8, 3747826.1, 29.0, 29.0, 2.0);
(391892.7, 3747852.0, 29.0, 29.0, 2.0); (391892.5, 3747880.5, 29.0, 29.0, 2.0);
(392032.9, 3747873.7, 29.0, 29.0, 2.0); (392140.3, 3747873.4, 29.0, 29.0, 2.0);
(392233.5, 3747864.9, 29.0, 29.0, 2.0); (392523.2, 3747518.4, 28.3, 28.3, 2.0);
(392655.0, 3747574.8, 28.0, 28.0, 2.0); (392733.5, 3747870.8, 27.6, 27.6, 2.0);
(391927.6, 3747940.8, 29.0, 29.0, 2.0); (391927.8, 3747987.4, 29.0, 29.0, 2.0);
(391941.0, 3748045.5, 29.0, 29.0, 2.0); (391926.8, 3748083.3, 29.0, 29.0, 2.0);
(391928.4, 3748118.6, 29.0, 29.0, 2.0); (391927.6, 3748149.1, 29.0, 29.0, 2.0);
(391892.5, 3747904.7, 29.0, 29.0, 2.0); (391892.0, 3747917.8, 29.0, 29.0, 2.0);
(391891.1, 3747931.7, 29.0, 29.0, 2.0); (391885.3, 3747943.0, 29.0, 29.0, 2.0);
(391893.3, 3747955.0, 29.0, 29.0, 2.0); (391893.8, 3747978.6, 29.0, 29.0, 2.0);
(391893.0, 3747994.4, 29.0, 29.0, 2.0); (391885.8, 3748035.6, 29.0, 29.0, 2.0);
(391893.8, 3748088.4, 29.0, 29.0, 2.0); (391894.6, 3748143.8, 29.0, 29.0, 2.0);
(391894.1, 3748120.5, 29.0, 29.0, 2.0); (391894.6, 3748155.3, 29.0, 29.0, 2.0);
(391891.1, 3748182.9, 29.0, 29.0, 2.0); (391893.0, 3748196.0, 29.0, 29.0, 2.0);
(391927.3, 3748191.7, 29.0, 29.0, 2.0); (391928.6,

3748236.1, 29.0, 29.0, 2.0);
(391928.6, 3748260.0, 29.0, 29.0, 2.0); (391894.4,
3748207.5, 29.0, 29.0, 2.0);
(391891.1, 3748220.1, 29.0, 29.0, 2.0); (391891.1,
3748231.1, 29.0, 29.0, 2.0);
(391891.1, 3748243.4, 29.0, 29.0, 2.0); (391891.1,
3748255.7, 29.0, 29.0, 2.0);
(391895.2, 3748287.0, 29.0, 29.0, 2.0); (391895.4,
3748311.1, 29.0, 29.0, 2.0);
(391886.1, 3748326.9, 29.0, 29.0, 2.0); (391893.8,
3748337.1, 29.0, 29.0, 2.0);
(391896.5, 3748354.0, 29.0, 29.0, 2.0); (391943.5,
3748329.0, 29.0, 29.0, 2.0);
(391942.1, 3748346.0, 29.0, 29.0, 2.0); (391935.3,
3748361.9, 29.0, 29.0, 2.0);
(391897.0, 3748404.4, 29.0, 29.0, 2.0); (391938.9,
3748376.1, 29.0, 29.0, 2.0);
(391932.5, 3748387.6, 29.0, 29.0, 2.0); (391891.7,
3748427.3, 29.0, 29.0, 2.0);
(391929.1, 3748405.4, 29.0, 29.0, 2.0); (391929.4,
3748424.2, 29.0, 29.0, 2.0);
(391929.7, 3748439.2, 29.0, 29.0, 2.0); (391928.7,
3748454.6, 29.0, 29.0, 2.0);
(391897.0, 3748453.1, 29.0, 29.0, 2.0); (391866.1,
3747496.0, 29.0, 29.0, 2.0);
(391854.5, 3747480.5, 29.0, 29.0, 2.0); (391855.5,
3747526.9, 29.0, 29.0, 2.0);
(391854.2, 3747514.0, 29.0, 29.0, 2.0); (391855.2,
3747538.9, 29.0, 29.0, 2.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391855.5, 3747549.8, 29.0, 29.0, 2.0); (392423.8,
3747240.4, 29.0, 29.0, 2.0);
(391889.9, 3747651.9, 29.0, 29.0, 2.0); (391854.0,
3747577.0, 29.0, 29.0, 2.0);
(391854.2, 3747603.1, 29.0, 29.0, 2.0); (391855.0,
3747615.6, 29.0, 29.0, 2.0);
(391855.6, 3747626.4, 29.0, 29.0, 2.0); (391854.1,
3747455.5, 29.0, 29.0, 2.0);
(391853.4, 3747443.5, 29.0, 29.0, 2.0); (391888.7,
3747380.1, 29.0, 29.0, 2.0);
(391853.6, 3747430.3, 29.0, 29.0, 2.0); (391842.3,
3747485.1, 29.0, 29.0, 2.0);
(391705.1, 3747221.2, 29.0, 29.0, 2.0); (391890.3,
3747198.7, 29.0, 29.0, 2.0);
(391791.8, 3747248.3, 29.0, 29.0,
2.0);

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***

(1=YES; 0=NO)

```
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file:
KLGB_V9_ADJU\KLGB_v9.SFC Met
Version: 16216
Profile file:
KLGB_V9_ADJU\KLGB_v9.PFL
Surface format:
FREE

Profile format:
FREE

Surface station no.: 23129 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	-5.3	0.094	-9.000	-9.000	-999.	70.	14.3	0.10	2.68	1.00	1.13	322.	7.9	282.0	2.0
12	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	2.68	1.00	0.00	0.	7.9	281.4	2.0
12	01	01	1	03	-2.5	0.068	-9.000	-9.000	-999.	43.	11.4	0.10	2.68	1.00	0.74	79.	7.9	280.9	2.0
12	01	01	1	04	-3.2	0.075	-9.000	-9.000	-999.	49.	11.7	0.10	2.68	1.00	0.86				

```
137.    7.9  280.9    2.0
12 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.10   2.68   1.00    0.00
0.    7.9  280.4    2.0
12 01 01   1 06   -5.2  0.093 -9.000 -9.000 -999.   68.     14.0  0.10   2.68   1.00    1.11
92.    7.9  279.9    2.0
12 01 01   1 07   -2.3  0.066 -9.000 -9.000 -999.   41.     11.5  0.10   2.68   1.00    0.69
67.    7.9  278.8    2.0
12 01 01   1 08   -1.7  0.060 -9.000 -9.000 -999.   36.     11.4  0.10   2.68   0.54    0.65
91.    7.9  279.9    2.0
12 01 01   1 09   36.2 -9.000 -9.000 -9.000   37. -999. -99999.0  0.10   2.68   0.31    0.00
0.    7.9  283.8    2.0
12 01 01   1 10  108.4  0.139  0.707  0.009  119.  124.     -2.3  0.10   2.68   0.24    0.92
319.    7.9  287.5    2.0
12 01 01   1 11  160.5  0.114  1.137  0.005  334.   93.     -1.0  0.10   2.68   0.21    0.62
23.    7.9  292.5    2.0
12 01 01   1 12  186.7  0.125  1.473  0.005  623.  105.     -1.0  0.10   2.68   0.20    0.69
18.    7.9  295.4    2.0
12 01 01   1 13  186.8  0.130  1.761  0.005 1065.  112.     -1.1  0.10   2.68   0.20    0.74
250.    7.9  297.5    2.0
12 01 01   1 14  161.7  0.150  1.834  0.005 1387.  139.     -1.9  0.10   2.68   0.21    0.96
347.    7.9  300.4    2.0
12 01 01   1 15  105.5  0.243  1.633  0.005 1499.  288.    -12.4  0.10   2.68   0.24    2.11
194.    7.9  295.9    2.0
12 01 01   1 16   32.4  0.211  1.109  0.005 1530.  233.    -26.3  0.10   2.68   0.33    1.98
186.    7.9  295.4    2.0
12 01 01   1 17  -20.5  0.250 -9.000 -9.000 -999.  300.     69.2  0.10   2.68   0.60    2.81
293.    7.9  291.4    2.0
12 01 01   1 18  -25.4  0.257 -9.000 -9.000 -999.  313.     72.8  0.10   2.68   1.00    2.90
301.    7.9  288.1    2.0
12 01 01   1 19  -21.0  0.211 -9.000 -9.000 -999.  233.     49.0  0.10   2.68   1.00    2.40
313.    7.9  286.4    2.0
12 01 01   1 20  -25.7  0.258 -9.000 -9.000 -999.  315.     73.3  0.10   2.68   1.00    2.91
302.    7.9  286.4    2.0
12 01 01   1 21  -22.5  0.225 -9.000 -9.000 -999.  256.     55.7  0.10   2.68   1.00    2.55
306.    7.9  285.4    2.0
12 01 01   1 22   -9.3  0.126 -9.000 -9.000 -999.  111.     19.5  0.10   2.68   1.00    1.48
284.    7.9  285.9    2.0
12 01 01   1 23  -21.4  0.214 -9.000 -9.000 -999.  237.     50.3  0.10   2.68   1.00    2.43
282.    7.9  285.4    2.0
12 01 01   1 24  -30.1  0.300 -9.000 -9.000 -999.  394.     98.9  0.10   2.68   1.00    3.36
300.    7.9  284.2    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  322.    1.13   282.1   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/06/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       13:18:11

                      PAGE   9
 *** 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 NOX IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391891.24	3747480.41	2.46589	(13041207)	391892.01	3747456.00	2.62654	(13041207)
391965.04	3747447.61	2.92549	(13041207)	391925.38	3747447.61	2.88225	(13041207)
392089.38	3747454.66	2.97612	(13041207)	392112.83	3747454.85	2.87205	(13041207)
392033.31	3747443.03	2.60860	(13041207)	392142.39	3747442.46	2.36659	(13041207)
392336.71	3747437.69	1.66169	(12122516)	392429.96	3747448.18	0.95963	(12122516)
392412.42	3747555.73	0.77354	(15011116)	392343.77	3747480.03	1.88981	(12122516)
392217.30	3747461.24	2.70873	(12071106)	392161.48	3747408.94	1.23814	(12071106)
391879.25	3747513.22	1.89050	(13041207)	391891.65	3747546.98	2.03133	(13110408)
391891.84	3747573.68	2.14427	(13110408)	391884.40	3747601.90	1.52518	(13110408)
391891.08	3747641.76	1.45217	(16021717)	391889.35	3747663.46	1.23637	(12112916)
391883.45	3747699.92	0.92545	(12112916)	391881.92	3747730.82	0.74173	(12112916)
391884.40	3747754.47	0.64012	(12112916)	391885.36	3747780.40	0.55312	(12112916)
391883.83	3747768.01	0.59253	(12112916)	391493.56	3748488.26	0.10002	(14091424)
391947.12	3747875.71	0.48885	(12020617)	391983.08	3747875.94	0.55070	(12020617)
391885.46	3747791.74	0.52393	(15091424)	391889.32	3747804.03	0.50108	(14091424)
391887.50	3747815.86	0.47942	(14091424)	391874.76	3747826.10	0.45493	(12082022)
391892.74	3747852.04	0.42749	(15072023)	391892.51	3747880.49	0.39285	(15091120)
392032.89	3747873.67	0.58832	(12020617)	392140.29	3747873.36	0.57184	(12020617)
392233.52	3747864.86	0.55559	(14041207)	392523.19	3747518.42	0.44189	(14091722)
392655.00	3747574.84	0.28627	(13092022)	392733.47	3747870.77	0.19192	(16092618)
391927.56	3747940.84	0.35376	(12020617)	391927.83	3747987.42	0.31147	(12020617)
391940.95	3748045.52	0.28647	(12020617)	391926.76	3748083.27	0.24701	(12020617)
391928.37	3748118.62	0.23091	(12020617)	391927.56	3748149.14	0.21641	(12020617)
391892.49	3747904.69	0.36749	(15091120)	391891.96	3747917.81	0.35433	(15091120)
391891.15	3747931.74	0.34091	(15091120)	391885.26	3747942.98	0.32932	(15091120)
391893.29	3747955.03	0.32031	(15091120)	391893.83	3747978.59	0.30117	(15091003)
391893.03	3747994.39	0.28960	(15091003)	391885.80	3748035.62	0.26146	(15091003)
391893.83	3748088.36	0.23269	(14080322)	391894.63	3748143.78	0.20865	(14080322)

391894.10 3748120.49 0.21838 (14080322) 391894.63
3748155.30 0.20398 (14080322)
391891.15 3748182.87 0.19320 (15081805) 391893.03
3748195.99 0.18871 (15081805)
391927.30 3748191.71 0.19920 (12020617) 391928.64
3748236.15 0.18445 (12020617)
391928.64 3748259.98 0.17676 (12020617) 391894.37
3748207.50 0.18481 (15081805)
391891.15 3748220.09 0.18046 (15081805) 391891.15
3748231.06 0.17690 (15081805)
391891.15 3748243.38 0.17299 (15081805) 391891.15
3748255.70 0.16930 (15081802)
391895.17 3748287.02 0.16093 (15081802) 391895.44
3748311.12 0.15464 (15081802)
391886.07 3748326.91 0.15049 (15081802) 391893.83
3748337.09 0.14818 (15081802)
391896.46 3748353.98 0.14439 (13052920) 391943.47
3748329.02 0.16335 (12020617)
391942.12 3748346.05 0.15807 (12020617) 391935.35
3748361.91 0.15129 (12020617)
391897.02 3748404.40 0.13396 (13052920) 391938.93
3748376.12 0.14905 (12020617)
391932.47 3748387.64 0.14394 (12020617) 391891.74
3748427.33 0.12944 (13052920)

*** 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 NOX IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391929.07	3748405.45	0.13867	(12020617)	391929.40	3748424.21	0.13471	(12020617)
391929.73	3748439.17	0.13168	(12020617)	391928.74	3748454.63	0.12824	(12020617)
391897.00	3748453.15	0.12500	(15073104)	391866.08	3747495.99	1.64805	(13041207)
391854.46	3747480.49	1.48707	(13041207)	391855.46	3747526.86	1.50576	(13110408)
391854.21	3747513.99	1.45479	(13110408)	391855.21	3747538.86	1.53533	(13110408)
391855.46	3747549.85	1.56665	(13110408)	392423.79	3747240.43	0.36787	(15090824)
391889.87	3747651.95	1.33194	(16021717)	391853.95	3747577.01	1.46680	(13110408)

391854.20 3747603.13 1.16525 (13110408) 391854.95
3747615.63 1.15260 (16112016)
391855.57 3747626.38 1.14414 (16112016) 391854.14
3747455.54 1.63662 (13041207)
391853.42 3747443.48 1.66675 (13041207) 391888.71
3747380.11 1.38896 (13041207)
391853.60 3747430.34 1.67176 (13041207) 391842.26
3747485.07 1.21002 (13041207)
391705.13 3747221.17 0.48978 (13041207) 391890.27
3747198.72 0.37086 (15071920)
391791.77 3747248.29 0.58103
(13041207)

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF NOX IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	1ST HIGH	VALUE IS 2.97612	ON 13041207: AT (392089.38, 3747454.66, 29.00, 29.00, 2.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** 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 1017 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 747 Calm Hours Identified

A Total of 270 Missing Hours Identified (0.62 Percent)

******** FATAL ERROR MESSAGES ********

*** NONE ***

******** WARNING MESSAGES ********

ME W186 128 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used 0.50

ME W187 128 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

****

*** AERMOD Finishes Successfully ***

****

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/6/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt2 PM10\14715 Ops
Alt2 PM10.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID PM_10
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt2 PM10.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
```

```
   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL2         0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL3         0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL4         0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL5         0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL6         0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL7         0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL8         0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL9         0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL10        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL11        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL12        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL13        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL14        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL15        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL16        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL17        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL18        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL19        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL20        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL21        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL22        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL23        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL24        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL25        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL26        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL27        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL28        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL29        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL30        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL31        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL32        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL33        0.0000415793     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Alt2 PM10.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
```

```
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "14715 OPS ALT2 PM10.AD\24H1GALL.PLT" 31
   SUMMFILE "14715 Ops Alt2 PM10.sum"
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/6/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt2 PM10\14715 Ops
Alt2 PM10.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID PM_10
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt2 PM10.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
```

```
   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL2         0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL3         0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL4         0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL5         0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL6         0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL7         0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL8         0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL9         0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL10        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL11        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL12        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL13        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL14        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL15        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL16        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL17        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL18        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL19        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL20        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL21        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL22        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL23        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL24        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL25        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL26        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL27        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL28        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL29        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL30        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL31        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL32        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL33        0.0000415793     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Alt2 PM10.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
```

```
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "14715 OPS ALT2 PM10.AD\24H1GALL.PLT" 31
   SUMMFILE "14715 Ops Alt2 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     128       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     128       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 *********************************
 *** SETUP Finishes Successfully ***
 *********************************

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/06/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        13:24:36

                      PAGE   1
 *** 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    33 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   9818605.0 ;  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:     33 Source(s);       1 Source Group(s); and     105 Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:     33 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) =    10.00 ;  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:   14715 Ops Alt2
 PM10.err
 **File for Summary of Results:   14715 Ops Alt2
 PM10.sum
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/06/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       13:24:36

                      PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.
              URBAN  EMISSION RATE
  SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ
  SOURCE  SCALAR VARY
    ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)             BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

- - - - - - - - - - - - -

VOL1	0	0.41579E-04	391943.2	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL2	0	0.41579E-04	391988.3	3747611.1	29.0	5.00	10.44	1.40
YES								
VOL3	0	0.41579E-04	392033.2	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL4	0	0.41579E-04	392078.1	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL5	0	0.41579E-04	392122.7	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL6	0	0.41579E-04	392167.6	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL7	0	0.41579E-04	392175.8	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL8	0	0.41579E-04	392175.0	3747565.7	29.0	5.00	10.44	1.40
YES								
VOL9	0	0.41579E-04	392129.7	3747566.0	29.0	5.00	10.44	1.40
YES								
VOL10	0	0.41579E-04	392084.7	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL11	0	0.41579E-04	392040.2	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL12	0	0.41579E-04	391995.7	3747566.3	29.0	5.00	10.44	1.40
YES								
VOL13	0	0.41579E-04	391951.4	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL14	0	0.41579E-04	391942.7	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL15	0	0.41579E-04	391942.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL16	0	0.41579E-04	391987.4	3747522.1	29.0	5.00	10.44	1.40
YES								
VOL17	0	0.41579E-04	392031.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL18	0	0.41579E-04	392076.4	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL19	0	0.41579E-04	392121.3	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL20	0	0.41579E-04	392165.8	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL21	0	0.41579E-04	392210.9	3747521.2	29.0	5.00	10.44	1.40
YES								
VOL22	0	0.41579E-04	392219.6	3747557.0	29.0	5.00	10.44	1.40
YES								
VOL23	0	0.41579E-04	392237.2	3747556.6	29.0	5.00	10.44	1.40
YES								
VOL24	0	0.41579E-04	392256.9	3747546.6	29.0	5.00	10.44	1.40
YES								
VOL25	0	0.41579E-04	392256.5	3747502.1	29.0	5.00	10.44	1.40
YES								
VOL26	0	0.41579E-04	392256.3	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL27	0	0.41579E-04	392211.2	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL28	0	0.41579E-04	392167.1	3747484.7	29.0	5.00	10.44	1.40
YES								
VOL29	0	0.41579E-04	392122.1	3747484.9	29.0	5.00	10.44	1.40
YES								
VOL30	0	0.41579E-04	392076.7	3747485.0	29.0	5.00	10.44	1.40
YES								
VOL31	0	0.41579E-04	392032.1	3747485.2	29.0	5.00	10.44	1.40
YES								
VOL32	0	0.41579E-04	391987.1	3747485.9	29.0	5.00	10.44	1.40
YES								

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
9818605.	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 ,

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391891.2, 3747480.4, 29.0, 29.0, 2.0); (391892.0, 3747456.0, 29.0, 29.0, 2.0);
(391965.0, 3747447.6, 29.0, 29.0, 2.0); (391925.4, 3747447.6, 29.0, 29.0, 2.0);
(392089.4, 3747454.7, 29.0, 29.0, 2.0); (392112.8, 3747454.8, 29.0, 29.0, 2.0);
(392033.3, 3747443.0, 29.0, 29.0, 2.0); (392142.4, 3747442.5, 29.0, 29.0, 2.0);
(392336.7, 3747437.7, 29.0, 29.0, 2.0); (392430.0, 3747448.2, 29.0, 29.0, 2.0);
(392412.4, 3747555.7, 29.0, 29.0, 2.0); (392343.8, 3747480.0, 29.0, 29.0, 2.0);
(392217.3, 3747461.2, 29.0, 29.0, 2.0); (392161.5, 3747408.9, 29.0, 29.0, 2.0);
(391879.2, 3747513.2, 29.0, 29.0, 2.0); (391891.6, 3747547.0, 29.0, 29.0, 2.0);
(391891.8, 3747573.7, 29.0, 29.0, 2.0); (391884.4, 3747601.9, 29.0, 29.0, 2.0);
(391891.1, 3747641.8, 29.0, 29.0, 2.0); (391889.3, 3747663.5, 29.0, 29.0, 2.0);
(391883.5, 3747699.9, 29.0, 29.0, 2.0); (391881.9, 3747730.8, 29.0, 29.0, 2.0);
(391884.4, 3747754.5, 29.0, 29.0, 2.0); (391885.4, 3747780.4, 29.0, 29.0, 2.0);
(391883.8, 3747768.0, 29.0, 29.0, 2.0); (391493.6, 3748488.3, 29.0, 29.0, 2.0);
(391947.1, 3747875.7, 29.0, 29.0, 2.0); (391983.1, 3747875.9, 29.0, 29.0, 2.0);
(391885.5, 3747791.7, 29.0, 29.0, 2.0); (391889.3, 3747804.0, 29.0, 29.0, 2.0);
(391887.5, 3747815.9, 29.0, 29.0, 2.0); (391874.8, 3747826.1, 29.0, 29.0, 2.0);
(391892.7, 3747852.0, 29.0, 29.0, 2.0); (391892.5, 3747880.5, 29.0, 29.0, 2.0);
(392032.9, 3747873.7, 29.0, 29.0, 2.0); (392140.3, 3747873.4, 29.0, 29.0, 2.0);
(392233.5, 3747864.9, 29.0, 29.0, 2.0); (392523.2, 3747518.4, 28.3, 28.3, 2.0);
(392655.0, 3747574.8, 28.0, 28.0, 2.0); (392733.5, 3747870.8, 27.6, 27.6, 2.0);
(391927.6, 3747940.8, 29.0, 29.0, 2.0); (391927.8, 3747987.4, 29.0, 29.0, 2.0);
(391941.0, 3748045.5, 29.0, 29.0, 2.0); (391926.8, 3748083.3, 29.0, 29.0, 2.0);
(391928.4, 3748118.6, 29.0, 29.0, 2.0); (391927.6, 3748149.1, 29.0, 29.0, 2.0);
(391892.5, 3747904.7, 29.0, 29.0, 2.0); (391892.0, 3747917.8, 29.0, 29.0, 2.0);
(391891.1, 3747931.7, 29.0, 29.0, 2.0); (391885.3, 3747943.0, 29.0, 29.0, 2.0);
(391893.3, 3747955.0, 29.0, 29.0, 2.0); (391893.8, 3747978.6, 29.0, 29.0, 2.0);
(391893.0, 3747994.4, 29.0, 29.0, 2.0); (391885.8, 3748035.6, 29.0, 29.0, 2.0);
(391893.8, 3748088.4, 29.0, 29.0, 2.0); (391894.6, 3748143.8, 29.0, 29.0, 2.0);
(391894.1, 3748120.5, 29.0, 29.0, 2.0); (391894.6, 3748155.3, 29.0, 29.0, 2.0);
(391891.1, 3748182.9, 29.0, 29.0, 2.0); (391893.0, 3748196.0, 29.0, 29.0, 2.0);
(391927.3, 3748191.7, 29.0, 29.0, 2.0); (391928.6,

3748236.1, 29.0, 29.0, 2.0);
(391928.6, 3748260.0, 29.0, 29.0, 2.0); (391894.4,
3748207.5, 29.0, 29.0, 2.0);
(391891.1, 3748220.1, 29.0, 29.0, 2.0); (391891.1,
3748231.1, 29.0, 29.0, 2.0);
(391891.1, 3748243.4, 29.0, 29.0, 2.0); (391891.1,
3748255.7, 29.0, 29.0, 2.0);
(391895.2, 3748287.0, 29.0, 29.0, 2.0); (391895.4,
3748311.1, 29.0, 29.0, 2.0);
(391886.1, 3748326.9, 29.0, 29.0, 2.0); (391893.8,
3748337.1, 29.0, 29.0, 2.0);
(391896.5, 3748354.0, 29.0, 29.0, 2.0); (391943.5,
3748329.0, 29.0, 29.0, 2.0);
(391942.1, 3748346.0, 29.0, 29.0, 2.0); (391935.3,
3748361.9, 29.0, 29.0, 2.0);
(391897.0, 3748404.4, 29.0, 29.0, 2.0); (391938.9,
3748376.1, 29.0, 29.0, 2.0);
(391932.5, 3748387.6, 29.0, 29.0, 2.0); (391891.7,
3748427.3, 29.0, 29.0, 2.0);
(391929.1, 3748405.4, 29.0, 29.0, 2.0); (391929.4,
3748424.2, 29.0, 29.0, 2.0);
(391929.7, 3748439.2, 29.0, 29.0, 2.0); (391928.7,
3748454.6, 29.0, 29.0, 2.0);
(391897.0, 3748453.1, 29.0, 29.0, 2.0); (391866.1,
3747496.0, 29.0, 29.0, 2.0);
(391854.5, 3747480.5, 29.0, 29.0, 2.0); (391855.5,
3747526.9, 29.0, 29.0, 2.0);
(391854.2, 3747514.0, 29.0, 29.0, 2.0); (391855.2,
3747538.9, 29.0, 29.0, 2.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391855.5, 3747549.8, 29.0, 29.0, 2.0); (392423.8,
3747240.4, 29.0, 29.0, 2.0);
(391889.9, 3747651.9, 29.0, 29.0, 2.0); (391854.0,
3747577.0, 29.0, 29.0, 2.0);
(391854.2, 3747603.1, 29.0, 29.0, 2.0); (391855.0,
3747615.6, 29.0, 29.0, 2.0);
(391855.6, 3747626.4, 29.0, 29.0, 2.0); (391854.1,
3747455.5, 29.0, 29.0, 2.0);
(391853.4, 3747443.5, 29.0, 29.0, 2.0); (391888.7,
3747380.1, 29.0, 29.0, 2.0);
(391853.6, 3747430.3, 29.0, 29.0, 2.0); (391842.3,
3747485.1, 29.0, 29.0, 2.0);
(391705.1, 3747221.2, 29.0, 29.0, 2.0); (391890.3,
3747198.7, 29.0, 29.0, 2.0);
(391791.8, 3747248.3, 29.0, 29.0,
2.0);

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***

(1=YES; 0=NO)

```
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file:
KLGB_V9_ADJU\KLGB_v9.SFC Met
Version: 16216
Profile file:
KLGB_V9_ADJU\KLGB_v9.PFL
Surface format:
FREE

Profile format:
FREE

Surface station no.: 23129 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	-5.3	0.094	-9.000	-9.000	-999.	70.	14.3	0.10	2.68	1.00	1.13	322.	7.9	282.0	2.0
12	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	2.68	1.00	0.00	0.	7.9	281.4	2.0
12	01	01	1	03	-2.5	0.068	-9.000	-9.000	-999.	43.	11.4	0.10	2.68	1.00	0.74	79.	7.9	280.9	2.0
12	01	01	1	04	-3.2	0.075	-9.000	-9.000	-999.	49.	11.7	0.10	2.68	1.00	0.86				

```
137.    7.9  280.9    2.0
12 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.10   2.68   1.00    0.00
0.    7.9  280.4    2.0
12 01 01   1 06   -5.2  0.093 -9.000 -9.000 -999.   68.     14.0  0.10   2.68   1.00    1.11
92.    7.9  279.9    2.0
12 01 01   1 07   -2.3  0.066 -9.000 -9.000 -999.   41.     11.5  0.10   2.68   1.00    0.69
67.    7.9  278.8    2.0
12 01 01   1 08   -1.7  0.060 -9.000 -9.000 -999.   36.     11.4  0.10   2.68   0.54    0.65
91.    7.9  279.9    2.0
12 01 01   1 09   36.2 -9.000 -9.000 -9.000   37. -999. -99999.0  0.10   2.68   0.31    0.00
0.    7.9  283.8    2.0
12 01 01   1 10  108.4  0.139  0.707  0.009  119.  124.     -2.3  0.10   2.68   0.24    0.92
319.    7.9  287.5    2.0
12 01 01   1 11  160.5  0.114  1.137  0.005  334.   93.     -1.0  0.10   2.68   0.21    0.62
23.    7.9  292.5    2.0
12 01 01   1 12  186.7  0.125  1.473  0.005  623.  105.     -1.0  0.10   2.68   0.20    0.69
18.    7.9  295.4    2.0
12 01 01   1 13  186.8  0.130  1.761  0.005 1065.  112.     -1.1  0.10   2.68   0.20    0.74
250.    7.9  297.5    2.0
12 01 01   1 14  161.7  0.150  1.834  0.005 1387.  139.     -1.9  0.10   2.68   0.21    0.96
347.    7.9  300.4    2.0
12 01 01   1 15  105.5  0.243  1.633  0.005 1499.  288.    -12.4  0.10   2.68   0.24    2.11
194.    7.9  295.9    2.0
12 01 01   1 16   32.4  0.211  1.109  0.005 1530.  233.    -26.3  0.10   2.68   0.33    1.98
186.    7.9  295.4    2.0
12 01 01   1 17  -20.5  0.250 -9.000 -9.000 -999.  300.     69.2  0.10   2.68   0.60    2.81
293.    7.9  291.4    2.0
12 01 01   1 18  -25.4  0.257 -9.000 -9.000 -999.  313.     72.8  0.10   2.68   1.00    2.90
301.    7.9  288.1    2.0
12 01 01   1 19  -21.0  0.211 -9.000 -9.000 -999.  233.     49.0  0.10   2.68   1.00    2.40
313.    7.9  286.4    2.0
12 01 01   1 20  -25.7  0.258 -9.000 -9.000 -999.  315.     73.3  0.10   2.68   1.00    2.91
302.    7.9  286.4    2.0
12 01 01   1 21  -22.5  0.225 -9.000 -9.000 -999.  256.     55.7  0.10   2.68   1.00    2.55
306.    7.9  285.4    2.0
12 01 01   1 22   -9.3  0.126 -9.000 -9.000 -999.  111.     19.5  0.10   2.68   1.00    1.48
284.    7.9  285.9    2.0
12 01 01   1 23  -21.4  0.214 -9.000 -9.000 -999.  237.     50.3  0.10   2.68   1.00    2.43
282.    7.9  285.4    2.0
12 01 01   1 24  -30.1  0.300 -9.000 -9.000 -999.  394.     98.9  0.10   2.68   1.00    3.36
300.    7.9  284.2    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  322.    1.13   282.1   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/06/23
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***       13:24:36

                      PAGE   9
 *** 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        , 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_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391891.24	3747480.41	0.08023	(12121624)	391892.01	3747456.00	0.06377	(12121624)
391965.04	3747447.61	0.10006c	(12122924)	391925.38	3747447.61	0.08173c	(12122924)
392089.38	3747454.66	0.14055c	(12122524)	392112.83	3747454.85	0.14260c	(12122524)
392033.31	3747443.03	0.10815c	(12122524)	392142.39	3747442.46	0.11550c	(12122524)
392336.71	3747437.69	0.05913	(13122724)	392429.96	3747448.18	0.03046	(13040124)
392412.42	3747555.73	0.03204	(15040624)	392343.77	3747480.03	0.06048	(16101624)
392217.30	3747461.24	0.15825c	(12122524)	392161.48	3747408.94	0.07316m	(15020724)
391879.25	3747513.22	0.07685	(12121624)	391891.65	3747546.98	0.09116	(14121624)
391891.84	3747573.68	0.09062	(14121624)	391884.40	3747601.90	0.07686	(12112924)
391891.08	3747641.76	0.06706	(12112924)	391889.35	3747663.46	0.05500	(12112924)
391883.45	3747699.92	0.03938	(12112924)	391881.92	3747730.82	0.03299	(13043024)
391884.40	3747754.47	0.03032	(13043024)	391885.36	3747780.40	0.02759	(16061124)
391883.83	3747768.01	0.02860	(13043024)	391493.56	3748488.26	0.00390	(14083124)
391947.12	3747875.71	0.02293	(16061124)	391983.08	3747875.94	0.02304	(16061124)
391885.46	3747791.74	0.02661	(16061124)	391889.32	3747804.03	0.02605	(16061124)
391887.50	3747815.86	0.02487	(16061124)	391874.76	3747826.10	0.02280	(16061124)
391892.74	3747852.04	0.02261	(16061124)	391892.51	3747880.49	0.02069	(16061124)
392032.89	3747873.67	0.02308	(12041924)	392140.29	3747873.36	0.02291	(16051624)
392233.52	3747864.86	0.02168	(14052424)	392523.19	3747518.42	0.01930	(16101624)
392655.00	3747574.84	0.01132	(15040624)	392733.47	3747870.77	0.00586	(12110824)
391927.56	3747940.84	0.01799	(16061124)	391927.83	3747987.42	0.01548	(16061124)
391940.95	3748045.52	0.01285	(16061124)	391926.76	3748083.27	0.01156	(16061124)
391928.37	3748118.62	0.01062	(12041924)	391927.56	3748149.14	0.00994	(12041924)
391892.49	3747904.69	0.01924	(16061124)	391891.96	3747917.81	0.01849	(16061124)
391891.15	3747931.74	0.01773	(16061124)	391885.26	3747942.98	0.01698	(16061124)
391893.29	3747955.03	0.01663	(16061124)	391893.83	3747978.59	0.01556	(16061124)
391893.03	3747994.39	0.01486	(16061124)	391885.80	3748035.62	0.01319	(16061124)
391893.83	3748088.36	0.01148	(16061124)	391894.63	3748143.78	0.00991	(16061124)

391894.10 3748120.49 0.01054 (16061124) 391894.63
3748155.30 0.00961 (16061124)
391891.15 3748182.87 0.00897 (16061124) 391893.03
3748195.99 0.00870 (12041924)
391927.30 3748191.71 0.00910 (12041924) 391928.64
3748236.15 0.00833 (12041924)
391928.64 3748259.98 0.00795 (12041924) 391894.37
3748207.50 0.00853 (12041924)
391891.15 3748220.09 0.00831 (12041924) 391891.15
3748231.06 0.00814 (12041924)
391891.15 3748243.38 0.00797 (12041924) 391891.15
3748255.70 0.00780 (12041924)
391895.17 3748287.02 0.00741 (12041924) 391895.44
3748311.12 0.00710 (12041924)
391886.07 3748326.91 0.00687 (12041924) 391893.83
3748337.09 0.00679 (12041924)
391896.46 3748353.98 0.00661 (12041924) 391943.47
3748329.02 0.00699 (12041924)
391942.12 3748346.05 0.00678 (12041924) 391935.35
3748361.91 0.00659 (12041924)
391897.02 3748404.40 0.00608 (12041924) 391938.93
3748376.12 0.00642 (12041924)
391932.47 3748387.64 0.00629 (12041924) 391891.74
3748427.33 0.00585 (12041924)

*** 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 , 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_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391929.07	3748405.45	0.00610	(12041924)	391929.40	3748424.21	0.00591	(12041924)
391929.73	3748439.17	0.00576	(12041924)	391928.74	3748454.63	0.00561	(12041924)
391897.00	3748453.15	0.00562	(12041924)	391866.08	3747495.99	0.06585	(12121624)
391854.46	3747480.49	0.05640	(12121624)	391855.46	3747526.86	0.06165	(14121624)
391854.21	3747513.99	0.05998	(12121624)	391855.21	3747538.86	0.06249	(14121624)
391855.46	3747549.85	0.06296	(14121624)	392423.79	3747240.43	0.01995	(16122724)
391889.87	3747651.95	0.06095	(12112924)	391853.95	3747577.01	0.05970	(14121624)

391854.20 3747603.13 0.05394 (12112924) 391854.95
3747615.63 0.05263 (12112924)
391855.57 3747626.38 0.05096 (12112924) 391854.14
3747455.54 0.04855 (12121624)
391853.42 3747443.48 0.04423 (12121624) 391888.71
3747380.11 0.03540c (12122924)
391853.60 3747430.34 0.04005 (12121624) 391842.26
3747485.07 0.05181 (12121624)
391705.13 3747221.17 0.01065c (12122924) 391890.27
3747198.72 0.01369c (12122924)
391791.77 3747248.29 0.01412c
(12122924)

FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1 *** 09/06/23
*** AERMET - VERSION 16216 ***
*** *** 13:24:36

PAGE 11
*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	0.15825c ON 12122524:	AT (392217.30, 3747461.24, 29.00, 29.00, 2.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1 *** 09/06/23
*** AERMET - VERSION 16216 ***
*** *** 13:24:36

PAGE 12
*** 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 1017 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 747 Calm Hours Identified

A Total of 270 Missing Hours Identified (0.62 Percent)

******** FATAL ERROR MESSAGES ********

*** NONE ***

******** WARNING MESSAGES ********

ME W186 128 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used 0.50

ME W187 128 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

****

*** AERMOD Finishes Successfully ***

****

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/6/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt2 PM25\14715 Ops
Alt2 PM25.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID PM_2.5
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt2 PM25.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
```

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   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL2         0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL3         0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL4         0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL5         0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL6         0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL7         0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL8         0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL9         0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL10        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL11        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL12        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL13        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL14        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL15        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL16        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL17        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL18        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL19        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL20        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL21        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL22        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL23        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL24        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL25        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL26        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL27        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL28        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL29        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL30        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL31        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL32        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL33        0.0000176397     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Alt2 PM25.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
```

```
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "14715 OPS ALT2 PM25.AD\24H1GALL.PLT" 31
   SUMMFILE "14715 Ops Alt2 PM25.sum"
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/6/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt2 PM25\14715 Ops
Alt2 PM25.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID PM_2.5
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt2 PM25.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
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   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL2         0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL3         0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL4         0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL5         0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL6         0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL7         0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL8         0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL9         0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL10        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL11        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL12        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL13        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL14        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL15        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL16        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL17        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL18        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL19        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL20        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL21        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL22        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL23        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL24        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL25        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL26        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL27        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL28        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL29        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL30        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL31        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL32        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL33        0.0000176397     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Alt2 PM25.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
```

```
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "14715 OPS ALT2 PM25.AD\24H1GALL.PLT" 31
   SUMMFILE "14715 Ops Alt2 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     128       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     128       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 *********************************
 *** SETUP Finishes Successfully ***
 *********************************

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/06/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        13:36:03

                      PAGE   1
 *** 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    33 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   9818605.0 ;  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:     33 Source(s);       1 Source Group(s); and     105 Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:     33 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) =    10.00 ;  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:   14715 Ops Alt2
 PM25.err
 **File for Summary of Results:   14715 Ops Alt2
 PM25.sum
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/06/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       13:36:03

                      PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.
              URBAN  EMISSION RATE
  SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ
  SOURCE  SCALAR VARY
    ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

- - - - - - - - - - - - -

VOL1	0	0.17640E-04	391943.2	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL2	0	0.17640E-04	391988.3	3747611.1	29.0	5.00	10.44	1.40
YES								
VOL3	0	0.17640E-04	392033.2	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL4	0	0.17640E-04	392078.1	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL5	0	0.17640E-04	392122.7	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL6	0	0.17640E-04	392167.6	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL7	0	0.17640E-04	392175.8	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL8	0	0.17640E-04	392175.0	3747565.7	29.0	5.00	10.44	1.40
YES								
VOL9	0	0.17640E-04	392129.7	3747566.0	29.0	5.00	10.44	1.40
YES								
VOL10	0	0.17640E-04	392084.7	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL11	0	0.17640E-04	392040.2	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL12	0	0.17640E-04	391995.7	3747566.3	29.0	5.00	10.44	1.40
YES								
VOL13	0	0.17640E-04	391951.4	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL14	0	0.17640E-04	391942.7	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL15	0	0.17640E-04	391942.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL16	0	0.17640E-04	391987.4	3747522.1	29.0	5.00	10.44	1.40
YES								
VOL17	0	0.17640E-04	392031.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL18	0	0.17640E-04	392076.4	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL19	0	0.17640E-04	392121.3	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL20	0	0.17640E-04	392165.8	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL21	0	0.17640E-04	392210.9	3747521.2	29.0	5.00	10.44	1.40
YES								
VOL22	0	0.17640E-04	392219.6	3747557.0	29.0	5.00	10.44	1.40
YES								
VOL23	0	0.17640E-04	392237.2	3747556.6	29.0	5.00	10.44	1.40
YES								
VOL24	0	0.17640E-04	392256.9	3747546.6	29.0	5.00	10.44	1.40
YES								
VOL25	0	0.17640E-04	392256.5	3747502.1	29.0	5.00	10.44	1.40
YES								
VOL26	0	0.17640E-04	392256.3	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL27	0	0.17640E-04	392211.2	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL28	0	0.17640E-04	392167.1	3747484.7	29.0	5.00	10.44	1.40
YES								
VOL29	0	0.17640E-04	392122.1	3747484.9	29.0	5.00	10.44	1.40
YES								
VOL30	0	0.17640E-04	392076.7	3747485.0	29.0	5.00	10.44	1.40
YES								
VOL31	0	0.17640E-04	392032.1	3747485.2	29.0	5.00	10.44	1.40
YES								
VOL32	0	0.17640E-04	391987.1	3747485.9	29.0	5.00	10.44	1.40
YES								

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
9818605.	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 ,

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391891.2, 3747480.4, 29.0, 29.0, 2.0); (391892.0, 3747456.0, 29.0, 29.0, 2.0);
(391965.0, 3747447.6, 29.0, 29.0, 2.0); (391925.4, 3747447.6, 29.0, 29.0, 2.0);
(392089.4, 3747454.7, 29.0, 29.0, 2.0); (392112.8, 3747454.8, 29.0, 29.0, 2.0);
(392033.3, 3747443.0, 29.0, 29.0, 2.0); (392142.4, 3747442.5, 29.0, 29.0, 2.0);
(392336.7, 3747437.7, 29.0, 29.0, 2.0); (392430.0, 3747448.2, 29.0, 29.0, 2.0);
(392412.4, 3747555.7, 29.0, 29.0, 2.0); (392343.8, 3747480.0, 29.0, 29.0, 2.0);
(392217.3, 3747461.2, 29.0, 29.0, 2.0); (392161.5, 3747408.9, 29.0, 29.0, 2.0);
(391879.2, 3747513.2, 29.0, 29.0, 2.0); (391891.6, 3747547.0, 29.0, 29.0, 2.0);
(391891.8, 3747573.7, 29.0, 29.0, 2.0); (391884.4, 3747601.9, 29.0, 29.0, 2.0);
(391891.1, 3747641.8, 29.0, 29.0, 2.0); (391889.3, 3747663.5, 29.0, 29.0, 2.0);
(391883.5, 3747699.9, 29.0, 29.0, 2.0); (391881.9, 3747730.8, 29.0, 29.0, 2.0);
(391884.4, 3747754.5, 29.0, 29.0, 2.0); (391885.4, 3747780.4, 29.0, 29.0, 2.0);
(391883.8, 3747768.0, 29.0, 29.0, 2.0); (391493.6, 3748488.3, 29.0, 29.0, 2.0);
(391947.1, 3747875.7, 29.0, 29.0, 2.0); (391983.1, 3747875.9, 29.0, 29.0, 2.0);
(391885.5, 3747791.7, 29.0, 29.0, 2.0); (391889.3, 3747804.0, 29.0, 29.0, 2.0);
(391887.5, 3747815.9, 29.0, 29.0, 2.0); (391874.8, 3747826.1, 29.0, 29.0, 2.0);
(391892.7, 3747852.0, 29.0, 29.0, 2.0); (391892.5, 3747880.5, 29.0, 29.0, 2.0);
(392032.9, 3747873.7, 29.0, 29.0, 2.0); (392140.3, 3747873.4, 29.0, 29.0, 2.0);
(392233.5, 3747864.9, 29.0, 29.0, 2.0); (392523.2, 3747518.4, 28.3, 28.3, 2.0);
(392655.0, 3747574.8, 28.0, 28.0, 2.0); (392733.5, 3747870.8, 27.6, 27.6, 2.0);
(391927.6, 3747940.8, 29.0, 29.0, 2.0); (391927.8, 3747987.4, 29.0, 29.0, 2.0);
(391941.0, 3748045.5, 29.0, 29.0, 2.0); (391926.8, 3748083.3, 29.0, 29.0, 2.0);
(391928.4, 3748118.6, 29.0, 29.0, 2.0); (391927.6, 3748149.1, 29.0, 29.0, 2.0);
(391892.5, 3747904.7, 29.0, 29.0, 2.0); (391892.0, 3747917.8, 29.0, 29.0, 2.0);
(391891.1, 3747931.7, 29.0, 29.0, 2.0); (391885.3, 3747943.0, 29.0, 29.0, 2.0);
(391893.3, 3747955.0, 29.0, 29.0, 2.0); (391893.8, 3747978.6, 29.0, 29.0, 2.0);
(391893.0, 3747994.4, 29.0, 29.0, 2.0); (391885.8, 3748035.6, 29.0, 29.0, 2.0);
(391893.8, 3748088.4, 29.0, 29.0, 2.0); (391894.6, 3748143.8, 29.0, 29.0, 2.0);
(391894.1, 3748120.5, 29.0, 29.0, 2.0); (391894.6, 3748155.3, 29.0, 29.0, 2.0);
(391891.1, 3748182.9, 29.0, 29.0, 2.0); (391893.0, 3748196.0, 29.0, 29.0, 2.0);
(391927.3, 3748191.7, 29.0, 29.0, 2.0); (391928.6,

3748236.1, 29.0, 29.0, 2.0);
(391928.6, 3748260.0, 29.0, 29.0, 2.0); (391894.4,
3748207.5, 29.0, 29.0, 2.0);
(391891.1, 3748220.1, 29.0, 29.0, 2.0); (391891.1,
3748231.1, 29.0, 29.0, 2.0);
(391891.1, 3748243.4, 29.0, 29.0, 2.0); (391891.1,
3748255.7, 29.0, 29.0, 2.0);
(391895.2, 3748287.0, 29.0, 29.0, 2.0); (391895.4,
3748311.1, 29.0, 29.0, 2.0);
(391886.1, 3748326.9, 29.0, 29.0, 2.0); (391893.8,
3748337.1, 29.0, 29.0, 2.0);
(391896.5, 3748354.0, 29.0, 29.0, 2.0); (391943.5,
3748329.0, 29.0, 29.0, 2.0);
(391942.1, 3748346.0, 29.0, 29.0, 2.0); (391935.3,
3748361.9, 29.0, 29.0, 2.0);
(391897.0, 3748404.4, 29.0, 29.0, 2.0); (391938.9,
3748376.1, 29.0, 29.0, 2.0);
(391932.5, 3748387.6, 29.0, 29.0, 2.0); (391891.7,
3748427.3, 29.0, 29.0, 2.0);
(391929.1, 3748405.4, 29.0, 29.0, 2.0); (391929.4,
3748424.2, 29.0, 29.0, 2.0);
(391929.7, 3748439.2, 29.0, 29.0, 2.0); (391928.7,
3748454.6, 29.0, 29.0, 2.0);
(391897.0, 3748453.1, 29.0, 29.0, 2.0); (391866.1,
3747496.0, 29.0, 29.0, 2.0);
(391854.5, 3747480.5, 29.0, 29.0, 2.0); (391855.5,
3747526.9, 29.0, 29.0, 2.0);
(391854.2, 3747514.0, 29.0, 29.0, 2.0); (391855.2,
3747538.9, 29.0, 29.0, 2.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391855.5, 3747549.8, 29.0, 29.0, 2.0); (392423.8,
3747240.4, 29.0, 29.0, 2.0);
(391889.9, 3747651.9, 29.0, 29.0, 2.0); (391854.0,
3747577.0, 29.0, 29.0, 2.0);
(391854.2, 3747603.1, 29.0, 29.0, 2.0); (391855.0,
3747615.6, 29.0, 29.0, 2.0);
(391855.6, 3747626.4, 29.0, 29.0, 2.0); (391854.1,
3747455.5, 29.0, 29.0, 2.0);
(391853.4, 3747443.5, 29.0, 29.0, 2.0); (391888.7,
3747380.1, 29.0, 29.0, 2.0);
(391853.6, 3747430.3, 29.0, 29.0, 2.0); (391842.3,
3747485.1, 29.0, 29.0, 2.0);
(391705.1, 3747221.2, 29.0, 29.0, 2.0); (391890.3,
3747198.7, 29.0, 29.0, 2.0);
(391791.8, 3747248.3, 29.0, 29.0,
2.0);

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***

(1=YES; 0=NO)

```
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file:
KLGB_V9_ADJU\KLGB_v9.SFC Met
Version: 16216
Profile file:
KLGB_V9_ADJU\KLGB_v9.PFL
Surface format:
FREE

Profile format:
FREE

Surface station no.: 23129 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	-5.3	0.094	-9.000	-9.000	-999.	70.	14.3	0.10	2.68	1.00	1.13	322.	7.9	282.0	2.0
12	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	2.68	1.00	0.00	0.	7.9	281.4	2.0
12	01	01	1	03	-2.5	0.068	-9.000	-9.000	-999.	43.	11.4	0.10	2.68	1.00	0.74	79.	7.9	280.9	2.0
12	01	01	1	04	-3.2	0.075	-9.000	-9.000	-999.	49.	11.7	0.10	2.68	1.00	0.86				

```
137.    7.9  280.9    2.0
12 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.10   2.68   1.00    0.00
0.    7.9  280.4    2.0
12 01 01   1 06   -5.2  0.093 -9.000 -9.000 -999.   68.     14.0  0.10   2.68   1.00    1.11
92.    7.9  279.9    2.0
12 01 01   1 07   -2.3  0.066 -9.000 -9.000 -999.   41.     11.5  0.10   2.68   1.00    0.69
67.    7.9  278.8    2.0
12 01 01   1 08   -1.7  0.060 -9.000 -9.000 -999.   36.     11.4  0.10   2.68   0.54    0.65
91.    7.9  279.9    2.0
12 01 01   1 09   36.2 -9.000 -9.000 -9.000   37. -999. -99999.0  0.10   2.68   0.31    0.00
0.    7.9  283.8    2.0
12 01 01   1 10  108.4  0.139  0.707  0.009  119.  124.     -2.3  0.10   2.68   0.24    0.92
319.    7.9  287.5    2.0
12 01 01   1 11  160.5  0.114  1.137  0.005  334.   93.     -1.0  0.10   2.68   0.21    0.62
23.    7.9  292.5    2.0
12 01 01   1 12  186.7  0.125  1.473  0.005  623.  105.     -1.0  0.10   2.68   0.20    0.69
18.    7.9  295.4    2.0
12 01 01   1 13  186.8  0.130  1.761  0.005 1065.  112.     -1.1  0.10   2.68   0.20    0.74
250.    7.9  297.5    2.0
12 01 01   1 14  161.7  0.150  1.834  0.005 1387.  139.     -1.9  0.10   2.68   0.21    0.96
347.    7.9  300.4    2.0
12 01 01   1 15  105.5  0.243  1.633  0.005 1499.  288.    -12.4  0.10   2.68   0.24    2.11
194.    7.9  295.9    2.0
12 01 01   1 16   32.4  0.211  1.109  0.005 1530.  233.    -26.3  0.10   2.68   0.33    1.98
186.    7.9  295.4    2.0
12 01 01   1 17  -20.5  0.250 -9.000 -9.000 -999.  300.     69.2  0.10   2.68   0.60    2.81
293.    7.9  291.4    2.0
12 01 01   1 18  -25.4  0.257 -9.000 -9.000 -999.  313.     72.8  0.10   2.68   1.00    2.90
301.    7.9  288.1    2.0
12 01 01   1 19  -21.0  0.211 -9.000 -9.000 -999.  233.     49.0  0.10   2.68   1.00    2.40
313.    7.9  286.4    2.0
12 01 01   1 20  -25.7  0.258 -9.000 -9.000 -999.  315.     73.3  0.10   2.68   1.00    2.91
302.    7.9  286.4    2.0
12 01 01   1 21  -22.5  0.225 -9.000 -9.000 -999.  256.     55.7  0.10   2.68   1.00    2.55
306.    7.9  285.4    2.0
12 01 01   1 22   -9.3  0.126 -9.000 -9.000 -999.  111.     19.5  0.10   2.68   1.00    1.48
284.    7.9  285.9    2.0
12 01 01   1 23  -21.4  0.214 -9.000 -9.000 -999.  237.     50.3  0.10   2.68   1.00    2.43
282.    7.9  285.4    2.0
12 01 01   1 24  -30.1  0.300 -9.000 -9.000 -999.  394.     98.9  0.10   2.68   1.00    3.36
300.    7.9  284.2    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  322.    1.13   282.1   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/06/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       13:36:03

                      PAGE   9
 *** 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        , 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_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391891.24	3747480.41	0.03404	(12121624)	391892.01	3747456.00	0.02705	(12121624)
391965.04	3747447.61	0.04245c	(12122924)	391925.38	3747447.61	0.03467c	(12122924)
392089.38	3747454.66	0.05963c	(12122524)	392112.83	3747454.85	0.06050c	(12122524)
392033.31	3747443.03	0.04588c	(12122524)	392142.39	3747442.46	0.04900c	(12122524)
392336.71	3747437.69	0.02509	(13122724)	392429.96	3747448.18	0.01292	(13040124)
392412.42	3747555.73	0.01359	(15040624)	392343.77	3747480.03	0.02566	(16101624)
392217.30	3747461.24	0.06714c	(12122524)	392161.48	3747408.94	0.03104m	(15020724)
391879.25	3747513.22	0.03260	(12121624)	391891.65	3747546.98	0.03867	(14121624)
391891.84	3747573.68	0.03844	(14121624)	391884.40	3747601.90	0.03261	(12112924)
391891.08	3747641.76	0.02845	(12112924)	391889.35	3747663.46	0.02334	(12112924)
391883.45	3747699.92	0.01671	(12112924)	391881.92	3747730.82	0.01399	(13043024)
391884.40	3747754.47	0.01286	(13043024)	391885.36	3747780.40	0.01170	(16061124)
391883.83	3747768.01	0.01213	(13043024)	391493.56	3748488.26	0.00165	(14083124)
391947.12	3747875.71	0.00973	(16061124)	391983.08	3747875.94	0.00977	(16061124)
391885.46	3747791.74	0.01129	(16061124)	391889.32	3747804.03	0.01105	(16061124)
391887.50	3747815.86	0.01055	(16061124)	391874.76	3747826.10	0.00967	(16061124)
391892.74	3747852.04	0.00959	(16061124)	391892.51	3747880.49	0.00878	(16061124)
392032.89	3747873.67	0.00979	(12041924)	392140.29	3747873.36	0.00972	(16051624)
392233.52	3747864.86	0.00920	(14052424)	392523.19	3747518.42	0.00819	(16101624)
392655.00	3747574.84	0.00480	(15040624)	392733.47	3747870.77	0.00249	(12110824)
391927.56	3747940.84	0.00763	(16061124)	391927.83	3747987.42	0.00657	(16061124)
391940.95	3748045.52	0.00545	(16061124)	391926.76	3748083.27	0.00490	(16061124)
391928.37	3748118.62	0.00451	(12041924)	391927.56	3748149.14	0.00422	(12041924)
391892.49	3747904.69	0.00816	(16061124)	391891.96	3747917.81	0.00784	(16061124)
391891.15	3747931.74	0.00752	(16061124)	391885.26	3747942.98	0.00721	(16061124)
391893.29	3747955.03	0.00706	(16061124)	391893.83	3747978.59	0.00660	(16061124)
391893.03	3747994.39	0.00631	(16061124)	391885.80	3748035.62	0.00559	(16061124)
391893.83	3748088.36	0.00487	(16061124)	391894.63	3748143.78	0.00420	(16061124)

391894.10 3748120.49 0.00447 (16061124) 391894.63
3748155.30 0.00408 (16061124)
391891.15 3748182.87 0.00381 (16061124) 391893.03
3748195.99 0.00369 (12041924)
391927.30 3748191.71 0.00386 (12041924) 391928.64
3748236.15 0.00353 (12041924)
391928.64 3748259.98 0.00337 (12041924) 391894.37
3748207.50 0.00362 (12041924)
391891.15 3748220.09 0.00352 (12041924) 391891.15
3748231.06 0.00346 (12041924)
391891.15 3748243.38 0.00338 (12041924) 391891.15
3748255.70 0.00331 (12041924)
391895.17 3748287.02 0.00314 (12041924) 391895.44
3748311.12 0.00301 (12041924)
391886.07 3748326.91 0.00291 (12041924) 391893.83
3748337.09 0.00288 (12041924)
391896.46 3748353.98 0.00280 (12041924) 391943.47
3748329.02 0.00297 (12041924)
391942.12 3748346.05 0.00287 (12041924) 391935.35
3748361.91 0.00279 (12041924)
391897.02 3748404.40 0.00258 (12041924) 391938.93
3748376.12 0.00272 (12041924)
391932.47 3748387.64 0.00267 (12041924) 391891.74
3748427.33 0.00248 (12041924)

*** 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 , 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_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391929.07	3748405.45	0.00259	(12041924)	391929.40	3748424.21	0.00251	(12041924)
391929.73	3748439.17	0.00244	(12041924)	391928.74	3748454.63	0.00238	(12041924)
391897.00	3748453.15	0.00239	(12041924)	391866.08	3747495.99	0.02794	(12121624)
391854.46	3747480.49	0.02393	(12121624)	391855.46	3747526.86	0.02615	(14121624)
391854.21	3747513.99	0.02545	(12121624)	391855.21	3747538.86	0.02651	(14121624)
391855.46	3747549.85	0.02671	(14121624)	392423.79	3747240.43	0.00846	(16122724)
391889.87	3747651.95	0.02586	(12112924)	391853.95	3747577.01	0.02533	(14121624)

391854.20 3747603.13 0.02288 (12112924) 391854.95
3747615.63 0.02233 (12112924)
391855.57 3747626.38 0.02162 (12112924) 391854.14
3747455.54 0.02060 (12121624)
391853.42 3747443.48 0.01876 (12121624) 391888.71
3747380.11 0.01502c (12122924)
391853.60 3747430.34 0.01699 (12121624) 391842.26
3747485.07 0.02198 (12121624)
391705.13 3747221.17 0.00452c (12122924) 391890.27
3747198.72 0.00581c (12122924)
391791.77 3747248.29 0.00599c
(12122924)

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	0.06714c ON 12122524:	AT (392217.30, 3747461.24, 29.00, 29.00, 2.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** 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 1017 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 747 Calm Hours Identified

A Total of 270 Missing Hours Identified (0.62 Percent)

******** FATAL ERROR MESSAGES ********

*** NONE ***

******** WARNING MESSAGES ********

ME W186 128 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used 0.50

ME W187 128 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

****

*** AERMOD Finishes Successfully ***

****

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**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/6/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt3 CO\14715 Ops
Alt3 CO.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 1 8
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID CO
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt3 CO.err"
CO FINISHED
**
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** AERMOD Source Pathway
**************************************
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**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
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   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0053712896     5.000    10.435     1.400
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   SRCPARAM VOL3         0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL4         0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL5         0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL6         0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL7         0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL8         0.0053712896     5.000    10.435     1.400
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   SRCPARAM VOL10        0.0053712896     5.000    10.435     1.400
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   SRCPARAM VOL12        0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL13        0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL14        0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL15        0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL16        0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL17        0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL18        0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL19        0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL20        0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL21        0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL22        0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL23        0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL24        0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL25        0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL26        0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL27        0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL28        0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL29        0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL30        0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL31        0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL32        0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL33        0.0053712896     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Alt3 CO.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
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```
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 8 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14715 OPS ALT3 CO.AD\01H1GALL.PLT" 31
   PLOTFILE 8 ALL 1ST "14715 OPS ALT3 CO.AD\08H1GALL.PLT" 32
   SUMMFILE "14715 Ops Alt3 CO.sum"
OU FINISHED
**
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** Project Parameters
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** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
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** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/6/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt3 CO\14715 Ops
Alt3 CO.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 1 8
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID CO
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt3 CO.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
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   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL2         0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL3         0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL4         0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL5         0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL6         0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL7         0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL8         0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL9         0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL10        0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL11        0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL12        0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL13        0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL14        0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL15        0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL16        0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL17        0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL18        0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL19        0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL20        0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL21        0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL22        0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL23        0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL24        0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL25        0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL26        0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL27        0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL28        0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL29        0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL30        0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL31        0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL32        0.0053712896     5.000    10.435     1.400
   SRCPARAM VOL33        0.0053712896     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Alt3 CO.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
```

```
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 8 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14715 OPS ALT3 CO.AD\01H1GALL.PLT" 31
   PLOTFILE 8 ALL 1ST "14715 OPS ALT3 CO.AD\08H1GALL.PLT" 32
   SUMMFILE "14715 Ops Alt3 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     128       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     128       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 **********************************
 *** SETUP Finishes Successfully ***
 **********************************

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/06/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       13:49:54

                      PAGE   1
 *** 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    33 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   9818605.0 ;  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:     33 Source(s);       1 Source Group(s); and     105 Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:     33 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) =    10.00 ;  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:   14715 Ops Alt3
 CO.err
 **File for Summary of Results:   14715 Ops Alt3
 CO.sum
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/06/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       13:49:54

                      PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.
              URBAN  EMISSION RATE
  SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ
  SOURCE  SCALAR VARY
    ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
```

(METERS) BY

VOL1	0	0.53713E-02	391943.2	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL2	0	0.53713E-02	391988.3	3747611.1	29.0	5.00	10.44	1.40
YES								
VOL3	0	0.53713E-02	392033.2	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL4	0	0.53713E-02	392078.1	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL5	0	0.53713E-02	392122.7	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL6	0	0.53713E-02	392167.6	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL7	0	0.53713E-02	392175.8	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL8	0	0.53713E-02	392175.0	3747565.7	29.0	5.00	10.44	1.40
YES								
VOL9	0	0.53713E-02	392129.7	3747566.0	29.0	5.00	10.44	1.40
YES								
VOL10	0	0.53713E-02	392084.7	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL11	0	0.53713E-02	392040.2	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL12	0	0.53713E-02	391995.7	3747566.3	29.0	5.00	10.44	1.40
YES								
VOL13	0	0.53713E-02	391951.4	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL14	0	0.53713E-02	391942.7	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL15	0	0.53713E-02	391942.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL16	0	0.53713E-02	391987.4	3747522.1	29.0	5.00	10.44	1.40
YES								
VOL17	0	0.53713E-02	392031.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL18	0	0.53713E-02	392076.4	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL19	0	0.53713E-02	392121.3	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL20	0	0.53713E-02	392165.8	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL21	0	0.53713E-02	392210.9	3747521.2	29.0	5.00	10.44	1.40
YES								
VOL22	0	0.53713E-02	392219.6	3747557.0	29.0	5.00	10.44	1.40
YES								
VOL23	0	0.53713E-02	392237.2	3747556.6	29.0	5.00	10.44	1.40
YES								
VOL24	0	0.53713E-02	392256.9	3747546.6	29.0	5.00	10.44	1.40
YES								
VOL25	0	0.53713E-02	392256.5	3747502.1	29.0	5.00	10.44	1.40
YES								
VOL26	0	0.53713E-02	392256.3	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL27	0	0.53713E-02	392211.2	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL28	0	0.53713E-02	392167.1	3747484.7	29.0	5.00	10.44	1.40
YES								
VOL29	0	0.53713E-02	392122.1	3747484.9	29.0	5.00	10.44	1.40
YES								
VOL30	0	0.53713E-02	392076.7	3747485.0	29.0	5.00	10.44	1.40
YES								
VOL31	0	0.53713E-02	392032.1	3747485.2	29.0	5.00	10.44	1.40
YES								

VOL32 0 0.53713E-02 391987.1 3747485.9 29.0 5.00 10.44 1.40
YES
VOL33 0 0.53713E-02 391942.7 3747485.9 29.0 5.00 10.44 1.40
YES
FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1 *** 09/06/23
*** AERMET - VERSION 16216 ***
*** *** 13:49:54

PAGE 3
*** 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 ,

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 ,
FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1 *** 09/06/23
*** AERMET - VERSION 16216 ***
*** *** 13:49:54

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID URBAN POP SOURCE IDs

9818605. 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 ,
FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1 *** 09/06/23
*** AERMET - VERSION 16216 ***
*** *** 13:49:54

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391891.2, 3747480.4, 29.0, 29.0, 2.0); (391892.0, 3747456.0, 29.0, 29.0, 2.0);
(391965.0, 3747447.6, 29.0, 29.0, 2.0); (391925.4, 3747447.6, 29.0, 29.0, 2.0);
(392089.4, 3747454.7, 29.0, 29.0, 2.0); (392112.8, 3747454.8, 29.0, 29.0, 2.0);
(392033.3, 3747443.0, 29.0, 29.0, 2.0); (392142.4, 3747442.5, 29.0, 29.0, 2.0);
(392336.7, 3747437.7, 29.0, 29.0, 2.0); (392430.0, 3747448.2, 29.0, 29.0, 2.0);
(392412.4, 3747555.7, 29.0, 29.0, 2.0); (392343.8, 3747480.0, 29.0, 29.0, 2.0);
(392217.3, 3747461.2, 29.0, 29.0, 2.0); (392161.5, 3747408.9, 29.0, 29.0, 2.0);
(391879.2, 3747513.2, 29.0, 29.0, 2.0); (391891.6, 3747547.0, 29.0, 29.0, 2.0);
(391891.8, 3747573.7, 29.0, 29.0, 2.0); (391884.4, 3747601.9, 29.0, 29.0, 2.0);
(391891.1, 3747641.8, 29.0, 29.0, 2.0); (391889.3, 3747663.5, 29.0, 29.0, 2.0);
(391883.5, 3747699.9, 29.0, 29.0, 2.0); (391881.9, 3747730.8, 29.0, 29.0, 2.0);
(391884.4, 3747754.5, 29.0, 29.0, 2.0); (391885.4, 3747780.4, 29.0, 29.0, 2.0);
(391883.8, 3747768.0, 29.0, 29.0, 2.0); (391493.6, 3748488.3, 29.0, 29.0, 2.0);
(391947.1, 3747875.7, 29.0, 29.0, 2.0); (391983.1, 3747875.9, 29.0, 29.0, 2.0);
(391885.5, 3747791.7, 29.0, 29.0, 2.0); (391889.3, 3747804.0, 29.0, 29.0, 2.0);
(391887.5, 3747815.9, 29.0, 29.0, 2.0); (391874.8, 3747826.1, 29.0, 29.0, 2.0);
(391892.7, 3747852.0, 29.0, 29.0, 2.0); (391892.5, 3747880.5, 29.0, 29.0, 2.0);
(392032.9, 3747873.7, 29.0, 29.0, 2.0); (392140.3, 3747873.4, 29.0, 29.0, 2.0);
(392233.5, 3747864.9, 29.0, 29.0, 2.0); (392523.2, 3747518.4, 28.3, 28.3, 2.0);
(392655.0, 3747574.8, 28.0, 28.0, 2.0); (392733.5, 3747870.8, 27.6, 27.6, 2.0);
(391927.6, 3747940.8, 29.0, 29.0, 2.0); (391927.8, 3747987.4, 29.0, 29.0, 2.0);
(391941.0, 3748045.5, 29.0, 29.0, 2.0); (391926.8, 3748083.3, 29.0, 29.0, 2.0);
(391928.4, 3748118.6, 29.0, 29.0, 2.0); (391927.6, 3748149.1, 29.0, 29.0, 2.0);
(391892.5, 3747904.7, 29.0, 29.0, 2.0); (391892.0, 3747917.8, 29.0, 29.0, 2.0);
(391891.1, 3747931.7, 29.0, 29.0, 2.0); (391885.3, 3747943.0, 29.0, 29.0, 2.0);
(391893.3, 3747955.0, 29.0, 29.0, 2.0); (391893.8, 3747978.6, 29.0, 29.0, 2.0);
(391893.0, 3747994.4, 29.0, 29.0, 2.0); (391885.8, 3748035.6, 29.0, 29.0, 2.0);
(391893.8, 3748088.4, 29.0, 29.0, 2.0); (391894.6, 3748143.8, 29.0, 29.0, 2.0);
(391894.1, 3748120.5, 29.0, 29.0, 2.0); (391894.6, 3748155.3, 29.0, 29.0, 2.0);
(391891.1, 3748182.9, 29.0, 29.0, 2.0); (391893.0,

3748196.0, 29.0, 29.0, 2.0);
(391927.3, 3748191.7, 29.0, 29.0, 2.0); (391928.6, 3748236.1, 29.0, 29.0, 2.0);
(391928.6, 3748260.0, 29.0, 29.0, 2.0); (391894.4, 3748207.5, 29.0, 29.0, 2.0);
(391891.1, 3748220.1, 29.0, 29.0, 2.0); (391891.1, 3748231.1, 29.0, 29.0, 2.0);
(391891.1, 3748243.4, 29.0, 29.0, 2.0); (391891.1, 3748255.7, 29.0, 29.0, 2.0);
(391895.2, 3748287.0, 29.0, 29.0, 2.0); (391895.4, 3748311.1, 29.0, 29.0, 2.0);
(391886.1, 3748326.9, 29.0, 29.0, 2.0); (391893.8, 3748337.1, 29.0, 29.0, 2.0);
(391896.5, 3748354.0, 29.0, 29.0, 2.0); (391943.5, 3748329.0, 29.0, 29.0, 2.0);
(391942.1, 3748346.0, 29.0, 29.0, 2.0); (391935.3, 3748361.9, 29.0, 29.0, 2.0);
(391897.0, 3748404.4, 29.0, 29.0, 2.0); (391938.9, 3748376.1, 29.0, 29.0, 2.0);
(391932.5, 3748387.6, 29.0, 29.0, 2.0); (391891.7, 3748427.3, 29.0, 29.0, 2.0);
(391929.1, 3748405.4, 29.0, 29.0, 2.0); (391929.4, 3748424.2, 29.0, 29.0, 2.0);
(391929.7, 3748439.2, 29.0, 29.0, 2.0); (391928.7, 3748454.6, 29.0, 29.0, 2.0);
(391897.0, 3748453.1, 29.0, 29.0, 2.0); (391866.1, 3747496.0, 29.0, 29.0, 2.0);
(391854.5, 3747480.5, 29.0, 29.0, 2.0); (391855.5, 3747526.9, 29.0, 29.0, 2.0);
(391854.2, 3747514.0, 29.0, 29.0, 2.0); (391855.2, 3747538.9, 29.0, 29.0, 2.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391855.5, 3747549.8, 29.0, 29.0, 2.0); (392423.8, 3747240.4, 29.0, 29.0, 2.0);
(391889.9, 3747651.9, 29.0, 29.0, 2.0); (391854.0, 3747577.0, 29.0, 29.0, 2.0);
(391854.2, 3747603.1, 29.0, 29.0, 2.0); (391855.0, 3747615.6, 29.0, 29.0, 2.0);
(391855.6, 3747626.4, 29.0, 29.0, 2.0); (391854.1, 3747455.5, 29.0, 29.0, 2.0);
(391853.4, 3747443.5, 29.0, 29.0, 2.0); (391888.7, 3747380.1, 29.0, 29.0, 2.0);
(391853.6, 3747430.3, 29.0, 29.0, 2.0); (391842.3, 3747485.1, 29.0, 29.0, 2.0);
(391705.1, 3747221.2, 29.0, 29.0, 2.0); (391890.3, 3747198.7, 29.0, 29.0, 2.0);
(391791.8, 3747248.3, 29.0, 29.0,
2.0);

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

```
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file:
KLGB_V9_ADJU\KLGB_v9.SFC Met
Version: 16216
Profile file:
KLGB_V9_ADJU\KLGB_v9.PFL
Surface format:
FREE

Profile format:
FREE

Surface station no.: 23129 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   -5.3  0.094 -9.000 -9.000 -999.   70.     14.3  0.10   2.68   1.00    1.13
 322.    7.9  282.0    2.0
 12 01 01   1 02 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.10   2.68   1.00    0.00
 0.    7.9  281.4    2.0
 12 01 01   1 03   -2.5  0.068 -9.000 -9.000 -999.   43.     11.4  0.10   2.68   1.00    0.74
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 79.    7.9  280.9    2.0
 12 01 01   1 04   -3.2  0.075 -9.000 -9.000 -999.   49.     11.7  0.10   2.68   1.00    0.86
 137.    7.9  280.9    2.0
 12 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.10   2.68   1.00    0.00
 0.    7.9  280.4    2.0
 12 01 01   1 06   -5.2  0.093 -9.000 -9.000 -999.   68.     14.0  0.10   2.68   1.00    1.11
 92.    7.9  279.9    2.0
 12 01 01   1 07   -2.3  0.066 -9.000 -9.000 -999.   41.     11.5  0.10   2.68   1.00    0.69
 67.    7.9  278.8    2.0
 12 01 01   1 08   -1.7  0.060 -9.000 -9.000 -999.   36.     11.4  0.10   2.68   0.54    0.65
 91.    7.9  279.9    2.0
 12 01 01   1 09   36.2 -9.000 -9.000 -9.000   37. -999. -99999.0  0.10   2.68   0.31    0.00
 0.    7.9  283.8    2.0
 12 01 01   1 10  108.4  0.139  0.707  0.009  119.  124.     -2.3  0.10   2.68   0.24    0.92
 319.    7.9  287.5    2.0
 12 01 01   1 11  160.5  0.114  1.137  0.005  334.   93.     -1.0  0.10   2.68   0.21    0.62
 23.    7.9  292.5    2.0
 12 01 01   1 12  186.7  0.125  1.473  0.005  623.  105.     -1.0  0.10   2.68   0.20    0.69
 18.    7.9  295.4    2.0
 12 01 01   1 13  186.8  0.130  1.761  0.005 1065.  112.     -1.1  0.10   2.68   0.20    0.74
 250.    7.9  297.5    2.0
 12 01 01   1 14  161.7  0.150  1.834  0.005 1387.  139.     -1.9  0.10   2.68   0.21    0.96
 347.    7.9  300.4    2.0
 12 01 01   1 15  105.5  0.243  1.633  0.005 1499.  288.    -12.4  0.10   2.68   0.24    2.11
 194.    7.9  295.9    2.0
 12 01 01   1 16   32.4  0.211  1.109  0.005 1530.  233.    -26.3  0.10   2.68   0.33    1.98
 186.    7.9  295.4    2.0
 12 01 01   1 17  -20.5  0.250 -9.000 -9.000 -999.  300.     69.2  0.10   2.68   0.60    2.81
 293.    7.9  291.4    2.0
 12 01 01   1 18  -25.4  0.257 -9.000 -9.000 -999.  313.     72.8  0.10   2.68   1.00    2.90
 301.    7.9  288.1    2.0
 12 01 01   1 19  -21.0  0.211 -9.000 -9.000 -999.  233.     49.0  0.10   2.68   1.00    2.40
 313.    7.9  286.4    2.0
 12 01 01   1 20  -25.7  0.258 -9.000 -9.000 -999.  315.     73.3  0.10   2.68   1.00    2.91
 302.    7.9  286.4    2.0
 12 01 01   1 21  -22.5  0.225 -9.000 -9.000 -999.  256.     55.7  0.10   2.68   1.00    2.55
 306.    7.9  285.4    2.0
 12 01 01   1 22   -9.3  0.126 -9.000 -9.000 -999.  111.     19.5  0.10   2.68   1.00    1.48
 284.    7.9  285.9    2.0
 12 01 01   1 23  -21.4  0.214 -9.000 -9.000 -999.  237.     50.3  0.10   2.68   1.00    2.43
 282.    7.9  285.4    2.0
 12 01 01   1 24  -30.1  0.300 -9.000 -9.000 -999.  394.     98.9  0.10   2.68   1.00    3.36
 300.    7.9  284.2    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  322.    1.13   282.1   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/06/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       13:49:54

                      PAGE   9
 *** 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       ,
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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)
391891.24	3747480.41	29.69521	(13041207)	391892.01	3747456.00	31.62979	(13041207)
391965.04	3747447.61	35.22980	(13041207)	391925.38	3747447.61	34.70918	(13041207)
392089.38	3747454.66	35.83958	(13041207)	392112.83	3747454.85	34.58625	(13041207)
392033.31	3747443.03	31.41379	(13041207)	392142.39	3747442.46	28.49935	(13041207)
392336.71	3747437.69	20.01074	(12122516)	392429.96	3747448.18	11.55622	(12122516)
392412.42	3747555.73	9.31531	(15011116)	392343.77	3747480.03	22.75784	(12122516)
392217.30	3747461.24	32.61955	(12071106)	392161.48	3747408.94	14.91011	(12071106)
391879.25	3747513.22	22.76611	(13041207)	391891.65	3747546.98	24.46202	(13110408)
391891.84	3747573.68	25.82206	(13110408)	391884.40	3747601.90	18.36679	(13110408)
391891.08	3747641.76	17.48761	(16021717)	391889.35	3747663.46	14.88885	(12112916)
391883.45	3747699.92	11.14459	(12112916)	391881.92	3747730.82	8.93223	(12112916)
391884.40	3747754.47	7.70851	(12112916)	391885.36	3747780.40	6.66086	(12112916)
391883.83	3747768.01	7.13546	(12112916)	391493.56	3748488.26	1.20442	(14091424)
391947.12	3747875.71	5.88695	(12020617)	391983.08	3747875.94	6.63176	(12020617)
391885.46	3747791.74	6.30937	(15091424)	391889.32	3747804.03	6.03414	(14091424)
391887.50	3747815.86	5.77336	(14091424)	391874.76	3747826.10	5.47844	(12082022)
391892.74	3747852.04	5.14801	(15072023)	391892.51	3747880.49	4.73081	(15091120)
392032.89	3747873.67	7.08478	(12020617)	392140.29	3747873.36	6.88627	(12020617)
392233.52	3747864.86	6.69062	(14041207)	392523.19	3747518.42	5.32137	(14091722)
392655.00	3747574.84	3.44741	(13092022)	392733.47	3747870.77	2.31119	(16092618)
391927.56	3747940.84	4.26017	(12020617)	391927.83	3747987.42	3.75082	(12020617)
391940.95	3748045.52	3.44975	(12020617)	391926.76	3748083.27	2.97453	(12020617)
391928.37	3748118.62	2.78074	(12020617)	391927.56	3748149.14	2.60614	(12020617)
391892.49	3747904.69	4.42540	(15091120)	391891.96	3747917.81	4.26695	(15091120)
391891.15	3747931.74	4.10534	(15091120)	391885.26	3747942.98	3.96582	(15091120)
391893.29	3747955.03	3.85730	(15091120)	391893.83	3747978.59	3.62680	(15091003)
391893.03	3747994.39	3.48748	(15091003)	391885.80	3748035.62	3.14865	(15091003)

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      391893.83   3748088.36        2.80212  (14080322)                391894.63
      3748143.78        2.51258  (14080322)
      391894.10   3748120.49        2.62979  (14080322)                391894.63
      3748155.30        2.45646  (14080322)
      391891.15   3748182.87        2.32658  (15081805)                391893.03
      3748195.99        2.27256  (15081805)
      391927.30   3748191.71        2.39883  (12020617)                391928.64
      3748236.15        2.22120  (12020617)
      391928.64   3748259.98        2.12859  (12020617)                391894.37
      3748207.50        2.22552  (15081805)
      391891.15   3748220.09        2.17318  (15081805)                391891.15
      3748231.06        2.13025  (15081805)
      391891.15   3748243.38        2.08323  (15081805)                391891.15
      3748255.70        2.03876  (15081802)
      391895.17   3748287.02        1.93802  (15081802)                391895.44
      3748311.12        1.86220  (15081802)
      391886.07   3748326.91        1.81221  (15081802)                391893.83
      3748337.09        1.78443  (15081802)
      391896.46   3748353.98        1.73880  (13052920)                391943.47
      3748329.02        1.96718  (12020617)
      391942.12   3748346.05        1.90349  (12020617)                391935.35
      3748361.91        1.82192  (12020617)
      391897.02   3748404.40        1.61322  (13052920)                391938.93
      3748376.12        1.79486  (12020617)
      391932.47   3748387.64        1.73340  (12020617)                391891.74
      3748427.33        1.55873  (13052920)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/06/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        13:49:54

                    PAGE  10
 *** 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)
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 - - - - - - - - - - - - - - - - - -
      391929.07   3748405.45        1.66992  (12020617)                391929.40
      3748424.21        1.62220  (12020617)
      391929.73   3748439.17        1.58568  (12020617)                391928.74
      3748454.63        1.54436  (12020617)
      391897.00   3748453.15        1.50524  (15073104)                391866.08
      3747495.99       19.84642  (13041207)
      391854.46   3747480.49       17.90786  (13041207)                391855.46
      3747526.86       18.13298  (13110408)
      391854.21   3747513.99       17.51912  (13110408)                391855.21
      3747538.86       18.48903  (13110408)
      391855.46   3747549.85       18.86612  (13110408)                392423.79
      3747240.43        4.43005  (15090824)
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391889.87 3747651.95 16.03973 (16021717) 391853.95
3747577.01 17.66374 (13110408)
391854.20 3747603.13 14.03234 (13110408) 391854.95
3747615.63 13.88010 (16112016)
391855.57 3747626.38 13.77814 (16112016) 391854.14
3747455.54 19.70877 (13041207)
391853.42 3747443.48 20.07168 (13041207) 391888.71
3747380.11 16.72642 (13041207)
391853.60 3747430.34 20.13198 (13041207) 391842.26
3747485.07 14.57156 (13041207)
391705.13 3747221.17 5.89816 (13041207) 391890.27
3747198.72 4.46605 (15071920)
391791.77 3747248.29 6.99695
(13041207)

*** 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 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391891.24	3747480.41	13.57336	(13012408)	391892.01	3747456.00	11.63582	(12121624)
391965.04	3747447.61	18.87759	(14021308)	391925.38	3747447.61	14.62471	(14021308)
392089.38	3747454.66	25.85417	(14021308)	392112.83	3747454.85	26.12320	(14021308)
392033.31	3747443.03	20.43380	(14021308)	392142.39	3747442.46	20.80320	(14021308)
392336.71	3747437.69	11.12401m	(12050224)	392429.96	3747448.18	6.02658	(16101608)
392412.42	3747555.73	7.29759	(12110824)	392343.77	3747480.03	10.89581	(16101608)
392217.30	3747461.24	28.68452	(14021308)	392161.48	3747408.94	13.20966	(14021308)
391879.25	3747513.22	13.51980	(14120308)	391891.65	3747546.98	16.08787	(14021308)
391891.84	3747573.68	15.81070	(14021308)	391884.40	3747601.90	13.58160	(13021808)
391891.08	3747641.76	12.45649	(13052508)	391889.35	3747663.46	10.48368	(13021908)
391883.45	3747699.92	7.89001	(13021908)	391881.92	3747730.82	6.58703	(15090108)
391884.40	3747754.47	6.04029	(13091724)	391885.36	3747780.40	5.52594	(13091724)

391883.83	3747768.01	5.74444	(13091724)	391493.56
3748488.26	0.93953	(13091724)		
391947.12	3747875.71	4.19047	(15082008)	391983.08
3747875.94	4.29745	(13041424)		
391885.46	3747791.74	5.31192	(13091724)	391889.32
3747804.03	5.13471	(13091724)		
391887.50	3747815.86	4.90719	(13091724)	391874.76
3747826.10	4.61766	(13091724)		
391892.74	3747852.04	4.36064	(13091724)	391892.51
3747880.49	3.94822	(13091724)		
392032.89	3747873.67	4.45127	(13041424)	392140.29
3747873.36	4.16368	(12042924)		
392233.52	3747864.86	4.31645	(12042924)	392523.19
3747518.42	3.90779	(15091524)		
392655.00	3747574.84	2.71737	(12110824)	392733.47
3747870.77	1.50525	(12041224)		
391927.56	3747940.84	3.31918	(15082008)	391927.83
3747987.42	2.85286	(15082008)		
391940.95	3748045.52	2.53832	(13041424)	391926.76
3748083.27	2.29001	(13041424)		
391928.37	3748118.62	2.13089	(13041424)	391927.56
3748149.14	2.00043	(13041424)		
391892.49	3747904.69	3.63100	(13091724)	391891.96
3747917.81	3.47003	(13091724)		
391891.15	3747931.74	3.32463	(15082008)	391885.26
3747942.98	3.19268	(15082008)		
391893.29	3747955.03	3.11379	(15082008)	391893.83
3747978.59	2.90954	(15082008)		
391893.03	3747994.39	2.77918	(15082008)	391885.80
3748035.62	2.46879	(15082008)		
391893.83	3748088.36	2.14101	(13041424)	391894.63
3748143.78	1.93748	(13041424)		
391894.10	3748120.49	2.01927	(13041424)	391894.63
3748155.30	1.89772	(13041424)		
391891.15	3748182.87	1.79809	(13041424)	391893.03
3748195.99	1.76183	(13041424)		
391927.30	3748191.71	1.83808	(13041424)	391928.64
3748236.15	1.68879	(13041424)		
391928.64	3748259.98	1.61478	(13041424)	391894.37
3748207.50	1.72966	(13041424)		
391891.15	3748220.09	1.68591	(13041424)	391891.15
3748231.06	1.65456	(13041424)		
391891.15	3748243.38	1.62024	(13041424)	391891.15
3748255.70	1.58683	(13041424)		
391895.17	3748287.02	1.51060	(13041424)	391895.44
3748311.12	1.45126	(13041424)		
391886.07	3748326.91	1.40542	(13041424)	391893.83
3748337.09	1.38920	(13041424)		
391896.46	3748353.98	1.35325	(13041424)	391943.47
3748329.02	1.42345	(13041424)		
391942.12	3748346.05	1.38042	(13041424)	391935.35
3748361.91	1.34335	(13041424)		
391897.02	3748404.40	1.24813	(13041424)	391938.93
3748376.12	1.30941	(13041424)		
391932.47	3748387.64	1.28509	(13041424)	391891.74
3748427.33	1.20252	(13041424)		

*** 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 (M)	CONC	(YYMMDDHH)
391929.07	3748405.45	1.24739	(13041424)	391929.40	3748424.21	1.20861	(13041424)
391929.73	3748439.17	1.17883	(13041424)	391928.74	3748454.63	1.14957	(13041424)
391897.00	3748453.15	1.15636	(13041424)	391866.08	3747495.99	11.59355	(13012408)
391854.46	3747480.49	10.37499	(13012408)	391855.46	3747526.86	11.39465	(14120308)
391854.21	3747513.99	11.11091	(14120308)	391855.21	3747538.86	11.42549	(14113008)
391855.46	3747549.85	11.66654	(14113008)	392423.79	3747240.43	4.07139c	(12120424)
391889.87	3747651.95	11.48704	(13052508)	391853.95	3747577.01	11.33730	(14113008)
391854.20	3747603.13	10.52015	(13021808)	391854.95	3747615.63	10.29456	(13021808)
391855.57	3747626.38	9.94731	(13021808)	391854.14	3747455.54	9.24049	(13012408)
391853.42	3747443.48	8.47152	(12121624)	391888.71	3747380.11	6.42937	(12120908)
391853.60	3747430.34	7.92593	(12121624)	391842.26	3747485.07	9.65015	(13012408)
391705.13	3747221.17	2.33301	(12120908)	391890.27	3747198.72	2.63502	(16121008)
391791.77	3747248.29	2.86955	(12120908)				

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF CO IN
MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID

ALL HIGH 1ST HIGH VALUE IS 35.83958 ON 13041207: AT (392089.38, 3747454.66, 29.00, 29.00, 2.00) DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** THE SUMMARY OF HIGHEST 8-HR RESULTS ***

** CONC OF CO IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	28.68452	ON 14021308: AT (392217.30, 3747461.24, 29.00, 29.00, 2.00)	DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** 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 1017 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 747 Calm Hours Identified

A Total of 270 Missing Hours Identified (0.62 Percent)

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********

```
ME W186     128       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187     128       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

   ************************************
   *** AERMOD Finishes Successfully ***
   ************************************
```

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/6/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt3 NOX\14715 Ops
Alt3 NOX.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 1
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID NOX
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt3 NOX.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
```

```
   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL2         0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL3         0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL4         0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL5         0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL6         0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL7         0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL8         0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL9         0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL10        0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL11        0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL12        0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL13        0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL14        0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL15        0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL16        0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL17        0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL18        0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL19        0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL20        0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL21        0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL22        0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL23        0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL24        0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL25        0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL26        0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL27        0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL28        0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL29        0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL30        0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL31        0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL32        0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL33        0.0002532557     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Alt3 NOX.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
```

```
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14715 OPS ALT3 NOX.AD\01H1GALL.PLT" 31
   SUMMFILE "14715 Ops Alt3 NOX.sum"
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/6/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt3 NOX\14715 Ops
Alt3 NOX.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 1
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID NOX
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt3 NOX.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
```

```
   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL2         0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL3         0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL4         0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL5         0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL6         0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL7         0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL8         0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL9         0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL10        0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL11        0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL12        0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL13        0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL14        0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL15        0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL16        0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL17        0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL18        0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL19        0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL20        0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL21        0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL22        0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL23        0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL24        0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL25        0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL26        0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL27        0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL28        0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL29        0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL30        0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL31        0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL32        0.0002532557     5.000    10.435     1.400
   SRCPARAM VOL33        0.0002532557     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Alt3 NOX.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
```

```
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14715 OPS ALT3 NOX.AD\01H1GALL.PLT" 31
   SUMMFILE "14715 Ops Alt3 NOX.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     128       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     128       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 **********************************
 *** SETUP Finishes Successfully ***
 **********************************

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/06/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        13:54:20

                      PAGE   1
 *** 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    33 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   9818605.0 ;  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:     33 Source(s);       1 Source Group(s); and     105 Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:     33 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) =    10.00 ;  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:   14715 Ops Alt3
 NOX.err
 **File for Summary of Results:   14715 Ops Alt3
 NOX.sum
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/06/23
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***        13:54:20

                     PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.
              URBAN  EMISSION RATE
  SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ
  SOURCE  SCALAR VARY
    ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

- - - - - - - - - - - - -

VOL1	0	0.25326E-03	391943.2	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL2	0	0.25326E-03	391988.3	3747611.1	29.0	5.00	10.44	1.40
YES								
VOL3	0	0.25326E-03	392033.2	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL4	0	0.25326E-03	392078.1	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL5	0	0.25326E-03	392122.7	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL6	0	0.25326E-03	392167.6	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL7	0	0.25326E-03	392175.8	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL8	0	0.25326E-03	392175.0	3747565.7	29.0	5.00	10.44	1.40
YES								
VOL9	0	0.25326E-03	392129.7	3747566.0	29.0	5.00	10.44	1.40
YES								
VOL10	0	0.25326E-03	392084.7	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL11	0	0.25326E-03	392040.2	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL12	0	0.25326E-03	391995.7	3747566.3	29.0	5.00	10.44	1.40
YES								
VOL13	0	0.25326E-03	391951.4	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL14	0	0.25326E-03	391942.7	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL15	0	0.25326E-03	391942.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL16	0	0.25326E-03	391987.4	3747522.1	29.0	5.00	10.44	1.40
YES								
VOL17	0	0.25326E-03	392031.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL18	0	0.25326E-03	392076.4	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL19	0	0.25326E-03	392121.3	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL20	0	0.25326E-03	392165.8	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL21	0	0.25326E-03	392210.9	3747521.2	29.0	5.00	10.44	1.40
YES								
VOL22	0	0.25326E-03	392219.6	3747557.0	29.0	5.00	10.44	1.40
YES								
VOL23	0	0.25326E-03	392237.2	3747556.6	29.0	5.00	10.44	1.40
YES								
VOL24	0	0.25326E-03	392256.9	3747546.6	29.0	5.00	10.44	1.40
YES								
VOL25	0	0.25326E-03	392256.5	3747502.1	29.0	5.00	10.44	1.40
YES								
VOL26	0	0.25326E-03	392256.3	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL27	0	0.25326E-03	392211.2	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL28	0	0.25326E-03	392167.1	3747484.7	29.0	5.00	10.44	1.40
YES								
VOL29	0	0.25326E-03	392122.1	3747484.9	29.0	5.00	10.44	1.40
YES								
VOL30	0	0.25326E-03	392076.7	3747485.0	29.0	5.00	10.44	1.40
YES								
VOL31	0	0.25326E-03	392032.1	3747485.2	29.0	5.00	10.44	1.40
YES								
VOL32	0	0.25326E-03	391987.1	3747485.9	29.0	5.00	10.44	1.40
YES								

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
	9818605.	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 ,

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391891.2, 3747480.4, 29.0, 29.0, 2.0); (391892.0, 3747456.0, 29.0, 29.0, 2.0);
(391965.0, 3747447.6, 29.0, 29.0, 2.0); (391925.4, 3747447.6, 29.0, 29.0, 2.0);
(392089.4, 3747454.7, 29.0, 29.0, 2.0); (392112.8, 3747454.8, 29.0, 29.0, 2.0);
(392033.3, 3747443.0, 29.0, 29.0, 2.0); (392142.4, 3747442.5, 29.0, 29.0, 2.0);
(392336.7, 3747437.7, 29.0, 29.0, 2.0); (392430.0, 3747448.2, 29.0, 29.0, 2.0);
(392412.4, 3747555.7, 29.0, 29.0, 2.0); (392343.8, 3747480.0, 29.0, 29.0, 2.0);
(392217.3, 3747461.2, 29.0, 29.0, 2.0); (392161.5, 3747408.9, 29.0, 29.0, 2.0);
(391879.2, 3747513.2, 29.0, 29.0, 2.0); (391891.6, 3747547.0, 29.0, 29.0, 2.0);
(391891.8, 3747573.7, 29.0, 29.0, 2.0); (391884.4, 3747601.9, 29.0, 29.0, 2.0);
(391891.1, 3747641.8, 29.0, 29.0, 2.0); (391889.3, 3747663.5, 29.0, 29.0, 2.0);
(391883.5, 3747699.9, 29.0, 29.0, 2.0); (391881.9, 3747730.8, 29.0, 29.0, 2.0);
(391884.4, 3747754.5, 29.0, 29.0, 2.0); (391885.4, 3747780.4, 29.0, 29.0, 2.0);
(391883.8, 3747768.0, 29.0, 29.0, 2.0); (391493.6, 3748488.3, 29.0, 29.0, 2.0);
(391947.1, 3747875.7, 29.0, 29.0, 2.0); (391983.1, 3747875.9, 29.0, 29.0, 2.0);
(391885.5, 3747791.7, 29.0, 29.0, 2.0); (391889.3, 3747804.0, 29.0, 29.0, 2.0);
(391887.5, 3747815.9, 29.0, 29.0, 2.0); (391874.8, 3747826.1, 29.0, 29.0, 2.0);
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(392032.9, 3747873.7, 29.0, 29.0, 2.0); (392140.3, 3747873.4, 29.0, 29.0, 2.0);
(392233.5, 3747864.9, 29.0, 29.0, 2.0); (392523.2, 3747518.4, 28.3, 28.3, 2.0);
(392655.0, 3747574.8, 28.0, 28.0, 2.0); (392733.5, 3747870.8, 27.6, 27.6, 2.0);
(391927.6, 3747940.8, 29.0, 29.0, 2.0); (391927.8, 3747987.4, 29.0, 29.0, 2.0);
(391941.0, 3748045.5, 29.0, 29.0, 2.0); (391926.8, 3748083.3, 29.0, 29.0, 2.0);
(391928.4, 3748118.6, 29.0, 29.0, 2.0); (391927.6, 3748149.1, 29.0, 29.0, 2.0);
(391892.5, 3747904.7, 29.0, 29.0, 2.0); (391892.0, 3747917.8, 29.0, 29.0, 2.0);
(391891.1, 3747931.7, 29.0, 29.0, 2.0); (391885.3, 3747943.0, 29.0, 29.0, 2.0);
(391893.3, 3747955.0, 29.0, 29.0, 2.0); (391893.8, 3747978.6, 29.0, 29.0, 2.0);
(391893.0, 3747994.4, 29.0, 29.0, 2.0); (391885.8, 3748035.6, 29.0, 29.0, 2.0);
(391893.8, 3748088.4, 29.0, 29.0, 2.0); (391894.6, 3748143.8, 29.0, 29.0, 2.0);
(391894.1, 3748120.5, 29.0, 29.0, 2.0); (391894.6, 3748155.3, 29.0, 29.0, 2.0);
(391891.1, 3748182.9, 29.0, 29.0, 2.0); (391893.0, 3748196.0, 29.0, 29.0, 2.0);
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3748236.1, 29.0, 29.0, 2.0);
(391928.6, 3748260.0, 29.0, 29.0, 2.0); (391894.4,
3748207.5, 29.0, 29.0, 2.0);
(391891.1, 3748220.1, 29.0, 29.0, 2.0); (391891.1,
3748231.1, 29.0, 29.0, 2.0);
(391891.1, 3748243.4, 29.0, 29.0, 2.0); (391891.1,
3748255.7, 29.0, 29.0, 2.0);
(391895.2, 3748287.0, 29.0, 29.0, 2.0); (391895.4,
3748311.1, 29.0, 29.0, 2.0);
(391886.1, 3748326.9, 29.0, 29.0, 2.0); (391893.8,
3748337.1, 29.0, 29.0, 2.0);
(391896.5, 3748354.0, 29.0, 29.0, 2.0); (391943.5,
3748329.0, 29.0, 29.0, 2.0);
(391942.1, 3748346.0, 29.0, 29.0, 2.0); (391935.3,
3748361.9, 29.0, 29.0, 2.0);
(391897.0, 3748404.4, 29.0, 29.0, 2.0); (391938.9,
3748376.1, 29.0, 29.0, 2.0);
(391932.5, 3748387.6, 29.0, 29.0, 2.0); (391891.7,
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(391929.1, 3748405.4, 29.0, 29.0, 2.0); (391929.4,
3748424.2, 29.0, 29.0, 2.0);
(391929.7, 3748439.2, 29.0, 29.0, 2.0); (391928.7,
3748454.6, 29.0, 29.0, 2.0);
(391897.0, 3748453.1, 29.0, 29.0, 2.0); (391866.1,
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(391854.5, 3747480.5, 29.0, 29.0, 2.0); (391855.5,
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(391854.2, 3747514.0, 29.0, 29.0, 2.0); (391855.2,
3747538.9, 29.0, 29.0, 2.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391855.5, 3747549.8, 29.0, 29.0, 2.0); (392423.8,
3747240.4, 29.0, 29.0, 2.0);
(391889.9, 3747651.9, 29.0, 29.0, 2.0); (391854.0,
3747577.0, 29.0, 29.0, 2.0);
(391854.2, 3747603.1, 29.0, 29.0, 2.0); (391855.0,
3747615.6, 29.0, 29.0, 2.0);
(391855.6, 3747626.4, 29.0, 29.0, 2.0); (391854.1,
3747455.5, 29.0, 29.0, 2.0);
(391853.4, 3747443.5, 29.0, 29.0, 2.0); (391888.7,
3747380.1, 29.0, 29.0, 2.0);
(391853.6, 3747430.3, 29.0, 29.0, 2.0); (391842.3,
3747485.1, 29.0, 29.0, 2.0);
(391705.1, 3747221.2, 29.0, 29.0, 2.0); (391890.3,
3747198.7, 29.0, 29.0, 2.0);
(391791.8, 3747248.3, 29.0, 29.0,
2.0);

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***

(1=YES; 0=NO)

```
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file:
KLGB_V9_ADJU\KLGB_v9.SFC Met
Version: 16216
Profile file:
KLGB_V9_ADJU\KLGB_v9.PFL
Surface format:
FREE

Profile format:
FREE

Surface station no.: 23129 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	-5.3	0.094	-9.000	-9.000	-999.	70.	14.3	0.10	2.68	1.00	1.13	322.	7.9	282.0	2.0
12	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	2.68	1.00	0.00	0.	7.9	281.4	2.0
12	01	01	1	03	-2.5	0.068	-9.000	-9.000	-999.	43.	11.4	0.10	2.68	1.00	0.74	79.	7.9	280.9	2.0
12	01	01	1	04	-3.2	0.075	-9.000	-9.000	-999.	49.	11.7	0.10	2.68	1.00	0.86				

```
137.    7.9  280.9    2.0
12 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.10   2.68   1.00    0.00
0.    7.9  280.4    2.0
12 01 01   1 06   -5.2  0.093 -9.000 -9.000 -999.   68.     14.0  0.10   2.68   1.00    1.11
92.    7.9  279.9    2.0
12 01 01   1 07   -2.3  0.066 -9.000 -9.000 -999.   41.     11.5  0.10   2.68   1.00    0.69
67.    7.9  278.8    2.0
12 01 01   1 08   -1.7  0.060 -9.000 -9.000 -999.   36.     11.4  0.10   2.68   0.54    0.65
91.    7.9  279.9    2.0
12 01 01   1 09   36.2 -9.000 -9.000 -9.000   37. -999. -99999.0  0.10   2.68   0.31    0.00
0.    7.9  283.8    2.0
12 01 01   1 10  108.4  0.139  0.707  0.009  119.  124.     -2.3  0.10   2.68   0.24    0.92
319.    7.9  287.5    2.0
12 01 01   1 11  160.5  0.114  1.137  0.005  334.   93.     -1.0  0.10   2.68   0.21    0.62
23.    7.9  292.5    2.0
12 01 01   1 12  186.7  0.125  1.473  0.005  623.  105.     -1.0  0.10   2.68   0.20    0.69
18.    7.9  295.4    2.0
12 01 01   1 13  186.8  0.130  1.761  0.005 1065.  112.     -1.1  0.10   2.68   0.20    0.74
250.    7.9  297.5    2.0
12 01 01   1 14  161.7  0.150  1.834  0.005 1387.  139.     -1.9  0.10   2.68   0.21    0.96
347.    7.9  300.4    2.0
12 01 01   1 15  105.5  0.243  1.633  0.005 1499.  288.    -12.4  0.10   2.68   0.24    2.11
194.    7.9  295.9    2.0
12 01 01   1 16   32.4  0.211  1.109  0.005 1530.  233.    -26.3  0.10   2.68   0.33    1.98
186.    7.9  295.4    2.0
12 01 01   1 17  -20.5  0.250 -9.000 -9.000 -999.  300.     69.2  0.10   2.68   0.60    2.81
293.    7.9  291.4    2.0
12 01 01   1 18  -25.4  0.257 -9.000 -9.000 -999.  313.     72.8  0.10   2.68   1.00    2.90
301.    7.9  288.1    2.0
12 01 01   1 19  -21.0  0.211 -9.000 -9.000 -999.  233.     49.0  0.10   2.68   1.00    2.40
313.    7.9  286.4    2.0
12 01 01   1 20  -25.7  0.258 -9.000 -9.000 -999.  315.     73.3  0.10   2.68   1.00    2.91
302.    7.9  286.4    2.0
12 01 01   1 21  -22.5  0.225 -9.000 -9.000 -999.  256.     55.7  0.10   2.68   1.00    2.55
306.    7.9  285.4    2.0
12 01 01   1 22   -9.3  0.126 -9.000 -9.000 -999.  111.     19.5  0.10   2.68   1.00    1.48
284.    7.9  285.9    2.0
12 01 01   1 23  -21.4  0.214 -9.000 -9.000 -999.  237.     50.3  0.10   2.68   1.00    2.43
282.    7.9  285.4    2.0
12 01 01   1 24  -30.1  0.300 -9.000 -9.000 -999.  394.     98.9  0.10   2.68   1.00    3.36
300.    7.9  284.2    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  322.    1.13   282.1   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/06/23
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***       13:54:20

                      PAGE   9
 *** 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 NOX IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391891.24	3747480.41	1.40013	(13041207)	391892.01	3747456.00	1.49134	(13041207)
391965.04	3747447.61	1.66108	(13041207)	391925.38	3747447.61	1.63653	(13041207)
392089.38	3747454.66	1.68983	(13041207)	392112.83	3747454.85	1.63074	(13041207)
392033.31	3747443.03	1.48116	(13041207)	392142.39	3747442.46	1.34374	(13041207)
392336.71	3747437.69	0.94350	(12122516)	392429.96	3747448.18	0.54487	(12122516)
392412.42	3747555.73	0.43922	(15011116)	392343.77	3747480.03	1.07303	(12122516)
392217.30	3747461.24	1.53801	(12071106)	392161.48	3747408.94	0.70301	(12071106)
391879.25	3747513.22	1.07342	(13041207)	391891.65	3747546.98	1.15338	(13110408)
391891.84	3747573.68	1.21751	(13110408)	391884.40	3747601.90	0.86599	(13110408)
391891.08	3747641.76	0.82454	(16021717)	391889.35	3747663.46	0.70201	(12112916)
391883.45	3747699.92	0.52547	(12112916)	391881.92	3747730.82	0.42115	(12112916)
391884.40	3747754.47	0.36346	(12112916)	391885.36	3747780.40	0.31406	(12112916)
391883.83	3747768.01	0.33644	(12112916)	391493.56	3748488.26	0.05679	(14091424)
391947.12	3747875.71	0.27757	(12020617)	391983.08	3747875.94	0.31269	(12020617)
391885.46	3747791.74	0.29749	(15091424)	391889.32	3747804.03	0.28451	(14091424)
391887.50	3747815.86	0.27221	(14091424)	391874.76	3747826.10	0.25831	(12082022)
391892.74	3747852.04	0.24273	(15072023)	391892.51	3747880.49	0.22306	(15091120)
392032.89	3747873.67	0.33405	(12020617)	392140.29	3747873.36	0.32469	(12020617)
392233.52	3747864.86	0.31546	(14041207)	392523.19	3747518.42	0.25090	(14091722)
392655.00	3747574.84	0.16254	(13092022)	392733.47	3747870.77	0.10897	(16092618)
391927.56	3747940.84	0.20087	(12020617)	391927.83	3747987.42	0.17685	(12020617)
391940.95	3748045.52	0.16266	(12020617)	391926.76	3748083.27	0.14025	(12020617)
391928.37	3748118.62	0.13111	(12020617)	391927.56	3748149.14	0.12288	(12020617)
391892.49	3747904.69	0.20866	(15091120)	391891.96	3747917.81	0.20119	(15091120)
391891.15	3747931.74	0.19357	(15091120)	391885.26	3747942.98	0.18699	(15091120)
391893.29	3747955.03	0.18187	(15091120)	391893.83	3747978.59	0.17100	(15091003)
391893.03	3747994.39	0.16443	(15091003)	391885.80	3748035.62	0.14846	(15091003)
391893.83	3748088.36	0.13212	(14080322)	391894.63	3748143.78	0.11847	(14080322)

391894.10 3748120.49 0.12399 (14080322) 391894.63
3748155.30 0.11582 (14080322)
391891.15 3748182.87 0.10970 (15081805) 391893.03
3748195.99 0.10715 (15081805)
391927.30 3748191.71 0.11310 (12020617) 391928.64
3748236.15 0.10473 (12020617)
391928.64 3748259.98 0.10036 (12020617) 391894.37
3748207.50 0.10493 (15081805)
391891.15 3748220.09 0.10247 (15081805) 391891.15
3748231.06 0.10044 (15081805)
391891.15 3748243.38 0.09822 (15081805) 391891.15
3748255.70 0.09613 (15081802)
391895.17 3748287.02 0.09138 (15081802) 391895.44
3748311.12 0.08780 (15081802)
391886.07 3748326.91 0.08545 (15081802) 391893.83
3748337.09 0.08414 (15081802)
391896.46 3748353.98 0.08198 (13052920) 391943.47
3748329.02 0.09275 (12020617)
391942.12 3748346.05 0.08975 (12020617) 391935.35
3748361.91 0.08590 (12020617)
391897.02 3748404.40 0.07606 (13052920) 391938.93
3748376.12 0.08463 (12020617)
391932.47 3748387.64 0.08173 (12020617) 391891.74
3748427.33 0.07349 (13052920)

*** 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 NOX IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391929.07	3748405.45	0.07874	(12020617)	391929.40	3748424.21	0.07649	(12020617)
391929.73	3748439.17	0.07476	(12020617)	391928.74	3748454.63	0.07282	(12020617)
391897.00	3748453.15	0.07097	(15073104)	391866.08	3747495.99	0.93576	(13041207)
391854.46	3747480.49	0.84435	(13041207)	391855.46	3747526.86	0.85497	(13110408)
391854.21	3747513.99	0.82602	(13110408)	391855.21	3747538.86	0.87176	(13110408)
391855.46	3747549.85	0.88954	(13110408)	392423.79	3747240.43	0.20888	(15090824)
391889.87	3747651.95	0.75627	(16021717)	391853.95	3747577.01	0.83284	(13110408)

391854.20 3747603.13 0.66162 (13110408) 391854.95
3747615.63 0.65445 (16112016)
391855.57 3747626.38 0.64964 (16112016) 391854.14
3747455.54 0.92927 (13041207)
391853.42 3747443.48 0.94638 (13041207) 391888.71
3747380.11 0.78865 (13041207)
391853.60 3747430.34 0.94922 (13041207) 391842.26
3747485.07 0.68705 (13041207)
391705.13 3747221.17 0.27810 (13041207) 391890.27
3747198.72 0.21057 (15071920)
391791.77 3747248.29 0.32991
(13041207)

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF NOX IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	1ST HIGH	1.68983	13041207: AT (392089.38, 3747454.66, 29.00, 29.00, 2.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** 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 1017 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 747 Calm Hours Identified

A Total of 270 Missing Hours Identified (0.62 Percent)

******** FATAL ERROR MESSAGES ********

*** NONE ***

******** WARNING MESSAGES ********

ME W186 128 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used 0.50

ME W187 128 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

****

*** AERMOD Finishes Successfully ***

****

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/6/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt3 PM10\14715 Ops
Alt3 PM10.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID PM_10
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt3 PM10.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
```

```
   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL2         0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL3         0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL4         0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL5         0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL6         0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL7         0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL8         0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL9         0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL10        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL11        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL12        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL13        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL14        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL15        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL16        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL17        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL18        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL19        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL20        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL21        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL22        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL23        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL24        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL25        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL26        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL27        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL28        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL29        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL30        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL31        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL32        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL33        0.0000415793     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Alt3 PM10.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
```

```
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "14715 OPS ALT3 PM10.AD\24H1GALL.PLT" 31
   SUMMFILE "14715 Ops Alt3 PM10.sum"
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/6/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt3 PM10\14715 Ops
Alt3 PM10.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID PM_10
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt3 PM10.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
```

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   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL2         0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL3         0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL4         0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL5         0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL6         0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL7         0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL8         0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL9         0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL10        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL11        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL12        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL13        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL14        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL15        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL16        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL17        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL18        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL19        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL20        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL21        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL22        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL23        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL24        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL25        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL26        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL27        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL28        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL29        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL30        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL31        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL32        0.0000415793     5.000    10.435     1.400
   SRCPARAM VOL33        0.0000415793     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Alt3 PM10.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
```

```
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "14715 OPS ALT3 PM10.AD\24H1GALL.PLT" 31
   SUMMFILE "14715 Ops Alt3 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     128       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     128       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 *********************************
 *** SETUP Finishes Successfully ***
 *********************************

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/06/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        14:02:22

                      PAGE   1
 *** 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    33 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   9818605.0 ;  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:     33 Source(s);       1 Source Group(s); and     105 Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:     33 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) =    10.00 ;  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:   14715 Ops Alt3
 PM10.err
 **File for Summary of Results:   14715 Ops Alt3
 PM10.sum
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/06/23
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***        14:02:22

                      PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.
              URBAN  EMISSION RATE
  SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ
  SOURCE  SCALAR VARY
    ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

- - - - - - - - - - - - -

VOL1	0	0.41579E-04	391943.2	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL2	0	0.41579E-04	391988.3	3747611.1	29.0	5.00	10.44	1.40
YES								
VOL3	0	0.41579E-04	392033.2	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL4	0	0.41579E-04	392078.1	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL5	0	0.41579E-04	392122.7	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL6	0	0.41579E-04	392167.6	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL7	0	0.41579E-04	392175.8	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL8	0	0.41579E-04	392175.0	3747565.7	29.0	5.00	10.44	1.40
YES								
VOL9	0	0.41579E-04	392129.7	3747566.0	29.0	5.00	10.44	1.40
YES								
VOL10	0	0.41579E-04	392084.7	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL11	0	0.41579E-04	392040.2	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL12	0	0.41579E-04	391995.7	3747566.3	29.0	5.00	10.44	1.40
YES								
VOL13	0	0.41579E-04	391951.4	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL14	0	0.41579E-04	391942.7	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL15	0	0.41579E-04	391942.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL16	0	0.41579E-04	391987.4	3747522.1	29.0	5.00	10.44	1.40
YES								
VOL17	0	0.41579E-04	392031.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL18	0	0.41579E-04	392076.4	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL19	0	0.41579E-04	392121.3	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL20	0	0.41579E-04	392165.8	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL21	0	0.41579E-04	392210.9	3747521.2	29.0	5.00	10.44	1.40
YES								
VOL22	0	0.41579E-04	392219.6	3747557.0	29.0	5.00	10.44	1.40
YES								
VOL23	0	0.41579E-04	392237.2	3747556.6	29.0	5.00	10.44	1.40
YES								
VOL24	0	0.41579E-04	392256.9	3747546.6	29.0	5.00	10.44	1.40
YES								
VOL25	0	0.41579E-04	392256.5	3747502.1	29.0	5.00	10.44	1.40
YES								
VOL26	0	0.41579E-04	392256.3	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL27	0	0.41579E-04	392211.2	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL28	0	0.41579E-04	392167.1	3747484.7	29.0	5.00	10.44	1.40
YES								
VOL29	0	0.41579E-04	392122.1	3747484.9	29.0	5.00	10.44	1.40
YES								
VOL30	0	0.41579E-04	392076.7	3747485.0	29.0	5.00	10.44	1.40
YES								
VOL31	0	0.41579E-04	392032.1	3747485.2	29.0	5.00	10.44	1.40
YES								
VOL32	0	0.41579E-04	391987.1	3747485.9	29.0	5.00	10.44	1.40
YES								

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
9818605.	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 ,

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391891.2, 3747480.4, 29.0, 29.0, 2.0); (391892.0, 3747456.0, 29.0, 29.0, 2.0);
(391965.0, 3747447.6, 29.0, 29.0, 2.0); (391925.4, 3747447.6, 29.0, 29.0, 2.0);
(392089.4, 3747454.7, 29.0, 29.0, 2.0); (392112.8, 3747454.8, 29.0, 29.0, 2.0);
(392033.3, 3747443.0, 29.0, 29.0, 2.0); (392142.4, 3747442.5, 29.0, 29.0, 2.0);
(392336.7, 3747437.7, 29.0, 29.0, 2.0); (392430.0, 3747448.2, 29.0, 29.0, 2.0);
(392412.4, 3747555.7, 29.0, 29.0, 2.0); (392343.8, 3747480.0, 29.0, 29.0, 2.0);
(392217.3, 3747461.2, 29.0, 29.0, 2.0); (392161.5, 3747408.9, 29.0, 29.0, 2.0);
(391879.2, 3747513.2, 29.0, 29.0, 2.0); (391891.6, 3747547.0, 29.0, 29.0, 2.0);
(391891.8, 3747573.7, 29.0, 29.0, 2.0); (391884.4, 3747601.9, 29.0, 29.0, 2.0);
(391891.1, 3747641.8, 29.0, 29.0, 2.0); (391889.3, 3747663.5, 29.0, 29.0, 2.0);
(391883.5, 3747699.9, 29.0, 29.0, 2.0); (391881.9, 3747730.8, 29.0, 29.0, 2.0);
(391884.4, 3747754.5, 29.0, 29.0, 2.0); (391885.4, 3747780.4, 29.0, 29.0, 2.0);
(391883.8, 3747768.0, 29.0, 29.0, 2.0); (391493.6, 3748488.3, 29.0, 29.0, 2.0);
(391947.1, 3747875.7, 29.0, 29.0, 2.0); (391983.1, 3747875.9, 29.0, 29.0, 2.0);
(391885.5, 3747791.7, 29.0, 29.0, 2.0); (391889.3, 3747804.0, 29.0, 29.0, 2.0);
(391887.5, 3747815.9, 29.0, 29.0, 2.0); (391874.8, 3747826.1, 29.0, 29.0, 2.0);
(391892.7, 3747852.0, 29.0, 29.0, 2.0); (391892.5, 3747880.5, 29.0, 29.0, 2.0);
(392032.9, 3747873.7, 29.0, 29.0, 2.0); (392140.3, 3747873.4, 29.0, 29.0, 2.0);
(392233.5, 3747864.9, 29.0, 29.0, 2.0); (392523.2, 3747518.4, 28.3, 28.3, 2.0);
(392655.0, 3747574.8, 28.0, 28.0, 2.0); (392733.5, 3747870.8, 27.6, 27.6, 2.0);
(391927.6, 3747940.8, 29.0, 29.0, 2.0); (391927.8, 3747987.4, 29.0, 29.0, 2.0);
(391941.0, 3748045.5, 29.0, 29.0, 2.0); (391926.8, 3748083.3, 29.0, 29.0, 2.0);
(391928.4, 3748118.6, 29.0, 29.0, 2.0); (391927.6, 3748149.1, 29.0, 29.0, 2.0);
(391892.5, 3747904.7, 29.0, 29.0, 2.0); (391892.0, 3747917.8, 29.0, 29.0, 2.0);
(391891.1, 3747931.7, 29.0, 29.0, 2.0); (391885.3, 3747943.0, 29.0, 29.0, 2.0);
(391893.3, 3747955.0, 29.0, 29.0, 2.0); (391893.8, 3747978.6, 29.0, 29.0, 2.0);
(391893.0, 3747994.4, 29.0, 29.0, 2.0); (391885.8, 3748035.6, 29.0, 29.0, 2.0);
(391893.8, 3748088.4, 29.0, 29.0, 2.0); (391894.6, 3748143.8, 29.0, 29.0, 2.0);
(391894.1, 3748120.5, 29.0, 29.0, 2.0); (391894.6, 3748155.3, 29.0, 29.0, 2.0);
(391891.1, 3748182.9, 29.0, 29.0, 2.0); (391893.0, 3748196.0, 29.0, 29.0, 2.0);
(391927.3, 3748191.7, 29.0, 29.0, 2.0); (391928.6,

3748236.1, 29.0, 29.0, 2.0);
(391928.6, 3748260.0, 29.0, 29.0, 2.0); (391894.4,
3748207.5, 29.0, 29.0, 2.0);
(391891.1, 3748220.1, 29.0, 29.0, 2.0); (391891.1,
3748231.1, 29.0, 29.0, 2.0);
(391891.1, 3748243.4, 29.0, 29.0, 2.0); (391891.1,
3748255.7, 29.0, 29.0, 2.0);
(391895.2, 3748287.0, 29.0, 29.0, 2.0); (391895.4,
3748311.1, 29.0, 29.0, 2.0);
(391886.1, 3748326.9, 29.0, 29.0, 2.0); (391893.8,
3748337.1, 29.0, 29.0, 2.0);
(391896.5, 3748354.0, 29.0, 29.0, 2.0); (391943.5,
3748329.0, 29.0, 29.0, 2.0);
(391942.1, 3748346.0, 29.0, 29.0, 2.0); (391935.3,
3748361.9, 29.0, 29.0, 2.0);
(391897.0, 3748404.4, 29.0, 29.0, 2.0); (391938.9,
3748376.1, 29.0, 29.0, 2.0);
(391932.5, 3748387.6, 29.0, 29.0, 2.0); (391891.7,
3748427.3, 29.0, 29.0, 2.0);
(391929.1, 3748405.4, 29.0, 29.0, 2.0); (391929.4,
3748424.2, 29.0, 29.0, 2.0);
(391929.7, 3748439.2, 29.0, 29.0, 2.0); (391928.7,
3748454.6, 29.0, 29.0, 2.0);
(391897.0, 3748453.1, 29.0, 29.0, 2.0); (391866.1,
3747496.0, 29.0, 29.0, 2.0);
(391854.5, 3747480.5, 29.0, 29.0, 2.0); (391855.5,
3747526.9, 29.0, 29.0, 2.0);
(391854.2, 3747514.0, 29.0, 29.0, 2.0); (391855.2,
3747538.9, 29.0, 29.0, 2.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391855.5, 3747549.8, 29.0, 29.0, 2.0); (392423.8,
3747240.4, 29.0, 29.0, 2.0);
(391889.9, 3747651.9, 29.0, 29.0, 2.0); (391854.0,
3747577.0, 29.0, 29.0, 2.0);
(391854.2, 3747603.1, 29.0, 29.0, 2.0); (391855.0,
3747615.6, 29.0, 29.0, 2.0);
(391855.6, 3747626.4, 29.0, 29.0, 2.0); (391854.1,
3747455.5, 29.0, 29.0, 2.0);
(391853.4, 3747443.5, 29.0, 29.0, 2.0); (391888.7,
3747380.1, 29.0, 29.0, 2.0);
(391853.6, 3747430.3, 29.0, 29.0, 2.0); (391842.3,
3747485.1, 29.0, 29.0, 2.0);
(391705.1, 3747221.2, 29.0, 29.0, 2.0); (391890.3,
3747198.7, 29.0, 29.0, 2.0);
(391791.8, 3747248.3, 29.0, 29.0,
2.0);

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***

(1=YES; 0=NO)

```
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file:
KLGB_V9_ADJU\KLGB_v9.SFC Met
Version: 16216
Profile file:
KLGB_V9_ADJU\KLGB_v9.PFL
Surface format:
FREE

Profile format:
FREE

Surface station no.: 23129 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	-5.3	0.094	-9.000	-9.000	-999.	70.	14.3	0.10	2.68	1.00	1.13	322.	7.9	282.0	2.0
12	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	2.68	1.00	0.00	0.	7.9	281.4	2.0
12	01	01	1	03	-2.5	0.068	-9.000	-9.000	-999.	43.	11.4	0.10	2.68	1.00	0.74	79.	7.9	280.9	2.0
12	01	01	1	04	-3.2	0.075	-9.000	-9.000	-999.	49.	11.7	0.10	2.68	1.00	0.86				

```
137.    7.9  280.9    2.0
12 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.10   2.68   1.00    0.00
0.    7.9  280.4    2.0
12 01 01   1 06   -5.2  0.093 -9.000 -9.000 -999.   68.     14.0  0.10   2.68   1.00    1.11
92.    7.9  279.9    2.0
12 01 01   1 07   -2.3  0.066 -9.000 -9.000 -999.   41.     11.5  0.10   2.68   1.00    0.69
67.    7.9  278.8    2.0
12 01 01   1 08   -1.7  0.060 -9.000 -9.000 -999.   36.     11.4  0.10   2.68   0.54    0.65
91.    7.9  279.9    2.0
12 01 01   1 09   36.2 -9.000 -9.000 -9.000   37. -999. -99999.0  0.10   2.68   0.31    0.00
0.    7.9  283.8    2.0
12 01 01   1 10  108.4  0.139  0.707  0.009  119.  124.     -2.3  0.10   2.68   0.24    0.92
319.    7.9  287.5    2.0
12 01 01   1 11  160.5  0.114  1.137  0.005  334.   93.     -1.0  0.10   2.68   0.21    0.62
23.    7.9  292.5    2.0
12 01 01   1 12  186.7  0.125  1.473  0.005  623.  105.     -1.0  0.10   2.68   0.20    0.69
18.    7.9  295.4    2.0
12 01 01   1 13  186.8  0.130  1.761  0.005 1065.  112.     -1.1  0.10   2.68   0.20    0.74
250.    7.9  297.5    2.0
12 01 01   1 14  161.7  0.150  1.834  0.005 1387.  139.     -1.9  0.10   2.68   0.21    0.96
347.    7.9  300.4    2.0
12 01 01   1 15  105.5  0.243  1.633  0.005 1499.  288.    -12.4  0.10   2.68   0.24    2.11
194.    7.9  295.9    2.0
12 01 01   1 16   32.4  0.211  1.109  0.005 1530.  233.    -26.3  0.10   2.68   0.33    1.98
186.    7.9  295.4    2.0
12 01 01   1 17  -20.5  0.250 -9.000 -9.000 -999.  300.     69.2  0.10   2.68   0.60    2.81
293.    7.9  291.4    2.0
12 01 01   1 18  -25.4  0.257 -9.000 -9.000 -999.  313.     72.8  0.10   2.68   1.00    2.90
301.    7.9  288.1    2.0
12 01 01   1 19  -21.0  0.211 -9.000 -9.000 -999.  233.     49.0  0.10   2.68   1.00    2.40
313.    7.9  286.4    2.0
12 01 01   1 20  -25.7  0.258 -9.000 -9.000 -999.  315.     73.3  0.10   2.68   1.00    2.91
302.    7.9  286.4    2.0
12 01 01   1 21  -22.5  0.225 -9.000 -9.000 -999.  256.     55.7  0.10   2.68   1.00    2.55
306.    7.9  285.4    2.0
12 01 01   1 22   -9.3  0.126 -9.000 -9.000 -999.  111.     19.5  0.10   2.68   1.00    1.48
284.    7.9  285.9    2.0
12 01 01   1 23  -21.4  0.214 -9.000 -9.000 -999.  237.     50.3  0.10   2.68   1.00    2.43
282.    7.9  285.4    2.0
12 01 01   1 24  -30.1  0.300 -9.000 -9.000 -999.  394.     98.9  0.10   2.68   1.00    3.36
300.    7.9  284.2    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  322.    1.13   282.1   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/06/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        14:02:22

                      PAGE   9
 *** 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        , 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_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391891.24	3747480.41	0.08023	(12121624)	391892.01	3747456.00	0.06377	(12121624)
391965.04	3747447.61	0.10006c	(12122924)	391925.38	3747447.61	0.08173c	(12122924)
392089.38	3747454.66	0.14055c	(12122524)	392112.83	3747454.85	0.14260c	(12122524)
392033.31	3747443.03	0.10815c	(12122524)	392142.39	3747442.46	0.11550c	(12122524)
392336.71	3747437.69	0.05913	(13122724)	392429.96	3747448.18	0.03046	(13040124)
392412.42	3747555.73	0.03204	(15040624)	392343.77	3747480.03	0.06048	(16101624)
392217.30	3747461.24	0.15825c	(12122524)	392161.48	3747408.94	0.07316m	(15020724)
391879.25	3747513.22	0.07685	(12121624)	391891.65	3747546.98	0.09116	(14121624)
391891.84	3747573.68	0.09062	(14121624)	391884.40	3747601.90	0.07686	(12112924)
391891.08	3747641.76	0.06706	(12112924)	391889.35	3747663.46	0.05500	(12112924)
391883.45	3747699.92	0.03938	(12112924)	391881.92	3747730.82	0.03299	(13043024)
391884.40	3747754.47	0.03032	(13043024)	391885.36	3747780.40	0.02759	(16061124)
391883.83	3747768.01	0.02860	(13043024)	391493.56	3748488.26	0.00390	(14083124)
391947.12	3747875.71	0.02293	(16061124)	391983.08	3747875.94	0.02304	(16061124)
391885.46	3747791.74	0.02661	(16061124)	391889.32	3747804.03	0.02605	(16061124)
391887.50	3747815.86	0.02487	(16061124)	391874.76	3747826.10	0.02280	(16061124)
391892.74	3747852.04	0.02261	(16061124)	391892.51	3747880.49	0.02069	(16061124)
392032.89	3747873.67	0.02308	(12041924)	392140.29	3747873.36	0.02291	(16051624)
392233.52	3747864.86	0.02168	(14052424)	392523.19	3747518.42	0.01930	(16101624)
392655.00	3747574.84	0.01132	(15040624)	392733.47	3747870.77	0.00586	(12110824)
391927.56	3747940.84	0.01799	(16061124)	391927.83	3747987.42	0.01548	(16061124)
391940.95	3748045.52	0.01285	(16061124)	391926.76	3748083.27	0.01156	(16061124)
391928.37	3748118.62	0.01062	(12041924)	391927.56	3748149.14	0.00994	(12041924)
391892.49	3747904.69	0.01924	(16061124)	391891.96	3747917.81	0.01849	(16061124)
391891.15	3747931.74	0.01773	(16061124)	391885.26	3747942.98	0.01698	(16061124)
391893.29	3747955.03	0.01663	(16061124)	391893.83	3747978.59	0.01556	(16061124)
391893.03	3747994.39	0.01486	(16061124)	391885.80	3748035.62	0.01319	(16061124)
391893.83	3748088.36	0.01148	(16061124)	391894.63	3748143.78	0.00991	(16061124)

391894.10 3748120.49 0.01054 (16061124) 391894.63
3748155.30 0.00961 (16061124)
391891.15 3748182.87 0.00897 (16061124) 391893.03
3748195.99 0.00870 (12041924)
391927.30 3748191.71 0.00910 (12041924) 391928.64
3748236.15 0.00833 (12041924)
391928.64 3748259.98 0.00795 (12041924) 391894.37
3748207.50 0.00853 (12041924)
391891.15 3748220.09 0.00831 (12041924) 391891.15
3748231.06 0.00814 (12041924)
391891.15 3748243.38 0.00797 (12041924) 391891.15
3748255.70 0.00780 (12041924)
391895.17 3748287.02 0.00741 (12041924) 391895.44
3748311.12 0.00710 (12041924)
391886.07 3748326.91 0.00687 (12041924) 391893.83
3748337.09 0.00679 (12041924)
391896.46 3748353.98 0.00661 (12041924) 391943.47
3748329.02 0.00699 (12041924)
391942.12 3748346.05 0.00678 (12041924) 391935.35
3748361.91 0.00659 (12041924)
391897.02 3748404.40 0.00608 (12041924) 391938.93
3748376.12 0.00642 (12041924)
391932.47 3748387.64 0.00629 (12041924) 391891.74
3748427.33 0.00585 (12041924)

*** 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 , 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_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391929.07	3748405.45	0.00610	(12041924)	391929.40	3748424.21	0.00591	(12041924)
391929.73	3748439.17	0.00576	(12041924)	391928.74	3748454.63	0.00561	(12041924)
391897.00	3748453.15	0.00562	(12041924)	391866.08	3747495.99	0.06585	(12121624)
391854.46	3747480.49	0.05640	(12121624)	391855.46	3747526.86	0.06165	(14121624)
391854.21	3747513.99	0.05998	(12121624)	391855.21	3747538.86	0.06249	(14121624)
391855.46	3747549.85	0.06296	(14121624)	392423.79	3747240.43	0.01995	(16122724)
391889.87	3747651.95	0.06095	(12112924)	391853.95	3747577.01	0.05970	(14121624)

391854.20 3747603.13 0.05394 (12112924) 391854.95
3747615.63 0.05263 (12112924)
391855.57 3747626.38 0.05096 (12112924) 391854.14
3747455.54 0.04855 (12121624)
391853.42 3747443.48 0.04423 (12121624) 391888.71
3747380.11 0.03540c (12122924)
391853.60 3747430.34 0.04005 (12121624) 391842.26
3747485.07 0.05181 (12121624)
391705.13 3747221.17 0.01065c (12122924) 391890.27
3747198.72 0.01369c (12122924)
391791.77 3747248.29 0.01412c
(12122924)

FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1 *** 09/06/23
*** AERMET - VERSION 16216 ***
*** *** 14:02:22

PAGE 11
*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	0.15825c ON 12122524:	AT (392217.30, 3747461.24, 29.00, 29.00, 2.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1 *** 09/06/23
*** AERMET - VERSION 16216 ***
*** *** 14:02:22

PAGE 12
*** 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 1017 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 747 Calm Hours Identified

A Total of 270 Missing Hours Identified (0.62 Percent)

******** FATAL ERROR MESSAGES ********

*** NONE ***

******** WARNING MESSAGES ********

ME W186 128 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used 0.50

ME W187 128 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

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*** AERMOD Finishes Successfully ***

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**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/6/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt3 PM25\14715 Ops
Alt3 PM25.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID PM_2.5
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt3 PM25.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
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   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0000176397     5.000    10.435     1.400
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   SRCPARAM VOL4         0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL5         0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL6         0.0000176397     5.000    10.435     1.400
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   SRCPARAM VOL9         0.0000176397     5.000    10.435     1.400
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   SRCPARAM VOL12        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL13        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL14        0.0000176397     5.000    10.435     1.400
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   SRCPARAM VOL32        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL33        0.0000176397     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Alt3 PM25.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
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**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
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** AERMOD Output Pathway
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**
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OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "14715 OPS ALT3 PM25.AD\24H1GALL.PLT" 31
   SUMMFILE "14715 Ops Alt3 PM25.sum"
OU FINISHED
**
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** Project Parameters
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** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
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** Lakes Environmental AERMOD MPI
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** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/6/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt3 PM25\14715 Ops
Alt3 PM25.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID PM_2.5
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt3 PM25.err"
CO FINISHED
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**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
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   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
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   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
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   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
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   SRCPARAM VOL13        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL14        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL15        0.0000176397     5.000    10.435     1.400
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   SRCPARAM VOL17        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL18        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL19        0.0000176397     5.000    10.435     1.400
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   SRCPARAM VOL23        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL24        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL25        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL26        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL27        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL28        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL29        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL30        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL31        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL32        0.0000176397     5.000    10.435     1.400
   SRCPARAM VOL33        0.0000176397     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Alt3 PM25.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
```

```
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "14715 OPS ALT3 PM25.AD\24H1GALL.PLT" 31
   SUMMFILE "14715 Ops Alt3 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     128       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     128       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 *********************************
 *** SETUP Finishes Successfully ***
 *********************************

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/06/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        14:06:15

                      PAGE   1
 *** 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    33 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   9818605.0 ;  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:     33 Source(s);       1 Source Group(s); and     105 Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:     33 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) =    10.00 ;  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:   14715 Ops Alt3
 PM25.err
 **File for Summary of Results:   14715 Ops Alt3
 PM25.sum
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/06/23
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***        14:06:15

                     PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.
              URBAN  EMISSION RATE
  SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ
  SOURCE  SCALAR VARY
    ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

- - - - - - - - - - - - -

VOL1	0	0.17640E-04	391943.2	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL2	0	0.17640E-04	391988.3	3747611.1	29.0	5.00	10.44	1.40
YES								
VOL3	0	0.17640E-04	392033.2	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL4	0	0.17640E-04	392078.1	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL5	0	0.17640E-04	392122.7	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL6	0	0.17640E-04	392167.6	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL7	0	0.17640E-04	392175.8	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL8	0	0.17640E-04	392175.0	3747565.7	29.0	5.00	10.44	1.40
YES								
VOL9	0	0.17640E-04	392129.7	3747566.0	29.0	5.00	10.44	1.40
YES								
VOL10	0	0.17640E-04	392084.7	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL11	0	0.17640E-04	392040.2	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL12	0	0.17640E-04	391995.7	3747566.3	29.0	5.00	10.44	1.40
YES								
VOL13	0	0.17640E-04	391951.4	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL14	0	0.17640E-04	391942.7	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL15	0	0.17640E-04	391942.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL16	0	0.17640E-04	391987.4	3747522.1	29.0	5.00	10.44	1.40
YES								
VOL17	0	0.17640E-04	392031.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL18	0	0.17640E-04	392076.4	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL19	0	0.17640E-04	392121.3	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL20	0	0.17640E-04	392165.8	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL21	0	0.17640E-04	392210.9	3747521.2	29.0	5.00	10.44	1.40
YES								
VOL22	0	0.17640E-04	392219.6	3747557.0	29.0	5.00	10.44	1.40
YES								
VOL23	0	0.17640E-04	392237.2	3747556.6	29.0	5.00	10.44	1.40
YES								
VOL24	0	0.17640E-04	392256.9	3747546.6	29.0	5.00	10.44	1.40
YES								
VOL25	0	0.17640E-04	392256.5	3747502.1	29.0	5.00	10.44	1.40
YES								
VOL26	0	0.17640E-04	392256.3	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL27	0	0.17640E-04	392211.2	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL28	0	0.17640E-04	392167.1	3747484.7	29.0	5.00	10.44	1.40
YES								
VOL29	0	0.17640E-04	392122.1	3747484.9	29.0	5.00	10.44	1.40
YES								
VOL30	0	0.17640E-04	392076.7	3747485.0	29.0	5.00	10.44	1.40
YES								
VOL31	0	0.17640E-04	392032.1	3747485.2	29.0	5.00	10.44	1.40
YES								
VOL32	0	0.17640E-04	391987.1	3747485.9	29.0	5.00	10.44	1.40
YES								

VOL33 0 0.17640E-04 391942.7 3747485.9 29.0 5.00 10.44 1.40
YES

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
9818605.	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 ,

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391891.2, 3747480.4, 29.0, 29.0, 2.0); (391892.0, 3747456.0, 29.0, 29.0, 2.0);
(391965.0, 3747447.6, 29.0, 29.0, 2.0); (391925.4, 3747447.6, 29.0, 29.0, 2.0);
(392089.4, 3747454.7, 29.0, 29.0, 2.0); (392112.8, 3747454.8, 29.0, 29.0, 2.0);
(392033.3, 3747443.0, 29.0, 29.0, 2.0); (392142.4, 3747442.5, 29.0, 29.0, 2.0);
(392336.7, 3747437.7, 29.0, 29.0, 2.0); (392430.0, 3747448.2, 29.0, 29.0, 2.0);
(392412.4, 3747555.7, 29.0, 29.0, 2.0); (392343.8, 3747480.0, 29.0, 29.0, 2.0);
(392217.3, 3747461.2, 29.0, 29.0, 2.0); (392161.5, 3747408.9, 29.0, 29.0, 2.0);
(391879.2, 3747513.2, 29.0, 29.0, 2.0); (391891.6, 3747547.0, 29.0, 29.0, 2.0);
(391891.8, 3747573.7, 29.0, 29.0, 2.0); (391884.4, 3747601.9, 29.0, 29.0, 2.0);
(391891.1, 3747641.8, 29.0, 29.0, 2.0); (391889.3, 3747663.5, 29.0, 29.0, 2.0);
(391883.5, 3747699.9, 29.0, 29.0, 2.0); (391881.9, 3747730.8, 29.0, 29.0, 2.0);
(391884.4, 3747754.5, 29.0, 29.0, 2.0); (391885.4, 3747780.4, 29.0, 29.0, 2.0);
(391883.8, 3747768.0, 29.0, 29.0, 2.0); (391493.6, 3748488.3, 29.0, 29.0, 2.0);
(391947.1, 3747875.7, 29.0, 29.0, 2.0); (391983.1, 3747875.9, 29.0, 29.0, 2.0);
(391885.5, 3747791.7, 29.0, 29.0, 2.0); (391889.3, 3747804.0, 29.0, 29.0, 2.0);
(391887.5, 3747815.9, 29.0, 29.0, 2.0); (391874.8, 3747826.1, 29.0, 29.0, 2.0);
(391892.7, 3747852.0, 29.0, 29.0, 2.0); (391892.5, 3747880.5, 29.0, 29.0, 2.0);
(392032.9, 3747873.7, 29.0, 29.0, 2.0); (392140.3, 3747873.4, 29.0, 29.0, 2.0);
(392233.5, 3747864.9, 29.0, 29.0, 2.0); (392523.2, 3747518.4, 28.3, 28.3, 2.0);
(392655.0, 3747574.8, 28.0, 28.0, 2.0); (392733.5, 3747870.8, 27.6, 27.6, 2.0);
(391927.6, 3747940.8, 29.0, 29.0, 2.0); (391927.8, 3747987.4, 29.0, 29.0, 2.0);
(391941.0, 3748045.5, 29.0, 29.0, 2.0); (391926.8, 3748083.3, 29.0, 29.0, 2.0);
(391928.4, 3748118.6, 29.0, 29.0, 2.0); (391927.6, 3748149.1, 29.0, 29.0, 2.0);
(391892.5, 3747904.7, 29.0, 29.0, 2.0); (391892.0, 3747917.8, 29.0, 29.0, 2.0);
(391891.1, 3747931.7, 29.0, 29.0, 2.0); (391885.3, 3747943.0, 29.0, 29.0, 2.0);
(391893.3, 3747955.0, 29.0, 29.0, 2.0); (391893.8, 3747978.6, 29.0, 29.0, 2.0);
(391893.0, 3747994.4, 29.0, 29.0, 2.0); (391885.8, 3748035.6, 29.0, 29.0, 2.0);
(391893.8, 3748088.4, 29.0, 29.0, 2.0); (391894.6, 3748143.8, 29.0, 29.0, 2.0);
(391894.1, 3748120.5, 29.0, 29.0, 2.0); (391894.6, 3748155.3, 29.0, 29.0, 2.0);
(391891.1, 3748182.9, 29.0, 29.0, 2.0); (391893.0, 3748196.0, 29.0, 29.0, 2.0);
(391927.3, 3748191.7, 29.0, 29.0, 2.0); (391928.6,

3748236.1, 29.0, 29.0, 2.0);
(391928.6, 3748260.0, 29.0, 29.0, 2.0); (391894.4,
3748207.5, 29.0, 29.0, 2.0);
(391891.1, 3748220.1, 29.0, 29.0, 2.0); (391891.1,
3748231.1, 29.0, 29.0, 2.0);
(391891.1, 3748243.4, 29.0, 29.0, 2.0); (391891.1,
3748255.7, 29.0, 29.0, 2.0);
(391895.2, 3748287.0, 29.0, 29.0, 2.0); (391895.4,
3748311.1, 29.0, 29.0, 2.0);
(391886.1, 3748326.9, 29.0, 29.0, 2.0); (391893.8,
3748337.1, 29.0, 29.0, 2.0);
(391896.5, 3748354.0, 29.0, 29.0, 2.0); (391943.5,
3748329.0, 29.0, 29.0, 2.0);
(391942.1, 3748346.0, 29.0, 29.0, 2.0); (391935.3,
3748361.9, 29.0, 29.0, 2.0);
(391897.0, 3748404.4, 29.0, 29.0, 2.0); (391938.9,
3748376.1, 29.0, 29.0, 2.0);
(391932.5, 3748387.6, 29.0, 29.0, 2.0); (391891.7,
3748427.3, 29.0, 29.0, 2.0);
(391929.1, 3748405.4, 29.0, 29.0, 2.0); (391929.4,
3748424.2, 29.0, 29.0, 2.0);
(391929.7, 3748439.2, 29.0, 29.0, 2.0); (391928.7,
3748454.6, 29.0, 29.0, 2.0);
(391897.0, 3748453.1, 29.0, 29.0, 2.0); (391866.1,
3747496.0, 29.0, 29.0, 2.0);
(391854.5, 3747480.5, 29.0, 29.0, 2.0); (391855.5,
3747526.9, 29.0, 29.0, 2.0);
(391854.2, 3747514.0, 29.0, 29.0, 2.0); (391855.2,
3747538.9, 29.0, 29.0, 2.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391855.5, 3747549.8, 29.0, 29.0, 2.0); (392423.8,
3747240.4, 29.0, 29.0, 2.0);
(391889.9, 3747651.9, 29.0, 29.0, 2.0); (391854.0,
3747577.0, 29.0, 29.0, 2.0);
(391854.2, 3747603.1, 29.0, 29.0, 2.0); (391855.0,
3747615.6, 29.0, 29.0, 2.0);
(391855.6, 3747626.4, 29.0, 29.0, 2.0); (391854.1,
3747455.5, 29.0, 29.0, 2.0);
(391853.4, 3747443.5, 29.0, 29.0, 2.0); (391888.7,
3747380.1, 29.0, 29.0, 2.0);
(391853.6, 3747430.3, 29.0, 29.0, 2.0); (391842.3,
3747485.1, 29.0, 29.0, 2.0);
(391705.1, 3747221.2, 29.0, 29.0, 2.0); (391890.3,
3747198.7, 29.0, 29.0, 2.0);
(391791.8, 3747248.3, 29.0, 29.0,
2.0);

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***

(1=YES; 0=NO)

```
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file:
KLGB_V9_ADJU\KLGB_v9.SFC Met
Version: 16216
Profile file:
KLGB_V9_ADJU\KLGB_v9.PFL
Surface format:
FREE

Profile format:
FREE

Surface station no.: 23129 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	-5.3	0.094	-9.000	-9.000	-999.	70.	14.3	0.10	2.68	1.00	1.13	322.	7.9	282.0	2.0
12	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	2.68	1.00	0.00	0.	7.9	281.4	2.0
12	01	01	1	03	-2.5	0.068	-9.000	-9.000	-999.	43.	11.4	0.10	2.68	1.00	0.74	79.	7.9	280.9	2.0
12	01	01	1	04	-3.2	0.075	-9.000	-9.000	-999.	49.	11.7	0.10	2.68	1.00	0.86				

```
137.    7.9  280.9    2.0
12 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.10   2.68   1.00    0.00
0.    7.9  280.4    2.0
12 01 01   1 06   -5.2  0.093 -9.000 -9.000 -999.   68.     14.0  0.10   2.68   1.00    1.11
92.    7.9  279.9    2.0
12 01 01   1 07   -2.3  0.066 -9.000 -9.000 -999.   41.     11.5  0.10   2.68   1.00    0.69
67.    7.9  278.8    2.0
12 01 01   1 08   -1.7  0.060 -9.000 -9.000 -999.   36.     11.4  0.10   2.68   0.54    0.65
91.    7.9  279.9    2.0
12 01 01   1 09   36.2 -9.000 -9.000 -9.000   37. -999. -99999.0  0.10   2.68   0.31    0.00
0.    7.9  283.8    2.0
12 01 01   1 10  108.4  0.139  0.707  0.009  119.  124.     -2.3  0.10   2.68   0.24    0.92
319.    7.9  287.5    2.0
12 01 01   1 11  160.5  0.114  1.137  0.005  334.   93.     -1.0  0.10   2.68   0.21    0.62
23.    7.9  292.5    2.0
12 01 01   1 12  186.7  0.125  1.473  0.005  623.  105.     -1.0  0.10   2.68   0.20    0.69
18.    7.9  295.4    2.0
12 01 01   1 13  186.8  0.130  1.761  0.005 1065.  112.     -1.1  0.10   2.68   0.20    0.74
250.    7.9  297.5    2.0
12 01 01   1 14  161.7  0.150  1.834  0.005 1387.  139.     -1.9  0.10   2.68   0.21    0.96
347.    7.9  300.4    2.0
12 01 01   1 15  105.5  0.243  1.633  0.005 1499.  288.    -12.4  0.10   2.68   0.24    2.11
194.    7.9  295.9    2.0
12 01 01   1 16   32.4  0.211  1.109  0.005 1530.  233.    -26.3  0.10   2.68   0.33    1.98
186.    7.9  295.4    2.0
12 01 01   1 17  -20.5  0.250 -9.000 -9.000 -999.  300.     69.2  0.10   2.68   0.60    2.81
293.    7.9  291.4    2.0
12 01 01   1 18  -25.4  0.257 -9.000 -9.000 -999.  313.     72.8  0.10   2.68   1.00    2.90
301.    7.9  288.1    2.0
12 01 01   1 19  -21.0  0.211 -9.000 -9.000 -999.  233.     49.0  0.10   2.68   1.00    2.40
313.    7.9  286.4    2.0
12 01 01   1 20  -25.7  0.258 -9.000 -9.000 -999.  315.     73.3  0.10   2.68   1.00    2.91
302.    7.9  286.4    2.0
12 01 01   1 21  -22.5  0.225 -9.000 -9.000 -999.  256.     55.7  0.10   2.68   1.00    2.55
306.    7.9  285.4    2.0
12 01 01   1 22   -9.3  0.126 -9.000 -9.000 -999.  111.     19.5  0.10   2.68   1.00    1.48
284.    7.9  285.9    2.0
12 01 01   1 23  -21.4  0.214 -9.000 -9.000 -999.  237.     50.3  0.10   2.68   1.00    2.43
282.    7.9  285.4    2.0
12 01 01   1 24  -30.1  0.300 -9.000 -9.000 -999.  394.     98.9  0.10   2.68   1.00    3.36
300.    7.9  284.2    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  322.    1.13   282.1   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/06/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       14:06:15

                      PAGE   9
 *** 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        , 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_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391891.24	3747480.41	0.03404	(12121624)	391892.01	3747456.00	0.02705	(12121624)
391965.04	3747447.61	0.04245c	(12122924)	391925.38	3747447.61	0.03467c	(12122924)
392089.38	3747454.66	0.05963c	(12122524)	392112.83	3747454.85	0.06050c	(12122524)
392033.31	3747443.03	0.04588c	(12122524)	392142.39	3747442.46	0.04900c	(12122524)
392336.71	3747437.69	0.02509	(13122724)	392429.96	3747448.18	0.01292	(13040124)
392412.42	3747555.73	0.01359	(15040624)	392343.77	3747480.03	0.02566	(16101624)
392217.30	3747461.24	0.06714c	(12122524)	392161.48	3747408.94	0.03104m	(15020724)
391879.25	3747513.22	0.03260	(12121624)	391891.65	3747546.98	0.03867	(14121624)
391891.84	3747573.68	0.03844	(14121624)	391884.40	3747601.90	0.03261	(12112924)
391891.08	3747641.76	0.02845	(12112924)	391889.35	3747663.46	0.02334	(12112924)
391883.45	3747699.92	0.01671	(12112924)	391881.92	3747730.82	0.01399	(13043024)
391884.40	3747754.47	0.01286	(13043024)	391885.36	3747780.40	0.01170	(16061124)
391883.83	3747768.01	0.01213	(13043024)	391493.56	3748488.26	0.00165	(14083124)
391947.12	3747875.71	0.00973	(16061124)	391983.08	3747875.94	0.00977	(16061124)
391885.46	3747791.74	0.01129	(16061124)	391889.32	3747804.03	0.01105	(16061124)
391887.50	3747815.86	0.01055	(16061124)	391874.76	3747826.10	0.00967	(16061124)
391892.74	3747852.04	0.00959	(16061124)	391892.51	3747880.49	0.00878	(16061124)
392032.89	3747873.67	0.00979	(12041924)	392140.29	3747873.36	0.00972	(16051624)
392233.52	3747864.86	0.00920	(14052424)	392523.19	3747518.42	0.00819	(16101624)
392655.00	3747574.84	0.00480	(15040624)	392733.47	3747870.77	0.00249	(12110824)
391927.56	3747940.84	0.00763	(16061124)	391927.83	3747987.42	0.00657	(16061124)
391940.95	3748045.52	0.00545	(16061124)	391926.76	3748083.27	0.00490	(16061124)
391928.37	3748118.62	0.00451	(12041924)	391927.56	3748149.14	0.00422	(12041924)
391892.49	3747904.69	0.00816	(16061124)	391891.96	3747917.81	0.00784	(16061124)
391891.15	3747931.74	0.00752	(16061124)	391885.26	3747942.98	0.00721	(16061124)
391893.29	3747955.03	0.00706	(16061124)	391893.83	3747978.59	0.00660	(16061124)
391893.03	3747994.39	0.00631	(16061124)	391885.80	3748035.62	0.00559	(16061124)
391893.83	3748088.36	0.00487	(16061124)	391894.63	3748143.78	0.00420	(16061124)

391894.10 3748120.49 0.00447 (16061124) 391894.63
3748155.30 0.00408 (16061124)
391891.15 3748182.87 0.00381 (16061124) 391893.03
3748195.99 0.00369 (12041924)
391927.30 3748191.71 0.00386 (12041924) 391928.64
3748236.15 0.00353 (12041924)
391928.64 3748259.98 0.00337 (12041924) 391894.37
3748207.50 0.00362 (12041924)
391891.15 3748220.09 0.00352 (12041924) 391891.15
3748231.06 0.00346 (12041924)
391891.15 3748243.38 0.00338 (12041924) 391891.15
3748255.70 0.00331 (12041924)
391895.17 3748287.02 0.00314 (12041924) 391895.44
3748311.12 0.00301 (12041924)
391886.07 3748326.91 0.00291 (12041924) 391893.83
3748337.09 0.00288 (12041924)
391896.46 3748353.98 0.00280 (12041924) 391943.47
3748329.02 0.00297 (12041924)
391942.12 3748346.05 0.00287 (12041924) 391935.35
3748361.91 0.00279 (12041924)
391897.02 3748404.40 0.00258 (12041924) 391938.93
3748376.12 0.00272 (12041924)
391932.47 3748387.64 0.00267 (12041924) 391891.74
3748427.33 0.00248 (12041924)

*** 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 , 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_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391929.07	3748405.45	0.00259	(12041924)	391929.40	3748424.21	0.00251	(12041924)
391929.73	3748439.17	0.00244	(12041924)	391928.74	3748454.63	0.00238	(12041924)
391897.00	3748453.15	0.00239	(12041924)	391866.08	3747495.99	0.02794	(12121624)
391854.46	3747480.49	0.02393	(12121624)	391855.46	3747526.86	0.02615	(14121624)
391854.21	3747513.99	0.02545	(12121624)	391855.21	3747538.86	0.02651	(14121624)
391855.46	3747549.85	0.02671	(14121624)	392423.79	3747240.43	0.00846	(16122724)
391889.87	3747651.95	0.02586	(12112924)	391853.95	3747577.01	0.02533	(14121624)

391854.20 3747603.13 0.02288 (12112924) 391854.95
3747615.63 0.02233 (12112924)
391855.57 3747626.38 0.02162 (12112924) 391854.14
3747455.54 0.02060 (12121624)
391853.42 3747443.48 0.01876 (12121624) 391888.71
3747380.11 0.01502c (12122924)
391853.60 3747430.34 0.01699 (12121624) 391842.26
3747485.07 0.02198 (12121624)
391705.13 3747221.17 0.00452c (12122924) 391890.27
3747198.72 0.00581c (12122924)
391791.77 3747248.29 0.00599c
(12122924)

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	0.06714c ON 12122524:	AT (392217.30, 3747461.24, 29.00, 29.00, 2.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** 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 1017 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 747 Calm Hours Identified

A Total of 270 Missing Hours Identified (0.62 Percent)

******** FATAL ERROR MESSAGES ********

*** NONE ***

******** WARNING MESSAGES ********

ME W186 128 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used 0.50

ME W187 128 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

****

*** AERMOD Finishes Successfully ***

****

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**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/7/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt4 CO\14715 Ops
Alt4 CO.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 1 8
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID CO
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt4 CO.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
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   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL2         0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL3         0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL4         0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL5         0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL6         0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL7         0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL8         0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL9         0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL10        0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL11        0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL12        0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL13        0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL14        0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL15        0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL16        0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL17        0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL18        0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL19        0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL20        0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL21        0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL22        0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL23        0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL24        0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL25        0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL26        0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL27        0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL28        0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL29        0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL30        0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL31        0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL32        0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL33        0.0056699046     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Alt4 CO.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
```

```
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 8 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14715 OPS ALT4 CO.AD\01H1GALL.PLT" 31
   PLOTFILE 8 ALL 1ST "14715 OPS ALT4 CO.AD\08H1GALL.PLT" 32
   SUMMFILE "14715 Ops Alt4 CO.sum"
OU FINISHED
**
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** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

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** Lakes Environmental AERMOD MPI
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/7/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt4 CO\14715 Ops
Alt4 CO.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 1 8
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID CO
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt4 CO.err"
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
```

```
   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL2         0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL3         0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL4         0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL5         0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL6         0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL7         0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL8         0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL9         0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL10        0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL11        0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL12        0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL13        0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL14        0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL15        0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL16        0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL17        0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL18        0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL19        0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL20        0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL21        0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL22        0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL23        0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL24        0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL25        0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL26        0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL27        0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL28        0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL29        0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL30        0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL31        0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL32        0.0056699046     5.000    10.435     1.400
   SRCPARAM VOL33        0.0056699046     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Alt4 CO.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
```

```
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 8 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14715 OPS ALT4 CO.AD\01H1GALL.PLT" 31
   PLOTFILE 8 ALL 1ST "14715 OPS ALT4 CO.AD\08H1GALL.PLT" 32
   SUMMFILE "14715 Ops Alt4 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     128       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     128       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 **********************************
 *** SETUP Finishes Successfully ***
 **********************************

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       10:49:58

                      PAGE   1
 *** 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    33 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   9818605.0 ;  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:     33 Source(s);       1 Source Group(s); and     105 Receptor(s)

               with:      0 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:     33 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) =    10.00 ;  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:   14715 Ops Alt4
 CO.err
 **File for Summary of Results:   14715 Ops Alt4
 CO.sum
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       10:49:58

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.
              URBAN  EMISSION RATE
  SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ
  SOURCE  SCALAR VARY
    ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
```

(METERS) BY

VOL1	0	0.56699E-02	391943.2	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL2	0	0.56699E-02	391988.3	3747611.1	29.0	5.00	10.44	1.40
YES								
VOL3	0	0.56699E-02	392033.2	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL4	0	0.56699E-02	392078.1	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL5	0	0.56699E-02	392122.7	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL6	0	0.56699E-02	392167.6	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL7	0	0.56699E-02	392175.8	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL8	0	0.56699E-02	392175.0	3747565.7	29.0	5.00	10.44	1.40
YES								
VOL9	0	0.56699E-02	392129.7	3747566.0	29.0	5.00	10.44	1.40
YES								
VOL10	0	0.56699E-02	392084.7	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL11	0	0.56699E-02	392040.2	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL12	0	0.56699E-02	391995.7	3747566.3	29.0	5.00	10.44	1.40
YES								
VOL13	0	0.56699E-02	391951.4	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL14	0	0.56699E-02	391942.7	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL15	0	0.56699E-02	391942.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL16	0	0.56699E-02	391987.4	3747522.1	29.0	5.00	10.44	1.40
YES								
VOL17	0	0.56699E-02	392031.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL18	0	0.56699E-02	392076.4	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL19	0	0.56699E-02	392121.3	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL20	0	0.56699E-02	392165.8	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL21	0	0.56699E-02	392210.9	3747521.2	29.0	5.00	10.44	1.40
YES								
VOL22	0	0.56699E-02	392219.6	3747557.0	29.0	5.00	10.44	1.40
YES								
VOL23	0	0.56699E-02	392237.2	3747556.6	29.0	5.00	10.44	1.40
YES								
VOL24	0	0.56699E-02	392256.9	3747546.6	29.0	5.00	10.44	1.40
YES								
VOL25	0	0.56699E-02	392256.5	3747502.1	29.0	5.00	10.44	1.40
YES								
VOL26	0	0.56699E-02	392256.3	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL27	0	0.56699E-02	392211.2	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL28	0	0.56699E-02	392167.1	3747484.7	29.0	5.00	10.44	1.40
YES								
VOL29	0	0.56699E-02	392122.1	3747484.9	29.0	5.00	10.44	1.40
YES								
VOL30	0	0.56699E-02	392076.7	3747485.0	29.0	5.00	10.44	1.40
YES								
VOL31	0	0.56699E-02	392032.1	3747485.2	29.0	5.00	10.44	1.40
YES								

```
 VOL32            0   0.56699E-02  391987.1 3747485.9    29.0     5.00    10.44     1.40
 YES
 VOL33            0   0.56699E-02  391942.7 3747485.9    29.0     5.00    10.44     1.40
 YES
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       10:49:58

                      PAGE   3
 *** 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         ,

              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       ,
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       10:49:58

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                          *** SOURCE IDs DEFINED AS URBAN SOURCES ***

  URBAN ID   URBAN POP                                    SOURCE IDs
  --------   ---------                                    ----------


               9818605.   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       ,
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       10:49:58
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391891.2, 3747480.4, 29.0, 29.0, 2.0); (391892.0, 3747456.0, 29.0, 29.0, 2.0);
(391965.0, 3747447.6, 29.0, 29.0, 2.0); (391925.4, 3747447.6, 29.0, 29.0, 2.0);
(392089.4, 3747454.7, 29.0, 29.0, 2.0); (392112.8, 3747454.8, 29.0, 29.0, 2.0);
(392033.3, 3747443.0, 29.0, 29.0, 2.0); (392142.4, 3747442.5, 29.0, 29.0, 2.0);
(392336.7, 3747437.7, 29.0, 29.0, 2.0); (392430.0, 3747448.2, 29.0, 29.0, 2.0);
(392412.4, 3747555.7, 29.0, 29.0, 2.0); (392343.8, 3747480.0, 29.0, 29.0, 2.0);
(392217.3, 3747461.2, 29.0, 29.0, 2.0); (392161.5, 3747408.9, 29.0, 29.0, 2.0);
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(392655.0, 3747574.8, 28.0, 28.0, 2.0); (392733.5, 3747870.8, 27.6, 27.6, 2.0);
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(391886.1, 3748326.9, 29.0, 29.0, 2.0); (391893.8,
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(391896.5, 3748354.0, 29.0, 29.0, 2.0); (391943.5,
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(391942.1, 3748346.0, 29.0, 29.0, 2.0); (391935.3,
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(391897.0, 3748404.4, 29.0, 29.0, 2.0); (391938.9,
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(391932.5, 3748387.6, 29.0, 29.0, 2.0); (391891.7,
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(391929.1, 3748405.4, 29.0, 29.0, 2.0); (391929.4,
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(391929.7, 3748439.2, 29.0, 29.0, 2.0); (391928.7,
3748454.6, 29.0, 29.0, 2.0);
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(391854.2, 3747514.0, 29.0, 29.0, 2.0); (391855.2,
3747538.9, 29.0, 29.0, 2.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391855.5, 3747549.8, 29.0, 29.0, 2.0); (392423.8,
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(391889.9, 3747651.9, 29.0, 29.0, 2.0); (391854.0,
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3747380.1, 29.0, 29.0, 2.0);
(391853.6, 3747430.3, 29.0, 29.0, 2.0); (391842.3,
3747485.1, 29.0, 29.0, 2.0);
(391705.1, 3747221.2, 29.0, 29.0, 2.0); (391890.3,
3747198.7, 29.0, 29.0, 2.0);
(391791.8, 3747248.3, 29.0, 29.0,
2.0);

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

```
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file:
KLGB_V9_ADJU\KLGB_v9.SFC Met
Version: 16216
Profile file:
KLGB_V9_ADJU\KLGB_v9.PFL
Surface format:
FREE

Profile format:
FREE

Surface station no.: 23129 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	-5.3	0.094	-9.000	-9.000	-999.	70.	14.3	0.10	2.68	1.00	1.13	322.	7.9	282.0	2.0
12	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	2.68	1.00	0.00	0.	7.9	281.4	2.0
12	01	01	1	03	-2.5	0.068	-9.000	-9.000	-999.	43.	11.4	0.10	2.68	1.00	0.74				

```
 79.    7.9  280.9    2.0
 12 01 01   1 04   -3.2  0.075 -9.000 -9.000 -999.   49.     11.7  0.10   2.68   1.00    0.86
 137.    7.9  280.9    2.0
 12 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.10   2.68   1.00    0.00
 0.    7.9  280.4    2.0
 12 01 01   1 06   -5.2  0.093 -9.000 -9.000 -999.   68.     14.0  0.10   2.68   1.00    1.11
 92.    7.9  279.9    2.0
 12 01 01   1 07   -2.3  0.066 -9.000 -9.000 -999.   41.     11.5  0.10   2.68   1.00    0.69
 67.    7.9  278.8    2.0
 12 01 01   1 08   -1.7  0.060 -9.000 -9.000 -999.   36.     11.4  0.10   2.68   0.54    0.65
 91.    7.9  279.9    2.0
 12 01 01   1 09   36.2 -9.000 -9.000 -9.000   37. -999. -99999.0  0.10   2.68   0.31    0.00
 0.    7.9  283.8    2.0
 12 01 01   1 10  108.4  0.139  0.707  0.009  119.  124.     -2.3  0.10   2.68   0.24    0.92
 319.    7.9  287.5    2.0
 12 01 01   1 11  160.5  0.114  1.137  0.005  334.   93.     -1.0  0.10   2.68   0.21    0.62
 23.    7.9  292.5    2.0
 12 01 01   1 12  186.7  0.125  1.473  0.005  623.  105.     -1.0  0.10   2.68   0.20    0.69
 18.    7.9  295.4    2.0
 12 01 01   1 13  186.8  0.130  1.761  0.005 1065.  112.     -1.1  0.10   2.68   0.20    0.74
 250.    7.9  297.5    2.0
 12 01 01   1 14  161.7  0.150  1.834  0.005 1387.  139.     -1.9  0.10   2.68   0.21    0.96
 347.    7.9  300.4    2.0
 12 01 01   1 15  105.5  0.243  1.633  0.005 1499.  288.    -12.4  0.10   2.68   0.24    2.11
 194.    7.9  295.9    2.0
 12 01 01   1 16   32.4  0.211  1.109  0.005 1530.  233.    -26.3  0.10   2.68   0.33    1.98
 186.    7.9  295.4    2.0
 12 01 01   1 17  -20.5  0.250 -9.000 -9.000 -999.  300.     69.2  0.10   2.68   0.60    2.81
 293.    7.9  291.4    2.0
 12 01 01   1 18  -25.4  0.257 -9.000 -9.000 -999.  313.     72.8  0.10   2.68   1.00    2.90
 301.    7.9  288.1    2.0
 12 01 01   1 19  -21.0  0.211 -9.000 -9.000 -999.  233.     49.0  0.10   2.68   1.00    2.40
 313.    7.9  286.4    2.0
 12 01 01   1 20  -25.7  0.258 -9.000 -9.000 -999.  315.     73.3  0.10   2.68   1.00    2.91
 302.    7.9  286.4    2.0
 12 01 01   1 21  -22.5  0.225 -9.000 -9.000 -999.  256.     55.7  0.10   2.68   1.00    2.55
 306.    7.9  285.4    2.0
 12 01 01   1 22   -9.3  0.126 -9.000 -9.000 -999.  111.     19.5  0.10   2.68   1.00    1.48
 284.    7.9  285.9    2.0
 12 01 01   1 23  -21.4  0.214 -9.000 -9.000 -999.  237.     50.3  0.10   2.68   1.00    2.43
 282.    7.9  285.4    2.0
 12 01 01   1 24  -30.1  0.300 -9.000 -9.000 -999.  394.     98.9  0.10   2.68   1.00    3.36
 300.    7.9  284.2    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  322.    1.13   282.1   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***       10:49:58

                      PAGE   9
 *** 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)
391891.24	3747480.41	31.34610	(13041207)	391892.01	3747456.00	33.38824	(13041207)
391965.04	3747447.61	37.18839	(13041207)	391925.38	3747447.61	36.63883	(13041207)
392089.38	3747454.66	37.83207	(13041207)	392112.83	3747454.85	36.50906	(13041207)
392033.31	3747443.03	33.16023	(13041207)	392142.39	3747442.46	30.08377	(13041207)
392336.71	3747437.69	21.12323	(12122516)	392429.96	3747448.18	12.19868	(12122516)
392412.42	3747555.73	9.83319	(15011116)	392343.77	3747480.03	24.02305	(12122516)
392217.30	3747461.24	34.43302	(12071106)	392161.48	3747408.94	15.73903	(12071106)
391879.25	3747513.22	24.03178	(13041207)	391891.65	3747546.98	25.82197	(13110408)
391891.84	3747573.68	27.25763	(13110408)	391884.40	3747601.90	19.38789	(13110408)
391891.08	3747641.76	18.45983	(16021717)	391889.35	3747663.46	15.71659	(12112916)
391883.45	3747699.92	11.76417	(12112916)	391881.92	3747730.82	9.42881	(12112916)
391884.40	3747754.47	8.13706	(12112916)	391885.36	3747780.40	7.03117	(12112916)
391883.83	3747768.01	7.53216	(12112916)	391493.56	3748488.26	1.27138	(14091424)
391947.12	3747875.71	6.21423	(12020617)	391983.08	3747875.94	7.00045	(12020617)
391885.46	3747791.74	6.66014	(15091424)	391889.32	3747804.03	6.36961	(14091424)
391887.50	3747815.86	6.09433	(14091424)	391874.76	3747826.10	5.78302	(12082022)
391892.74	3747852.04	5.43421	(15072023)	391892.51	3747880.49	4.99382	(15091120)
392032.89	3747873.67	7.47866	(12020617)	392140.29	3747873.36	7.26911	(12020617)
392233.52	3747864.86	7.06258	(14041207)	392523.19	3747518.42	5.61721	(14091722)
392655.00	3747574.84	3.63906	(13092022)	392733.47	3747870.77	2.43968	(16092618)
391927.56	3747940.84	4.49701	(12020617)	391927.83	3747987.42	3.95935	(12020617)
391940.95	3748045.52	3.64153	(12020617)	391926.76	3748083.27	3.13990	(12020617)
391928.37	3748118.62	2.93534	(12020617)	391927.56	3748149.14	2.75103	(12020617)
391892.49	3747904.69	4.67142	(15091120)	391891.96	3747917.81	4.50417	(15091120)
391891.15	3747931.74	4.33357	(15091120)	391885.26	3747942.98	4.18630	(15091120)
391893.29	3747955.03	4.07174	(15091120)	391893.83	3747978.59	3.82843	(15091003)
391893.03	3747994.39	3.68136	(15091003)	391885.80	3748035.62	3.32369	(15091003)

391893.83   3748088.36   2.95790 (14080322)   391894.63
3748143.78   2.65227 (14080322)
391894.10   3748120.49   2.77599 (14080322)   391894.63
3748155.30   2.59303 (14080322)
391891.15   3748182.87   2.45593 (15081805)   391893.03
3748195.99   2.39891 (15081805)
391927.30   3748191.71   2.53219 (12020617)   391928.64
3748236.15   2.34468 (12020617)
391928.64   3748259.98   2.24693 (12020617)   391894.37
3748207.50   2.34925 (15081805)
391891.15   3748220.09   2.29399 (15081805)   391891.15
3748231.06   2.24868 (15081805)
391891.15   3748243.38   2.19904 (15081805)   391891.15
3748255.70   2.15210 (15081802)
391895.17   3748287.02   2.04576 (15081802)   391895.44
3748311.12   1.96572 (15081802)
391886.07   3748326.91   1.91296 (15081802)   391893.83
3748337.09   1.88364 (15081802)
391896.46   3748353.98   1.83547 (13052920)   391943.47
3748329.02   2.07654 (12020617)
391942.12   3748346.05   2.00932 (12020617)   391935.35
3748361.91   1.92320 (12020617)
391897.02   3748404.40   1.70291 (13052920)   391938.93
3748376.12   1.89465 (12020617)
391932.47   3748387.64   1.82977 (12020617)   391891.74
3748427.33   1.64539 (13052920)

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1 ***   09/07/23
*** AERMET - VERSION 16216 ***
***   ***   10:49:58

PAGE 10
*** 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)
- -
391929.07   3748405.45   1.76275 (12020617)   391929.40
3748424.21   1.71238 (12020617)
391929.73   3748439.17   1.67384 (12020617)   391928.74
3748454.63   1.63022 (12020617)
391897.00   3748453.15   1.58893 (15073104)   391866.08
3747495.99   20.94978 (13041207)
391854.46   3747480.49   18.90344 (13041207)   391855.46
3747526.86   19.14108 (13110408)
391854.21   3747513.99   18.49309 (13110408)   391855.21
3747538.86   19.51692 (13110408)
391855.46   3747549.85   19.91498 (13110408)   392423.79
3747240.43   4.67634 (15090824)

391889.87 3747651.95 16.93146 (16021717) 391853.95
3747577.01 18.64575 (13110408)
391854.20 3747603.13 14.81246 (13110408) 391854.95
3747615.63 14.65176 (16112016)
391855.57 3747626.38 14.54413 (16112016) 391854.14
3747455.54 20.80447 (13041207)
391853.42 3747443.48 21.18756 (13041207) 391888.71
3747380.11 17.65632 (13041207)
391853.60 3747430.34 21.25121 (13041207) 391842.26
3747485.07 15.38166 (13041207)
391705.13 3747221.17 6.22606 (13041207) 391890.27
3747198.72 4.71434 (15071920)
391791.77 3747248.29 7.38594
(13041207)

*** 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 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391891.24	3747480.41	14.32796	(13012408)	391892.01	3747456.00	12.28271	(12121624)
391965.04	3747447.61	19.92708	(14021308)	391925.38	3747447.61	15.43777	(14021308)
392089.38	3747454.66	27.29153	(14021308)	392112.83	3747454.85	27.57551	(14021308)
392033.31	3747443.03	21.56981	(14021308)	392142.39	3747442.46	21.95975	(14021308)
392336.71	3747437.69	11.74244m	(12050224)	392429.96	3747448.18	6.36162	(16101608)
392412.42	3747555.73	7.70330	(12110824)	392343.77	3747480.03	11.50156	(16101608)
392217.30	3747461.24	30.27922	(14021308)	392161.48	3747408.94	13.94404	(14021308)
391879.25	3747513.22	14.27143	(14120308)	391891.65	3747546.98	16.98227	(14021308)
391891.84	3747573.68	16.68969	(14021308)	391884.40	3747601.90	14.33666	(13021808)
391891.08	3747641.76	13.14900	(13052508)	391889.35	3747663.46	11.06652	(13021908)
391883.45	3747699.92	8.32865	(13021908)	391881.92	3747730.82	6.95324	(15090108)
391884.40	3747754.47	6.37609	(13091724)	391885.36	3747780.40	5.83316	(13091724)

391883.83 3747768.01 6.06380 (13091724) 391493.56
3748488.26 0.99176 (13091724)
391947.12 3747875.71 4.42344 (15082008) 391983.08
3747875.94 4.53636 (13041424)
391885.46 3747791.74 5.60723 (13091724) 391889.32
3747804.03 5.42018 (13091724)
391887.50 3747815.86 5.18000 (13091724) 391874.76
3747826.10 4.87438 (13091724)
391892.74 3747852.04 4.60307 (13091724) 391892.51
3747880.49 4.16772 (13091724)
392032.89 3747873.67 4.69873 (13041424) 392140.29
3747873.36 4.39516 (12042924)
392233.52 3747864.86 4.55642 (12042924) 392523.19
3747518.42 4.12504 (15091524)
392655.00 3747574.84 2.86844 (12110824) 392733.47
3747870.77 1.58894 (12041224)
391927.56 3747940.84 3.50371 (15082008) 391927.83
3747987.42 3.01146 (15082008)
391940.95 3748045.52 2.67943 (13041424) 391926.76
3748083.27 2.41732 (13041424)
391928.37 3748118.62 2.24936 (13041424) 391927.56
3748149.14 2.11165 (13041424)
391892.49 3747904.69 3.83286 (13091724) 391891.96
3747917.81 3.66294 (13091724)
391891.15 3747931.74 3.50947 (15082008) 391885.26
3747942.98 3.37017 (15082008)
391893.29 3747955.03 3.28690 (15082008) 391893.83
3747978.59 3.07129 (15082008)
391893.03 3747994.39 2.93368 (15082008) 391885.80
3748035.62 2.60605 (15082008)
391893.83 3748088.36 2.26003 (13041424) 391894.63
3748143.78 2.04519 (13041424)
391894.10 3748120.49 2.13153 (13041424) 391894.63
3748155.30 2.00323 (13041424)
391891.15 3748182.87 1.89806 (13041424) 391893.03
3748195.99 1.85978 (13041424)
391927.30 3748191.71 1.94026 (13041424) 391928.64
3748236.15 1.78267 (13041424)
391928.64 3748259.98 1.70456 (13041424) 391894.37
3748207.50 1.82582 (13041424)
391891.15 3748220.09 1.77963 (13041424) 391891.15
3748231.06 1.74654 (13041424)
391891.15 3748243.38 1.71032 (13041424) 391891.15
3748255.70 1.67505 (13041424)
391895.17 3748287.02 1.59458 (13041424) 391895.44
3748311.12 1.53195 (13041424)
391886.07 3748326.91 1.48355 (13041424) 391893.83
3748337.09 1.46644 (13041424)
391896.46 3748353.98 1.42848 (13041424) 391943.47
3748329.02 1.50259 (13041424)
391942.12 3748346.05 1.45716 (13041424) 391935.35
3748361.91 1.41803 (13041424)
391897.02 3748404.40 1.31752 (13041424) 391938.93
3748376.12 1.38221 (13041424)
391932.47 3748387.64 1.35653 (13041424) 391891.74
3748427.33 1.26938 (13041424)

*** 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 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391929.07	3748405.45	1.31673	(13041424)	391929.40	3748424.21	1.27581	(13041424)
391929.73	3748439.17	1.24437	(13041424)	391928.74	3748454.63	1.21348	(13041424)
391897.00	3748453.15	1.22065	(13041424)	391866.08	3747495.99	12.23809	(13012408)
391854.46	3747480.49	10.95178	(13012408)	391855.46	3747526.86	12.02814	(14120308)
391854.21	3747513.99	11.72861	(14120308)	391855.21	3747538.86	12.06069	(14113008)
391855.46	3747549.85	12.31513	(14113008)	392423.79	3747240.43	4.29774c	(12120424)
391889.87	3747651.95	12.12566	(13052508)	391853.95	3747577.01	11.96759	(14113008)
391854.20	3747603.13	11.10502	(13021808)	391854.95	3747615.63	10.86689	(13021808)
391855.57	3747626.38	10.50032	(13021808)	391854.14	3747455.54	9.75422	(13012408)
391853.42	3747443.48	8.94249	(12121624)	391888.71	3747380.11	6.78681	(12120908)
391853.60	3747430.34	8.36657	(12121624)	391842.26	3747485.07	10.18664	(13012408)
391705.13	3747221.17	2.46272	(12120908)	391890.27	3747198.72	2.78152	(16121008)
391791.77	3747248.29	3.02908	(12120908)				

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF CO IN
MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID

ALL HIGH 1ST HIGH VALUE IS 37.83207 ON 13041207: AT (392089.38, 3747454.66, 29.00, 29.00, 2.00) DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** THE SUMMARY OF HIGHEST 8-HR RESULTS ***

** CONC OF CO IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	30.27922	ON 14021308: AT (392217.30, 3747461.24, 29.00, 29.00, 2.00)	DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** 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 1017 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 747 Calm Hours Identified

A Total of 270 Missing Hours Identified (0.62 Percent)

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********

```
ME W186     128       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187     128       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

   ************************************
   *** AERMOD Finishes Successfully ***
   ************************************
```

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/7/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt4 NOX\14715 Ops
Alt4 NOX.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 1
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID NOX
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt4 NOX.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
```

```
   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL2         0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL3         0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL4         0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL5         0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL6         0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL7         0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL8         0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL9         0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL10        0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL11        0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL12        0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL13        0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL14        0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL15        0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL16        0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL17        0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL18        0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL19        0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL20        0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL21        0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL22        0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL23        0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL24        0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL25        0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL26        0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL27        0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL28        0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL29        0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL30        0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL31        0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL32        0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL33        0.0018521688     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Alt4 NOX.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
```

```
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14715 OPS ALT4 NOX.AD\01H1GALL.PLT" 31
   SUMMFILE "14715 Ops Alt4 NOX.sum"
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/7/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt4 NOX\14715 Ops
Alt4 NOX.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 1
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID NOX
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt4 NOX.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
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   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
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   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
```

```
   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL2         0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL3         0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL4         0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL5         0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL6         0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL7         0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL8         0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL9         0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL10        0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL11        0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL12        0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL13        0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL14        0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL15        0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL16        0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL17        0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL18        0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL19        0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL20        0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL21        0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL22        0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL23        0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL24        0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL25        0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL26        0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL27        0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL28        0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL29        0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL30        0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL31        0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL32        0.0018521688     5.000    10.435     1.400
   SRCPARAM VOL33        0.0018521688     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Alt4 NOX.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
```

```
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14715 OPS ALT4 NOX.AD\01H1GALL.PLT" 31
   SUMMFILE "14715 Ops Alt4 NOX.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     128       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     128       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 ***********************************
 *** SETUP Finishes Successfully ***
 ***********************************

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        10:55:00

                      PAGE   1
 *** 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    33 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   9818605.0 ;  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:     33 Source(s);       1 Source Group(s); and     105 Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:     33 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) =    10.00 ;  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:   14715 Ops Alt4
 NOX.err
 **File for Summary of Results:   14715 Ops Alt4
 NOX.sum
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        10:55:00

                      PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.
              URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ
   SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
     (METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

- - - - - - - - - - - - -

VOL1	0	0.18522E-02	391943.2	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL2	0	0.18522E-02	391988.3	3747611.1	29.0	5.00	10.44	1.40
YES								
VOL3	0	0.18522E-02	392033.2	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL4	0	0.18522E-02	392078.1	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL5	0	0.18522E-02	392122.7	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL6	0	0.18522E-02	392167.6	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL7	0	0.18522E-02	392175.8	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL8	0	0.18522E-02	392175.0	3747565.7	29.0	5.00	10.44	1.40
YES								
VOL9	0	0.18522E-02	392129.7	3747566.0	29.0	5.00	10.44	1.40
YES								
VOL10	0	0.18522E-02	392084.7	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL11	0	0.18522E-02	392040.2	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL12	0	0.18522E-02	391995.7	3747566.3	29.0	5.00	10.44	1.40
YES								
VOL13	0	0.18522E-02	391951.4	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL14	0	0.18522E-02	391942.7	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL15	0	0.18522E-02	391942.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL16	0	0.18522E-02	391987.4	3747522.1	29.0	5.00	10.44	1.40
YES								
VOL17	0	0.18522E-02	392031.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL18	0	0.18522E-02	392076.4	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL19	0	0.18522E-02	392121.3	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL20	0	0.18522E-02	392165.8	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL21	0	0.18522E-02	392210.9	3747521.2	29.0	5.00	10.44	1.40
YES								
VOL22	0	0.18522E-02	392219.6	3747557.0	29.0	5.00	10.44	1.40
YES								
VOL23	0	0.18522E-02	392237.2	3747556.6	29.0	5.00	10.44	1.40
YES								
VOL24	0	0.18522E-02	392256.9	3747546.6	29.0	5.00	10.44	1.40
YES								
VOL25	0	0.18522E-02	392256.5	3747502.1	29.0	5.00	10.44	1.40
YES								
VOL26	0	0.18522E-02	392256.3	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL27	0	0.18522E-02	392211.2	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL28	0	0.18522E-02	392167.1	3747484.7	29.0	5.00	10.44	1.40
YES								
VOL29	0	0.18522E-02	392122.1	3747484.9	29.0	5.00	10.44	1.40
YES								
VOL30	0	0.18522E-02	392076.7	3747485.0	29.0	5.00	10.44	1.40
YES								
VOL31	0	0.18522E-02	392032.1	3747485.2	29.0	5.00	10.44	1.40
YES								
VOL32	0	0.18522E-02	391987.1	3747485.9	29.0	5.00	10.44	1.40
YES								

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
9818605.	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 ,

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391891.2, 3747480.4, 29.0, 29.0, 2.0); (391892.0, 3747456.0, 29.0, 29.0, 2.0);
(391965.0, 3747447.6, 29.0, 29.0, 2.0); (391925.4, 3747447.6, 29.0, 29.0, 2.0);
(392089.4, 3747454.7, 29.0, 29.0, 2.0); (392112.8, 3747454.8, 29.0, 29.0, 2.0);
(392033.3, 3747443.0, 29.0, 29.0, 2.0); (392142.4, 3747442.5, 29.0, 29.0, 2.0);
(392336.7, 3747437.7, 29.0, 29.0, 2.0); (392430.0, 3747448.2, 29.0, 29.0, 2.0);
(392412.4, 3747555.7, 29.0, 29.0, 2.0); (392343.8, 3747480.0, 29.0, 29.0, 2.0);
(392217.3, 3747461.2, 29.0, 29.0, 2.0); (392161.5, 3747408.9, 29.0, 29.0, 2.0);
(391879.2, 3747513.2, 29.0, 29.0, 2.0); (391891.6, 3747547.0, 29.0, 29.0, 2.0);
(391891.8, 3747573.7, 29.0, 29.0, 2.0); (391884.4, 3747601.9, 29.0, 29.0, 2.0);
(391891.1, 3747641.8, 29.0, 29.0, 2.0); (391889.3, 3747663.5, 29.0, 29.0, 2.0);
(391883.5, 3747699.9, 29.0, 29.0, 2.0); (391881.9, 3747730.8, 29.0, 29.0, 2.0);
(391884.4, 3747754.5, 29.0, 29.0, 2.0); (391885.4, 3747780.4, 29.0, 29.0, 2.0);
(391883.8, 3747768.0, 29.0, 29.0, 2.0); (391493.6, 3748488.3, 29.0, 29.0, 2.0);
(391947.1, 3747875.7, 29.0, 29.0, 2.0); (391983.1, 3747875.9, 29.0, 29.0, 2.0);
(391885.5, 3747791.7, 29.0, 29.0, 2.0); (391889.3, 3747804.0, 29.0, 29.0, 2.0);
(391887.5, 3747815.9, 29.0, 29.0, 2.0); (391874.8, 3747826.1, 29.0, 29.0, 2.0);
(391892.7, 3747852.0, 29.0, 29.0, 2.0); (391892.5, 3747880.5, 29.0, 29.0, 2.0);
(392032.9, 3747873.7, 29.0, 29.0, 2.0); (392140.3, 3747873.4, 29.0, 29.0, 2.0);
(392233.5, 3747864.9, 29.0, 29.0, 2.0); (392523.2, 3747518.4, 28.3, 28.3, 2.0);
(392655.0, 3747574.8, 28.0, 28.0, 2.0); (392733.5, 3747870.8, 27.6, 27.6, 2.0);
(391927.6, 3747940.8, 29.0, 29.0, 2.0); (391927.8, 3747987.4, 29.0, 29.0, 2.0);
(391941.0, 3748045.5, 29.0, 29.0, 2.0); (391926.8, 3748083.3, 29.0, 29.0, 2.0);
(391928.4, 3748118.6, 29.0, 29.0, 2.0); (391927.6, 3748149.1, 29.0, 29.0, 2.0);
(391892.5, 3747904.7, 29.0, 29.0, 2.0); (391892.0, 3747917.8, 29.0, 29.0, 2.0);
(391891.1, 3747931.7, 29.0, 29.0, 2.0); (391885.3, 3747943.0, 29.0, 29.0, 2.0);
(391893.3, 3747955.0, 29.0, 29.0, 2.0); (391893.8, 3747978.6, 29.0, 29.0, 2.0);
(391893.0, 3747994.4, 29.0, 29.0, 2.0); (391885.8, 3748035.6, 29.0, 29.0, 2.0);
(391893.8, 3748088.4, 29.0, 29.0, 2.0); (391894.6, 3748143.8, 29.0, 29.0, 2.0);
(391894.1, 3748120.5, 29.0, 29.0, 2.0); (391894.6, 3748155.3, 29.0, 29.0, 2.0);
(391891.1, 3748182.9, 29.0, 29.0, 2.0); (391893.0, 3748196.0, 29.0, 29.0, 2.0);
(391927.3, 3748191.7, 29.0, 29.0, 2.0); (391928.6,

3748236.1, 29.0, 29.0, 2.0);
(391928.6, 3748260.0, 29.0, 29.0, 2.0); (391894.4,
3748207.5, 29.0, 29.0, 2.0);
(391891.1, 3748220.1, 29.0, 29.0, 2.0); (391891.1,
3748231.1, 29.0, 29.0, 2.0);
(391891.1, 3748243.4, 29.0, 29.0, 2.0); (391891.1,
3748255.7, 29.0, 29.0, 2.0);
(391895.2, 3748287.0, 29.0, 29.0, 2.0); (391895.4,
3748311.1, 29.0, 29.0, 2.0);
(391886.1, 3748326.9, 29.0, 29.0, 2.0); (391893.8,
3748337.1, 29.0, 29.0, 2.0);
(391896.5, 3748354.0, 29.0, 29.0, 2.0); (391943.5,
3748329.0, 29.0, 29.0, 2.0);
(391942.1, 3748346.0, 29.0, 29.0, 2.0); (391935.3,
3748361.9, 29.0, 29.0, 2.0);
(391897.0, 3748404.4, 29.0, 29.0, 2.0); (391938.9,
3748376.1, 29.0, 29.0, 2.0);
(391932.5, 3748387.6, 29.0, 29.0, 2.0); (391891.7,
3748427.3, 29.0, 29.0, 2.0);
(391929.1, 3748405.4, 29.0, 29.0, 2.0); (391929.4,
3748424.2, 29.0, 29.0, 2.0);
(391929.7, 3748439.2, 29.0, 29.0, 2.0); (391928.7,
3748454.6, 29.0, 29.0, 2.0);
(391897.0, 3748453.1, 29.0, 29.0, 2.0); (391866.1,
3747496.0, 29.0, 29.0, 2.0);
(391854.5, 3747480.5, 29.0, 29.0, 2.0); (391855.5,
3747526.9, 29.0, 29.0, 2.0);
(391854.2, 3747514.0, 29.0, 29.0, 2.0); (391855.2,
3747538.9, 29.0, 29.0, 2.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391855.5, 3747549.8, 29.0, 29.0, 2.0); (392423.8,
3747240.4, 29.0, 29.0, 2.0);
(391889.9, 3747651.9, 29.0, 29.0, 2.0); (391854.0,
3747577.0, 29.0, 29.0, 2.0);
(391854.2, 3747603.1, 29.0, 29.0, 2.0); (391855.0,
3747615.6, 29.0, 29.0, 2.0);
(391855.6, 3747626.4, 29.0, 29.0, 2.0); (391854.1,
3747455.5, 29.0, 29.0, 2.0);
(391853.4, 3747443.5, 29.0, 29.0, 2.0); (391888.7,
3747380.1, 29.0, 29.0, 2.0);
(391853.6, 3747430.3, 29.0, 29.0, 2.0); (391842.3,
3747485.1, 29.0, 29.0, 2.0);
(391705.1, 3747221.2, 29.0, 29.0, 2.0); (391890.3,
3747198.7, 29.0, 29.0, 2.0);
(391791.8, 3747248.3, 29.0, 29.0,
2.0);

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***

(1=YES; 0=NO)

```
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file:
KLGB_V9_ADJU\KLGB_v9.SFC Met
Version: 16216
Profile file:
KLGB_V9_ADJU\KLGB_v9.PFL
Surface format:
FREE

Profile format:
FREE

Surface station no.: 23129 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	-5.3	0.094	-9.000	-9.000	-999.	70.	14.3	0.10	2.68	1.00	1.13	322.	7.9	282.0	2.0
12	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	2.68	1.00	0.00	0.	7.9	281.4	2.0
12	01	01	1	03	-2.5	0.068	-9.000	-9.000	-999.	43.	11.4	0.10	2.68	1.00	0.74	79.	7.9	280.9	2.0
12	01	01	1	04	-3.2	0.075	-9.000	-9.000	-999.	49.	11.7	0.10	2.68	1.00	0.86				

```
137.    7.9  280.9    2.0
12 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.10   2.68   1.00    0.00
0.    7.9  280.4    2.0
12 01 01   1 06   -5.2  0.093 -9.000 -9.000 -999.   68.     14.0  0.10   2.68   1.00    1.11
92.    7.9  279.9    2.0
12 01 01   1 07   -2.3  0.066 -9.000 -9.000 -999.   41.     11.5  0.10   2.68   1.00    0.69
67.    7.9  278.8    2.0
12 01 01   1 08   -1.7  0.060 -9.000 -9.000 -999.   36.     11.4  0.10   2.68   0.54    0.65
91.    7.9  279.9    2.0
12 01 01   1 09   36.2 -9.000 -9.000 -9.000   37. -999. -99999.0  0.10   2.68   0.31    0.00
0.    7.9  283.8    2.0
12 01 01   1 10  108.4  0.139  0.707  0.009  119.  124.     -2.3  0.10   2.68   0.24    0.92
319.    7.9  287.5    2.0
12 01 01   1 11  160.5  0.114  1.137  0.005  334.   93.     -1.0  0.10   2.68   0.21    0.62
23.    7.9  292.5    2.0
12 01 01   1 12  186.7  0.125  1.473  0.005  623.  105.     -1.0  0.10   2.68   0.20    0.69
18.    7.9  295.4    2.0
12 01 01   1 13  186.8  0.130  1.761  0.005 1065.  112.     -1.1  0.10   2.68   0.20    0.74
250.    7.9  297.5    2.0
12 01 01   1 14  161.7  0.150  1.834  0.005 1387.  139.     -1.9  0.10   2.68   0.21    0.96
347.    7.9  300.4    2.0
12 01 01   1 15  105.5  0.243  1.633  0.005 1499.  288.    -12.4  0.10   2.68   0.24    2.11
194.    7.9  295.9    2.0
12 01 01   1 16   32.4  0.211  1.109  0.005 1530.  233.    -26.3  0.10   2.68   0.33    1.98
186.    7.9  295.4    2.0
12 01 01   1 17  -20.5  0.250 -9.000 -9.000 -999.  300.     69.2  0.10   2.68   0.60    2.81
293.    7.9  291.4    2.0
12 01 01   1 18  -25.4  0.257 -9.000 -9.000 -999.  313.     72.8  0.10   2.68   1.00    2.90
301.    7.9  288.1    2.0
12 01 01   1 19  -21.0  0.211 -9.000 -9.000 -999.  233.     49.0  0.10   2.68   1.00    2.40
313.    7.9  286.4    2.0
12 01 01   1 20  -25.7  0.258 -9.000 -9.000 -999.  315.     73.3  0.10   2.68   1.00    2.91
302.    7.9  286.4    2.0
12 01 01   1 21  -22.5  0.225 -9.000 -9.000 -999.  256.     55.7  0.10   2.68   1.00    2.55
306.    7.9  285.4    2.0
12 01 01   1 22   -9.3  0.126 -9.000 -9.000 -999.  111.     19.5  0.10   2.68   1.00    1.48
284.    7.9  285.9    2.0
12 01 01   1 23  -21.4  0.214 -9.000 -9.000 -999.  237.     50.3  0.10   2.68   1.00    2.43
282.    7.9  285.4    2.0
12 01 01   1 24  -30.1  0.300 -9.000 -9.000 -999.  394.     98.9  0.10   2.68   1.00    3.36
300.    7.9  284.2    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  322.    1.13   282.1   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***       10:55:00

                      PAGE   9
 *** 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 NOX IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391891.24	3747480.41	10.23973	(13041207)	391892.01	3747456.00	10.90683	(13041207)
391965.04	3747447.61	12.14821	(13041207)	391925.38	3747447.61	11.96868	(13041207)
392089.38	3747454.66	12.35848	(13041207)	392112.83	3747454.85	11.92629	(13041207)
392033.31	3747443.03	10.83234	(13041207)	392142.39	3747442.46	9.82736	(13041207)
392336.71	3747437.69	6.90025	(12122516)	392429.96	3747448.18	3.98490	(12122516)
392412.42	3747555.73	3.21217	(15011116)	392343.77	3747480.03	7.84753	(12122516)
392217.30	3747461.24	11.24812	(12071106)	392161.48	3747408.94	5.14142	(12071106)
391879.25	3747513.22	7.85038	(13041207)	391891.65	3747546.98	8.43518	(13110408)
391891.84	3747573.68	8.90416	(13110408)	391884.40	3747601.90	6.33338	(13110408)
391891.08	3747641.76	6.03021	(16021717)	391889.35	3747663.46	5.13409	(12112916)
391883.45	3747699.92	3.84296	(12112916)	391881.92	3747730.82	3.08008	(12112916)
391884.40	3747754.47	2.65811	(12112916)	391885.36	3747780.40	2.29685	(12112916)
391883.83	3747768.01	2.46051	(12112916)	391493.56	3748488.26	0.41532	(14091424)
391947.12	3747875.71	2.02998	(12020617)	391983.08	3747875.94	2.28681	(12020617)
391885.46	3747791.74	2.17564	(15091424)	391889.32	3747804.03	2.08074	(14091424)
391887.50	3747815.86	1.99082	(14091424)	391874.76	3747826.10	1.88912	(12082022)
391892.74	3747852.04	1.77517	(15072023)	391892.51	3747880.49	1.63132	(15091120)
392032.89	3747873.67	2.44303	(12020617)	392140.29	3747873.36	2.37458	(12020617)
392233.52	3747864.86	2.30711	(14041207)	392523.19	3747518.42	1.83496	(14091722)
392655.00	3747574.84	1.18876	(13092022)	392733.47	3747870.77	0.79696	(16092618)
391927.56	3747940.84	1.46902	(12020617)	391927.83	3747987.42	1.29339	(12020617)
391940.95	3748045.52	1.18957	(12020617)	391926.76	3748083.27	1.02570	(12020617)
391928.37	3748118.62	0.95888	(12020617)	391927.56	3748149.14	0.89867	(12020617)
391892.49	3747904.69	1.52600	(15091120)	391891.96	3747917.81	1.47136	(15091120)
391891.15	3747931.74	1.41563	(15091120)	391885.26	3747942.98	1.36753	(15091120)
391893.29	3747955.03	1.33010	(15091120)	391893.83	3747978.59	1.25062	(15091003)
391893.03	3747994.39	1.20258	(15091003)	391885.80	3748035.62	1.08574	(15091003)
391893.83	3748088.36	0.96625	(14080322)	391894.63	3748143.78	0.86641	(14080322)

391894.10 3748120.49 0.90682 (14080322) 391894.63
3748155.30 0.84706 (14080322)
391891.15 3748182.87 0.80227 (15081805) 391893.03
3748195.99 0.78364 (15081805)
391927.30 3748191.71 0.82718 (12020617) 391928.64
3748236.15 0.76593 (12020617)
391928.64 3748259.98 0.73400 (12020617) 391894.37
3748207.50 0.76742 (15081805)
391891.15 3748220.09 0.74937 (15081805) 391891.15
3748231.06 0.73457 (15081805)
391891.15 3748243.38 0.71835 (15081805) 391891.15
3748255.70 0.70302 (15081802)
391895.17 3748287.02 0.66828 (15081802) 391895.44
3748311.12 0.64214 (15081802)
391886.07 3748326.91 0.62490 (15081802) 391893.83
3748337.09 0.61532 (15081802)
391896.46 3748353.98 0.59959 (13052920) 391943.47
3748329.02 0.67834 (12020617)
391942.12 3748346.05 0.65638 (12020617) 391935.35
3748361.91 0.62825 (12020617)
391897.02 3748404.40 0.55628 (13052920) 391938.93
3748376.12 0.61892 (12020617)
391932.47 3748387.64 0.59772 (12020617) 391891.74
3748427.33 0.53749 (13052920)

*** 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 NOX IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391929.07	3748405.45	0.57583	(12020617)	391929.40	3748424.21	0.55938	(12020617)
391929.73	3748439.17	0.54679	(12020617)	391928.74	3748454.63	0.53254	(12020617)
391897.00	3748453.15	0.51905	(15073104)	391866.08	3747495.99	6.84359	(13041207)
391854.46	3747480.49	6.17512	(13041207)	391855.46	3747526.86	6.25275	(13110408)
391854.21	3747513.99	6.04108	(13110408)	391855.21	3747538.86	6.37553	(13110408)
391855.46	3747549.85	6.50556	(13110408)	392423.79	3747240.43	1.52760	(15090824)
391889.87	3747651.95	5.53094	(16021717)	391853.95	3747577.01	6.09095	(13110408)

391854.20 3747603.13 4.83874 (13110408) 391854.95
3747615.63 4.78624 (16112016)
391855.57 3747626.38 4.75108 (16112016) 391854.14
3747455.54 6.79613 (13041207)
391853.42 3747443.48 6.92127 (13041207) 391888.71
3747380.11 5.76773 (13041207)
391853.60 3747430.34 6.94206 (13041207) 391842.26
3747485.07 5.02468 (13041207)
391705.13 3747221.17 2.03385 (13041207) 391890.27
3747198.72 1.54002 (15071920)
391791.77 3747248.29 2.41274
(13041207)

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF NOX IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	1ST HIGH	VALUE IS 12.35848	ON 13041207: AT (392089.38, 3747454.66, 29.00, 29.00, 2.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** 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 1017 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 747 Calm Hours Identified

A Total of 270 Missing Hours Identified (0.62 Percent)

******** FATAL ERROR MESSAGES ********

*** NONE ***

******** WARNING MESSAGES ********

ME W186 128 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used 0.50

ME W187 128 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

****

*** AERMOD Finishes Successfully ***

****

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**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/7/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt4 PM10\14715 Ops
Alt4 PM10.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID PM_10
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt4 PM10.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
```

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   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.000117178     5.000    10.435     1.400
   SRCPARAM VOL2         0.000117178     5.000    10.435     1.400
   SRCPARAM VOL3         0.000117178     5.000    10.435     1.400
   SRCPARAM VOL4         0.000117178     5.000    10.435     1.400
   SRCPARAM VOL5         0.000117178     5.000    10.435     1.400
   SRCPARAM VOL6         0.000117178     5.000    10.435     1.400
   SRCPARAM VOL7         0.000117178     5.000    10.435     1.400
   SRCPARAM VOL8         0.000117178     5.000    10.435     1.400
   SRCPARAM VOL9         0.000117178     5.000    10.435     1.400
   SRCPARAM VOL10        0.000117178     5.000    10.435     1.400
   SRCPARAM VOL11        0.000117178     5.000    10.435     1.400
   SRCPARAM VOL12        0.000117178     5.000    10.435     1.400
   SRCPARAM VOL13        0.000117178     5.000    10.435     1.400
   SRCPARAM VOL14        0.000117178     5.000    10.435     1.400
   SRCPARAM VOL15        0.000117178     5.000    10.435     1.400
   SRCPARAM VOL16        0.000117178     5.000    10.435     1.400
   SRCPARAM VOL17        0.000117178     5.000    10.435     1.400
   SRCPARAM VOL18        0.000117178     5.000    10.435     1.400
   SRCPARAM VOL19        0.000117178     5.000    10.435     1.400
   SRCPARAM VOL20        0.000117178     5.000    10.435     1.400
   SRCPARAM VOL21        0.000117178     5.000    10.435     1.400
   SRCPARAM VOL22        0.000117178     5.000    10.435     1.400
   SRCPARAM VOL23        0.000117178     5.000    10.435     1.400
   SRCPARAM VOL24        0.000117178     5.000    10.435     1.400
   SRCPARAM VOL25        0.000117178     5.000    10.435     1.400
   SRCPARAM VOL26        0.000117178     5.000    10.435     1.400
   SRCPARAM VOL27        0.000117178     5.000    10.435     1.400
   SRCPARAM VOL28        0.000117178     5.000    10.435     1.400
   SRCPARAM VOL29        0.000117178     5.000    10.435     1.400
   SRCPARAM VOL30        0.000117178     5.000    10.435     1.400
   SRCPARAM VOL31        0.000117178     5.000    10.435     1.400
   SRCPARAM VOL32        0.000117178     5.000    10.435     1.400
   SRCPARAM VOL33        0.000117178     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Alt4 PM10.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
```

```
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "14715 OPS ALT4 PM10.AD\24H1GALL.PLT" 31
   SUMMFILE "14715 Ops Alt4 PM10.sum"
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/7/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt4 PM10\14715 Ops
Alt4 PM10.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID PM_10
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt4 PM10.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
```

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   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.000117178     5.000    10.435     1.400
   SRCPARAM VOL2         0.000117178     5.000    10.435     1.400
   SRCPARAM VOL3         0.000117178     5.000    10.435     1.400
   SRCPARAM VOL4         0.000117178     5.000    10.435     1.400
   SRCPARAM VOL5         0.000117178     5.000    10.435     1.400
   SRCPARAM VOL6         0.000117178     5.000    10.435     1.400
   SRCPARAM VOL7         0.000117178     5.000    10.435     1.400
   SRCPARAM VOL8         0.000117178     5.000    10.435     1.400
   SRCPARAM VOL9         0.000117178     5.000    10.435     1.400
   SRCPARAM VOL10        0.000117178     5.000    10.435     1.400
   SRCPARAM VOL11        0.000117178     5.000    10.435     1.400
   SRCPARAM VOL12        0.000117178     5.000    10.435     1.400
   SRCPARAM VOL13        0.000117178     5.000    10.435     1.400
   SRCPARAM VOL14        0.000117178     5.000    10.435     1.400
   SRCPARAM VOL15        0.000117178     5.000    10.435     1.400
   SRCPARAM VOL16        0.000117178     5.000    10.435     1.400
   SRCPARAM VOL17        0.000117178     5.000    10.435     1.400
   SRCPARAM VOL18        0.000117178     5.000    10.435     1.400
   SRCPARAM VOL19        0.000117178     5.000    10.435     1.400
   SRCPARAM VOL20        0.000117178     5.000    10.435     1.400
   SRCPARAM VOL21        0.000117178     5.000    10.435     1.400
   SRCPARAM VOL22        0.000117178     5.000    10.435     1.400
   SRCPARAM VOL23        0.000117178     5.000    10.435     1.400
   SRCPARAM VOL24        0.000117178     5.000    10.435     1.400
   SRCPARAM VOL25        0.000117178     5.000    10.435     1.400
   SRCPARAM VOL26        0.000117178     5.000    10.435     1.400
   SRCPARAM VOL27        0.000117178     5.000    10.435     1.400
   SRCPARAM VOL28        0.000117178     5.000    10.435     1.400
   SRCPARAM VOL29        0.000117178     5.000    10.435     1.400
   SRCPARAM VOL30        0.000117178     5.000    10.435     1.400
   SRCPARAM VOL31        0.000117178     5.000    10.435     1.400
   SRCPARAM VOL32        0.000117178     5.000    10.435     1.400
   SRCPARAM VOL33        0.000117178     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Alt4 PM10.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
```

```
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "14715 OPS ALT4 PM10.AD\24H1GALL.PLT" 31
   SUMMFILE "14715 Ops Alt4 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     128       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     128       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 *********************************
 *** SETUP Finishes Successfully ***
 *********************************

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       10:58:37

                      PAGE   1
 *** 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    33 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   9818605.0 ;  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:     33 Source(s);       1 Source Group(s); and     105 Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:     33 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) =    10.00 ;  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:   14715 Ops Alt4
 PM10.err
 **File for Summary of Results:   14715 Ops Alt4
 PM10.sum
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       10:58:37

                      PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.
              URBAN  EMISSION RATE
  SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ
  SOURCE  SCALAR VARY
    ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

- - - - - - - - - - - - -

VOL1	0	0.11718E-03	391943.2	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL2	0	0.11718E-03	391988.3	3747611.1	29.0	5.00	10.44	1.40
YES								
VOL3	0	0.11718E-03	392033.2	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL4	0	0.11718E-03	392078.1	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL5	0	0.11718E-03	392122.7	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL6	0	0.11718E-03	392167.6	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL7	0	0.11718E-03	392175.8	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL8	0	0.11718E-03	392175.0	3747565.7	29.0	5.00	10.44	1.40
YES								
VOL9	0	0.11718E-03	392129.7	3747566.0	29.0	5.00	10.44	1.40
YES								
VOL10	0	0.11718E-03	392084.7	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL11	0	0.11718E-03	392040.2	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL12	0	0.11718E-03	391995.7	3747566.3	29.0	5.00	10.44	1.40
YES								
VOL13	0	0.11718E-03	391951.4	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL14	0	0.11718E-03	391942.7	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL15	0	0.11718E-03	391942.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL16	0	0.11718E-03	391987.4	3747522.1	29.0	5.00	10.44	1.40
YES								
VOL17	0	0.11718E-03	392031.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL18	0	0.11718E-03	392076.4	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL19	0	0.11718E-03	392121.3	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL20	0	0.11718E-03	392165.8	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL21	0	0.11718E-03	392210.9	3747521.2	29.0	5.00	10.44	1.40
YES								
VOL22	0	0.11718E-03	392219.6	3747557.0	29.0	5.00	10.44	1.40
YES								
VOL23	0	0.11718E-03	392237.2	3747556.6	29.0	5.00	10.44	1.40
YES								
VOL24	0	0.11718E-03	392256.9	3747546.6	29.0	5.00	10.44	1.40
YES								
VOL25	0	0.11718E-03	392256.5	3747502.1	29.0	5.00	10.44	1.40
YES								
VOL26	0	0.11718E-03	392256.3	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL27	0	0.11718E-03	392211.2	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL28	0	0.11718E-03	392167.1	3747484.7	29.0	5.00	10.44	1.40
YES								
VOL29	0	0.11718E-03	392122.1	3747484.9	29.0	5.00	10.44	1.40
YES								
VOL30	0	0.11718E-03	392076.7	3747485.0	29.0	5.00	10.44	1.40
YES								
VOL31	0	0.11718E-03	392032.1	3747485.2	29.0	5.00	10.44	1.40
YES								
VOL32	0	0.11718E-03	391987.1	3747485.9	29.0	5.00	10.44	1.40
YES								

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
9818605.	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 ,

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391891.2, 3747480.4, 29.0, 29.0, 2.0); (391892.0, 3747456.0, 29.0, 29.0, 2.0);
(391965.0, 3747447.6, 29.0, 29.0, 2.0); (391925.4, 3747447.6, 29.0, 29.0, 2.0);
(392089.4, 3747454.7, 29.0, 29.0, 2.0); (392112.8, 3747454.8, 29.0, 29.0, 2.0);
(392033.3, 3747443.0, 29.0, 29.0, 2.0); (392142.4, 3747442.5, 29.0, 29.0, 2.0);
(392336.7, 3747437.7, 29.0, 29.0, 2.0); (392430.0, 3747448.2, 29.0, 29.0, 2.0);
(392412.4, 3747555.7, 29.0, 29.0, 2.0); (392343.8, 3747480.0, 29.0, 29.0, 2.0);
(392217.3, 3747461.2, 29.0, 29.0, 2.0); (392161.5, 3747408.9, 29.0, 29.0, 2.0);
(391879.2, 3747513.2, 29.0, 29.0, 2.0); (391891.6, 3747547.0, 29.0, 29.0, 2.0);
(391891.8, 3747573.7, 29.0, 29.0, 2.0); (391884.4, 3747601.9, 29.0, 29.0, 2.0);
(391891.1, 3747641.8, 29.0, 29.0, 2.0); (391889.3, 3747663.5, 29.0, 29.0, 2.0);
(391883.5, 3747699.9, 29.0, 29.0, 2.0); (391881.9, 3747730.8, 29.0, 29.0, 2.0);
(391884.4, 3747754.5, 29.0, 29.0, 2.0); (391885.4, 3747780.4, 29.0, 29.0, 2.0);
(391883.8, 3747768.0, 29.0, 29.0, 2.0); (391493.6, 3748488.3, 29.0, 29.0, 2.0);
(391947.1, 3747875.7, 29.0, 29.0, 2.0); (391983.1, 3747875.9, 29.0, 29.0, 2.0);
(391885.5, 3747791.7, 29.0, 29.0, 2.0); (391889.3, 3747804.0, 29.0, 29.0, 2.0);
(391887.5, 3747815.9, 29.0, 29.0, 2.0); (391874.8, 3747826.1, 29.0, 29.0, 2.0);
(391892.7, 3747852.0, 29.0, 29.0, 2.0); (391892.5, 3747880.5, 29.0, 29.0, 2.0);
(392032.9, 3747873.7, 29.0, 29.0, 2.0); (392140.3, 3747873.4, 29.0, 29.0, 2.0);
(392233.5, 3747864.9, 29.0, 29.0, 2.0); (392523.2, 3747518.4, 28.3, 28.3, 2.0);
(392655.0, 3747574.8, 28.0, 28.0, 2.0); (392733.5, 3747870.8, 27.6, 27.6, 2.0);
(391927.6, 3747940.8, 29.0, 29.0, 2.0); (391927.8, 3747987.4, 29.0, 29.0, 2.0);
(391941.0, 3748045.5, 29.0, 29.0, 2.0); (391926.8, 3748083.3, 29.0, 29.0, 2.0);
(391928.4, 3748118.6, 29.0, 29.0, 2.0); (391927.6, 3748149.1, 29.0, 29.0, 2.0);
(391892.5, 3747904.7, 29.0, 29.0, 2.0); (391892.0, 3747917.8, 29.0, 29.0, 2.0);
(391891.1, 3747931.7, 29.0, 29.0, 2.0); (391885.3, 3747943.0, 29.0, 29.0, 2.0);
(391893.3, 3747955.0, 29.0, 29.0, 2.0); (391893.8, 3747978.6, 29.0, 29.0, 2.0);
(391893.0, 3747994.4, 29.0, 29.0, 2.0); (391885.8, 3748035.6, 29.0, 29.0, 2.0);
(391893.8, 3748088.4, 29.0, 29.0, 2.0); (391894.6, 3748143.8, 29.0, 29.0, 2.0);
(391894.1, 3748120.5, 29.0, 29.0, 2.0); (391894.6, 3748155.3, 29.0, 29.0, 2.0);
(391891.1, 3748182.9, 29.0, 29.0, 2.0); (391893.0, 3748196.0, 29.0, 29.0, 2.0);
(391927.3, 3748191.7, 29.0, 29.0, 2.0); (391928.6,

3748236.1, 29.0, 29.0, 2.0);
(391928.6, 3748260.0, 29.0, 29.0, 2.0); (391894.4,
3748207.5, 29.0, 29.0, 2.0);
(391891.1, 3748220.1, 29.0, 29.0, 2.0); (391891.1,
3748231.1, 29.0, 29.0, 2.0);
(391891.1, 3748243.4, 29.0, 29.0, 2.0); (391891.1,
3748255.7, 29.0, 29.0, 2.0);
(391895.2, 3748287.0, 29.0, 29.0, 2.0); (391895.4,
3748311.1, 29.0, 29.0, 2.0);
(391886.1, 3748326.9, 29.0, 29.0, 2.0); (391893.8,
3748337.1, 29.0, 29.0, 2.0);
(391896.5, 3748354.0, 29.0, 29.0, 2.0); (391943.5,
3748329.0, 29.0, 29.0, 2.0);
(391942.1, 3748346.0, 29.0, 29.0, 2.0); (391935.3,
3748361.9, 29.0, 29.0, 2.0);
(391897.0, 3748404.4, 29.0, 29.0, 2.0); (391938.9,
3748376.1, 29.0, 29.0, 2.0);
(391932.5, 3748387.6, 29.0, 29.0, 2.0); (391891.7,
3748427.3, 29.0, 29.0, 2.0);
(391929.1, 3748405.4, 29.0, 29.0, 2.0); (391929.4,
3748424.2, 29.0, 29.0, 2.0);
(391929.7, 3748439.2, 29.0, 29.0, 2.0); (391928.7,
3748454.6, 29.0, 29.0, 2.0);
(391897.0, 3748453.1, 29.0, 29.0, 2.0); (391866.1,
3747496.0, 29.0, 29.0, 2.0);
(391854.5, 3747480.5, 29.0, 29.0, 2.0); (391855.5,
3747526.9, 29.0, 29.0, 2.0);
(391854.2, 3747514.0, 29.0, 29.0, 2.0); (391855.2,
3747538.9, 29.0, 29.0, 2.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391855.5, 3747549.8, 29.0, 29.0, 2.0); (392423.8,
3747240.4, 29.0, 29.0, 2.0);
(391889.9, 3747651.9, 29.0, 29.0, 2.0); (391854.0,
3747577.0, 29.0, 29.0, 2.0);
(391854.2, 3747603.1, 29.0, 29.0, 2.0); (391855.0,
3747615.6, 29.0, 29.0, 2.0);
(391855.6, 3747626.4, 29.0, 29.0, 2.0); (391854.1,
3747455.5, 29.0, 29.0, 2.0);
(391853.4, 3747443.5, 29.0, 29.0, 2.0); (391888.7,
3747380.1, 29.0, 29.0, 2.0);
(391853.6, 3747430.3, 29.0, 29.0, 2.0); (391842.3,
3747485.1, 29.0, 29.0, 2.0);
(391705.1, 3747221.2, 29.0, 29.0, 2.0); (391890.3,
3747198.7, 29.0, 29.0, 2.0);
(391791.8, 3747248.3, 29.0, 29.0,
2.0);

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***

(1=YES; 0=NO)

```
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file:
KLGB_V9_ADJU\KLGB_v9.SFC Met
Version: 16216
Profile file:
KLGB_V9_ADJU\KLGB_v9.PFL
Surface format:
FREE

Profile format:
FREE

Surface station no.: 23129 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	-5.3	0.094	-9.000	-9.000	-999.	70.	14.3	0.10	2.68	1.00	1.13	322.	7.9	282.0	2.0
12	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	2.68	1.00	0.00	0.	7.9	281.4	2.0
12	01	01	1	03	-2.5	0.068	-9.000	-9.000	-999.	43.	11.4	0.10	2.68	1.00	0.74	79.	7.9	280.9	2.0
12	01	01	1	04	-3.2	0.075	-9.000	-9.000	-999.	49.	11.7	0.10	2.68	1.00	0.86				

```
137.    7.9  280.9    2.0
12 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.10   2.68   1.00    0.00
0.    7.9  280.4    2.0
12 01 01   1 06   -5.2  0.093 -9.000 -9.000 -999.   68.     14.0  0.10   2.68   1.00    1.11
92.    7.9  279.9    2.0
12 01 01   1 07   -2.3  0.066 -9.000 -9.000 -999.   41.     11.5  0.10   2.68   1.00    0.69
67.    7.9  278.8    2.0
12 01 01   1 08   -1.7  0.060 -9.000 -9.000 -999.   36.     11.4  0.10   2.68   0.54    0.65
91.    7.9  279.9    2.0
12 01 01   1 09   36.2 -9.000 -9.000 -9.000   37. -999. -99999.0  0.10   2.68   0.31    0.00
0.    7.9  283.8    2.0
12 01 01   1 10  108.4  0.139  0.707  0.009  119.  124.     -2.3  0.10   2.68   0.24    0.92
319.    7.9  287.5    2.0
12 01 01   1 11  160.5  0.114  1.137  0.005  334.   93.     -1.0  0.10   2.68   0.21    0.62
23.    7.9  292.5    2.0
12 01 01   1 12  186.7  0.125  1.473  0.005  623.  105.     -1.0  0.10   2.68   0.20    0.69
18.    7.9  295.4    2.0
12 01 01   1 13  186.8  0.130  1.761  0.005 1065.  112.     -1.1  0.10   2.68   0.20    0.74
250.    7.9  297.5    2.0
12 01 01   1 14  161.7  0.150  1.834  0.005 1387.  139.     -1.9  0.10   2.68   0.21    0.96
347.    7.9  300.4    2.0
12 01 01   1 15  105.5  0.243  1.633  0.005 1499.  288.    -12.4  0.10   2.68   0.24    2.11
194.    7.9  295.9    2.0
12 01 01   1 16   32.4  0.211  1.109  0.005 1530.  233.    -26.3  0.10   2.68   0.33    1.98
186.    7.9  295.4    2.0
12 01 01   1 17  -20.5  0.250 -9.000 -9.000 -999.  300.     69.2  0.10   2.68   0.60    2.81
293.    7.9  291.4    2.0
12 01 01   1 18  -25.4  0.257 -9.000 -9.000 -999.  313.     72.8  0.10   2.68   1.00    2.90
301.    7.9  288.1    2.0
12 01 01   1 19  -21.0  0.211 -9.000 -9.000 -999.  233.     49.0  0.10   2.68   1.00    2.40
313.    7.9  286.4    2.0
12 01 01   1 20  -25.7  0.258 -9.000 -9.000 -999.  315.     73.3  0.10   2.68   1.00    2.91
302.    7.9  286.4    2.0
12 01 01   1 21  -22.5  0.225 -9.000 -9.000 -999.  256.     55.7  0.10   2.68   1.00    2.55
306.    7.9  285.4    2.0
12 01 01   1 22   -9.3  0.126 -9.000 -9.000 -999.  111.     19.5  0.10   2.68   1.00    1.48
284.    7.9  285.9    2.0
12 01 01   1 23  -21.4  0.214 -9.000 -9.000 -999.  237.     50.3  0.10   2.68   1.00    2.43
282.    7.9  285.4    2.0
12 01 01   1 24  -30.1  0.300 -9.000 -9.000 -999.  394.     98.9  0.10   2.68   1.00    3.36
300.    7.9  284.2    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  322.    1.13   282.1   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       10:58:37

                      PAGE   9
 *** 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        , 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_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391891.24	3747480.41	0.22610	(12121624)	391892.01	3747456.00	0.17971	(12121624)
391965.04	3747447.61	0.28200c	(12122924)	391925.38	3747447.61	0.23032c	(12122924)
392089.38	3747454.66	0.39611c	(12122524)	392112.83	3747454.85	0.40186c	(12122524)
392033.31	3747443.03	0.30480c	(12122524)	392142.39	3747442.46	0.32550c	(12122524)
392336.71	3747437.69	0.16664	(13122724)	392429.96	3747448.18	0.08585	(13040124)
392412.42	3747555.73	0.09029	(15040624)	392343.77	3747480.03	0.17044	(16101624)
392217.30	3747461.24	0.44598c	(12122524)	392161.48	3747408.94	0.20618m	(15020724)
391879.25	3747513.22	0.21659	(12121624)	391891.65	3747546.98	0.25691	(14121624)
391891.84	3747573.68	0.25538	(14121624)	391884.40	3747601.90	0.21660	(12112924)
391891.08	3747641.76	0.18900	(12112924)	391889.35	3747663.46	0.15501	(12112924)
391883.45	3747699.92	0.11097	(12112924)	391881.92	3747730.82	0.09296	(13043024)
391884.40	3747754.47	0.08544	(13043024)	391885.36	3747780.40	0.07775	(16061124)
391883.83	3747768.01	0.08060	(13043024)	391493.56	3748488.26	0.01099	(14083124)
391947.12	3747875.71	0.06462	(16061124)	391983.08	3747875.94	0.06493	(16061124)
391885.46	3747791.74	0.07500	(16061124)	391889.32	3747804.03	0.07341	(16061124)
391887.50	3747815.86	0.07010	(16061124)	391874.76	3747826.10	0.06426	(16061124)
391892.74	3747852.04	0.06372	(16061124)	391892.51	3747880.49	0.05832	(16061124)
392032.89	3747873.67	0.06505	(12041924)	392140.29	3747873.36	0.06457	(16051624)
392233.52	3747864.86	0.06109	(14052424)	392523.19	3747518.42	0.05440	(16101624)
392655.00	3747574.84	0.03189	(15040624)	392733.47	3747870.77	0.01652	(12110824)
391927.56	3747940.84	0.05071	(16061124)	391927.83	3747987.42	0.04362	(16061124)
391940.95	3748045.52	0.03620	(16061124)	391926.76	3748083.27	0.03257	(16061124)
391928.37	3748118.62	0.02993	(12041924)	391927.56	3748149.14	0.02801	(12041924)
391892.49	3747904.69	0.05422	(16061124)	391891.96	3747917.81	0.05210	(16061124)
391891.15	3747931.74	0.04995	(16061124)	391885.26	3747942.98	0.04786	(16061124)
391893.29	3747955.03	0.04687	(16061124)	391893.83	3747978.59	0.04384	(16061124)
391893.03	3747994.39	0.04189	(16061124)	391885.80	3748035.62	0.03717	(16061124)
391893.83	3748088.36	0.03236	(16061124)	391894.63	3748143.78	0.02793	(16061124)

391894.10 3748120.49 0.02970 (16061124) 391894.63
3748155.30 0.02710 (16061124)
391891.15 3748182.87 0.02528 (16061124) 391893.03
3748195.99 0.02452 (12041924)
391927.30 3748191.71 0.02564 (12041924) 391928.64
3748236.15 0.02348 (12041924)
391928.64 3748259.98 0.02241 (12041924) 391894.37
3748207.50 0.02405 (12041924)
391891.15 3748220.09 0.02341 (12041924) 391891.15
3748231.06 0.02295 (12041924)
391891.15 3748243.38 0.02245 (12041924) 391891.15
3748255.70 0.02197 (12041924)
391895.17 3748287.02 0.02087 (12041924) 391895.44
3748311.12 0.02002 (12041924)
391886.07 3748326.91 0.01935 (12041924) 391893.83
3748337.09 0.01913 (12041924)
391896.46 3748353.98 0.01862 (12041924) 391943.47
3748329.02 0.01971 (12041924)
391942.12 3748346.05 0.01909 (12041924) 391935.35
3748361.91 0.01856 (12041924)
391897.02 3748404.40 0.01714 (12041924) 391938.93
3748376.12 0.01809 (12041924)
391932.47 3748387.64 0.01773 (12041924) 391891.74
3748427.33 0.01649 (12041924)

*** 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 , 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_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391929.07	3748405.45	0.01719	(12041924)	391929.40	3748424.21	0.01665	(12041924)
391929.73	3748439.17	0.01623	(12041924)	391928.74	3748454.63	0.01582	(12041924)
391897.00	3748453.15	0.01585	(12041924)	391866.08	3747495.99	0.18558	(12121624)
391854.46	3747480.49	0.15893	(12121624)	391855.46	3747526.86	0.17373	(14121624)
391854.21	3747513.99	0.16905	(12121624)	391855.21	3747538.86	0.17611	(14121624)
391855.46	3747549.85	0.17742	(14121624)	392423.79	3747240.43	0.05622	(16122724)
391889.87	3747651.95	0.17177	(12112924)	391853.95	3747577.01	0.16824	(14121624)

391854.20 3747603.13 0.15202 (12112924) 391854.95
3747615.63 0.14832 (12112924)
391855.57 3747626.38 0.14361 (12112924) 391854.14
3747455.54 0.13682 (12121624)
391853.42 3747443.48 0.12464 (12121624) 391888.71
3747380.11 0.09976c (12122924)
391853.60 3747430.34 0.11288 (12121624) 391842.26
3747485.07 0.14602 (12121624)
391705.13 3747221.17 0.03000c (12122924) 391890.27
3747198.72 0.03857c (12122924)
391791.77 3747248.29 0.03978c
(12122924)

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	0.44598c ON 12122524:	AT (392217.30, 3747461.24, 29.00, 29.00, 2.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** 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 1017 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 747 Calm Hours Identified

A Total of 270 Missing Hours Identified (0.62 Percent)

******** FATAL ERROR MESSAGES ********

*** NONE ***

******** WARNING MESSAGES ********

ME W186 128 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used 0.50

ME W187 128 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

****

*** AERMOD Finishes Successfully ***

****

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**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/7/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt4 PM25\14715 Ops
Alt4 PM25.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID PM_2.5
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt4 PM25.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
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   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0000831586     5.000    10.435     1.400
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   SRCPARAM VOL4         0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL5         0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL6         0.0000831586     5.000    10.435     1.400
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   SRCPARAM VOL8         0.0000831586     5.000    10.435     1.400
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   SRCPARAM VOL10        0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL11        0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL12        0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL13        0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL14        0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL15        0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL16        0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL17        0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL18        0.0000831586     5.000    10.435     1.400
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   SRCPARAM VOL20        0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL21        0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL22        0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL23        0.0000831586     5.000    10.435     1.400
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   SRCPARAM VOL25        0.0000831586     5.000    10.435     1.400
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   SRCPARAM VOL29        0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL30        0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL31        0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL32        0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL33        0.0000831586     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
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**
RE STARTING
   INCLUDED "14715 Ops Alt4 PM25.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
```

```
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "14715 OPS ALT4 PM25.AD\24H1GALL.PLT" 31
   SUMMFILE "14715 Ops Alt4 PM25.sum"
OU FINISHED
**
**************************************
** Project Parameters
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** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
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```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/7/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt4 PM25\14715 Ops
Alt4 PM25.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID PM_2.5
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt4 PM25.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
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   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL2         0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL3         0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL4         0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL5         0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL6         0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL7         0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL8         0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL9         0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL10        0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL11        0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL12        0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL13        0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL14        0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL15        0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL16        0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL17        0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL18        0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL19        0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL20        0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL21        0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL22        0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL23        0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL24        0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL25        0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL26        0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL27        0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL28        0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL29        0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL30        0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL31        0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL32        0.0000831586     5.000    10.435     1.400
   SRCPARAM VOL33        0.0000831586     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Alt4 PM25.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
```

```
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "14715 OPS ALT4 PM25.AD\24H1GALL.PLT" 31
   SUMMFILE "14715 Ops Alt4 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     128       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     128       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 *********************************
 *** SETUP Finishes Successfully ***
 *********************************

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       11:02:19

                      PAGE   1
 *** 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    33 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   9818605.0 ;  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:     33 Source(s);       1 Source Group(s); and     105 Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:     33 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) =    10.00 ;  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:   14715 Ops Alt4
 PM25.err
 **File for Summary of Results:   14715 Ops Alt4
 PM25.sum
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***       11:02:19

                      PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.
              URBAN  EMISSION RATE
  SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ
  SOURCE  SCALAR VARY
    ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

- - - - - - - - - - - - -

VOL1	0	0.83159E-04	391943.2	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL2	0	0.83159E-04	391988.3	3747611.1	29.0	5.00	10.44	1.40
YES								
VOL3	0	0.83159E-04	392033.2	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL4	0	0.83159E-04	392078.1	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL5	0	0.83159E-04	392122.7	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL6	0	0.83159E-04	392167.6	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL7	0	0.83159E-04	392175.8	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL8	0	0.83159E-04	392175.0	3747565.7	29.0	5.00	10.44	1.40
YES								
VOL9	0	0.83159E-04	392129.7	3747566.0	29.0	5.00	10.44	1.40
YES								
VOL10	0	0.83159E-04	392084.7	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL11	0	0.83159E-04	392040.2	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL12	0	0.83159E-04	391995.7	3747566.3	29.0	5.00	10.44	1.40
YES								
VOL13	0	0.83159E-04	391951.4	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL14	0	0.83159E-04	391942.7	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL15	0	0.83159E-04	391942.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL16	0	0.83159E-04	391987.4	3747522.1	29.0	5.00	10.44	1.40
YES								
VOL17	0	0.83159E-04	392031.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL18	0	0.83159E-04	392076.4	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL19	0	0.83159E-04	392121.3	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL20	0	0.83159E-04	392165.8	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL21	0	0.83159E-04	392210.9	3747521.2	29.0	5.00	10.44	1.40
YES								
VOL22	0	0.83159E-04	392219.6	3747557.0	29.0	5.00	10.44	1.40
YES								
VOL23	0	0.83159E-04	392237.2	3747556.6	29.0	5.00	10.44	1.40
YES								
VOL24	0	0.83159E-04	392256.9	3747546.6	29.0	5.00	10.44	1.40
YES								
VOL25	0	0.83159E-04	392256.5	3747502.1	29.0	5.00	10.44	1.40
YES								
VOL26	0	0.83159E-04	392256.3	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL27	0	0.83159E-04	392211.2	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL28	0	0.83159E-04	392167.1	3747484.7	29.0	5.00	10.44	1.40
YES								
VOL29	0	0.83159E-04	392122.1	3747484.9	29.0	5.00	10.44	1.40
YES								
VOL30	0	0.83159E-04	392076.7	3747485.0	29.0	5.00	10.44	1.40
YES								
VOL31	0	0.83159E-04	392032.1	3747485.2	29.0	5.00	10.44	1.40
YES								
VOL32	0	0.83159E-04	391987.1	3747485.9	29.0	5.00	10.44	1.40
YES								

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
9818605.	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 ,

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391891.2, 3747480.4, 29.0, 29.0, 2.0); (391892.0, 3747456.0, 29.0, 29.0, 2.0);
(391965.0, 3747447.6, 29.0, 29.0, 2.0); (391925.4, 3747447.6, 29.0, 29.0, 2.0);
(392089.4, 3747454.7, 29.0, 29.0, 2.0); (392112.8, 3747454.8, 29.0, 29.0, 2.0);
(392033.3, 3747443.0, 29.0, 29.0, 2.0); (392142.4, 3747442.5, 29.0, 29.0, 2.0);
(392336.7, 3747437.7, 29.0, 29.0, 2.0); (392430.0, 3747448.2, 29.0, 29.0, 2.0);
(392412.4, 3747555.7, 29.0, 29.0, 2.0); (392343.8, 3747480.0, 29.0, 29.0, 2.0);
(392217.3, 3747461.2, 29.0, 29.0, 2.0); (392161.5, 3747408.9, 29.0, 29.0, 2.0);
(391879.2, 3747513.2, 29.0, 29.0, 2.0); (391891.6, 3747547.0, 29.0, 29.0, 2.0);
(391891.8, 3747573.7, 29.0, 29.0, 2.0); (391884.4, 3747601.9, 29.0, 29.0, 2.0);
(391891.1, 3747641.8, 29.0, 29.0, 2.0); (391889.3, 3747663.5, 29.0, 29.0, 2.0);
(391883.5, 3747699.9, 29.0, 29.0, 2.0); (391881.9, 3747730.8, 29.0, 29.0, 2.0);
(391884.4, 3747754.5, 29.0, 29.0, 2.0); (391885.4, 3747780.4, 29.0, 29.0, 2.0);
(391883.8, 3747768.0, 29.0, 29.0, 2.0); (391493.6, 3748488.3, 29.0, 29.0, 2.0);
(391947.1, 3747875.7, 29.0, 29.0, 2.0); (391983.1, 3747875.9, 29.0, 29.0, 2.0);
(391885.5, 3747791.7, 29.0, 29.0, 2.0); (391889.3, 3747804.0, 29.0, 29.0, 2.0);
(391887.5, 3747815.9, 29.0, 29.0, 2.0); (391874.8, 3747826.1, 29.0, 29.0, 2.0);
(391892.7, 3747852.0, 29.0, 29.0, 2.0); (391892.5, 3747880.5, 29.0, 29.0, 2.0);
(392032.9, 3747873.7, 29.0, 29.0, 2.0); (392140.3, 3747873.4, 29.0, 29.0, 2.0);
(392233.5, 3747864.9, 29.0, 29.0, 2.0); (392523.2, 3747518.4, 28.3, 28.3, 2.0);
(392655.0, 3747574.8, 28.0, 28.0, 2.0); (392733.5, 3747870.8, 27.6, 27.6, 2.0);
(391927.6, 3747940.8, 29.0, 29.0, 2.0); (391927.8, 3747987.4, 29.0, 29.0, 2.0);
(391941.0, 3748045.5, 29.0, 29.0, 2.0); (391926.8, 3748083.3, 29.0, 29.0, 2.0);
(391928.4, 3748118.6, 29.0, 29.0, 2.0); (391927.6, 3748149.1, 29.0, 29.0, 2.0);
(391892.5, 3747904.7, 29.0, 29.0, 2.0); (391892.0, 3747917.8, 29.0, 29.0, 2.0);
(391891.1, 3747931.7, 29.0, 29.0, 2.0); (391885.3, 3747943.0, 29.0, 29.0, 2.0);
(391893.3, 3747955.0, 29.0, 29.0, 2.0); (391893.8, 3747978.6, 29.0, 29.0, 2.0);
(391893.0, 3747994.4, 29.0, 29.0, 2.0); (391885.8, 3748035.6, 29.0, 29.0, 2.0);
(391893.8, 3748088.4, 29.0, 29.0, 2.0); (391894.6, 3748143.8, 29.0, 29.0, 2.0);
(391894.1, 3748120.5, 29.0, 29.0, 2.0); (391894.6, 3748155.3, 29.0, 29.0, 2.0);
(391891.1, 3748182.9, 29.0, 29.0, 2.0); (391893.0, 3748196.0, 29.0, 29.0, 2.0);
(391927.3, 3748191.7, 29.0, 29.0, 2.0); (391928.6,

3748236.1, 29.0, 29.0, 2.0);
(391928.6, 3748260.0, 29.0, 29.0, 2.0); (391894.4,
3748207.5, 29.0, 29.0, 2.0);
(391891.1, 3748220.1, 29.0, 29.0, 2.0); (391891.1,
3748231.1, 29.0, 29.0, 2.0);
(391891.1, 3748243.4, 29.0, 29.0, 2.0); (391891.1,
3748255.7, 29.0, 29.0, 2.0);
(391895.2, 3748287.0, 29.0, 29.0, 2.0); (391895.4,
3748311.1, 29.0, 29.0, 2.0);
(391886.1, 3748326.9, 29.0, 29.0, 2.0); (391893.8,
3748337.1, 29.0, 29.0, 2.0);
(391896.5, 3748354.0, 29.0, 29.0, 2.0); (391943.5,
3748329.0, 29.0, 29.0, 2.0);
(391942.1, 3748346.0, 29.0, 29.0, 2.0); (391935.3,
3748361.9, 29.0, 29.0, 2.0);
(391897.0, 3748404.4, 29.0, 29.0, 2.0); (391938.9,
3748376.1, 29.0, 29.0, 2.0);
(391932.5, 3748387.6, 29.0, 29.0, 2.0); (391891.7,
3748427.3, 29.0, 29.0, 2.0);
(391929.1, 3748405.4, 29.0, 29.0, 2.0); (391929.4,
3748424.2, 29.0, 29.0, 2.0);
(391929.7, 3748439.2, 29.0, 29.0, 2.0); (391928.7,
3748454.6, 29.0, 29.0, 2.0);
(391897.0, 3748453.1, 29.0, 29.0, 2.0); (391866.1,
3747496.0, 29.0, 29.0, 2.0);
(391854.5, 3747480.5, 29.0, 29.0, 2.0); (391855.5,
3747526.9, 29.0, 29.0, 2.0);
(391854.2, 3747514.0, 29.0, 29.0, 2.0); (391855.2,
3747538.9, 29.0, 29.0, 2.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391855.5, 3747549.8, 29.0, 29.0, 2.0); (392423.8,
3747240.4, 29.0, 29.0, 2.0);
(391889.9, 3747651.9, 29.0, 29.0, 2.0); (391854.0,
3747577.0, 29.0, 29.0, 2.0);
(391854.2, 3747603.1, 29.0, 29.0, 2.0); (391855.0,
3747615.6, 29.0, 29.0, 2.0);
(391855.6, 3747626.4, 29.0, 29.0, 2.0); (391854.1,
3747455.5, 29.0, 29.0, 2.0);
(391853.4, 3747443.5, 29.0, 29.0, 2.0); (391888.7,
3747380.1, 29.0, 29.0, 2.0);
(391853.6, 3747430.3, 29.0, 29.0, 2.0); (391842.3,
3747485.1, 29.0, 29.0, 2.0);
(391705.1, 3747221.2, 29.0, 29.0, 2.0); (391890.3,
3747198.7, 29.0, 29.0, 2.0);
(391791.8, 3747248.3, 29.0, 29.0,
2.0);

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***

(1=YES; 0=NO)

```
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file:
KLGB_V9_ADJU\KLGB_v9.SFC Met
Version: 16216
Profile file:
KLGB_V9_ADJU\KLGB_v9.PFL
Surface format:
FREE

Profile format:
FREE

Surface station no.: 23129 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	-5.3	0.094	-9.000	-9.000	-999.	70.	14.3	0.10	2.68	1.00	1.13	322.	7.9	282.0	2.0
12	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	2.68	1.00	0.00	0.	7.9	281.4	2.0
12	01	01	1	03	-2.5	0.068	-9.000	-9.000	-999.	43.	11.4	0.10	2.68	1.00	0.74	79.	7.9	280.9	2.0
12	01	01	1	04	-3.2	0.075	-9.000	-9.000	-999.	49.	11.7	0.10	2.68	1.00	0.86				

```
137.    7.9  280.9    2.0
12 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.10   2.68   1.00    0.00
0.    7.9  280.4    2.0
12 01 01   1 06   -5.2  0.093 -9.000 -9.000 -999.   68.     14.0  0.10   2.68   1.00    1.11
92.    7.9  279.9    2.0
12 01 01   1 07   -2.3  0.066 -9.000 -9.000 -999.   41.     11.5  0.10   2.68   1.00    0.69
67.    7.9  278.8    2.0
12 01 01   1 08   -1.7  0.060 -9.000 -9.000 -999.   36.     11.4  0.10   2.68   0.54    0.65
91.    7.9  279.9    2.0
12 01 01   1 09   36.2 -9.000 -9.000 -9.000   37. -999. -99999.0  0.10   2.68   0.31    0.00
0.    7.9  283.8    2.0
12 01 01   1 10  108.4  0.139  0.707  0.009  119.  124.     -2.3  0.10   2.68   0.24    0.92
319.    7.9  287.5    2.0
12 01 01   1 11  160.5  0.114  1.137  0.005  334.   93.     -1.0  0.10   2.68   0.21    0.62
23.    7.9  292.5    2.0
12 01 01   1 12  186.7  0.125  1.473  0.005  623.  105.     -1.0  0.10   2.68   0.20    0.69
18.    7.9  295.4    2.0
12 01 01   1 13  186.8  0.130  1.761  0.005 1065.  112.     -1.1  0.10   2.68   0.20    0.74
250.    7.9  297.5    2.0
12 01 01   1 14  161.7  0.150  1.834  0.005 1387.  139.     -1.9  0.10   2.68   0.21    0.96
347.    7.9  300.4    2.0
12 01 01   1 15  105.5  0.243  1.633  0.005 1499.  288.    -12.4  0.10   2.68   0.24    2.11
194.    7.9  295.9    2.0
12 01 01   1 16   32.4  0.211  1.109  0.005 1530.  233.    -26.3  0.10   2.68   0.33    1.98
186.    7.9  295.4    2.0
12 01 01   1 17  -20.5  0.250 -9.000 -9.000 -999.  300.     69.2  0.10   2.68   0.60    2.81
293.    7.9  291.4    2.0
12 01 01   1 18  -25.4  0.257 -9.000 -9.000 -999.  313.     72.8  0.10   2.68   1.00    2.90
301.    7.9  288.1    2.0
12 01 01   1 19  -21.0  0.211 -9.000 -9.000 -999.  233.     49.0  0.10   2.68   1.00    2.40
313.    7.9  286.4    2.0
12 01 01   1 20  -25.7  0.258 -9.000 -9.000 -999.  315.     73.3  0.10   2.68   1.00    2.91
302.    7.9  286.4    2.0
12 01 01   1 21  -22.5  0.225 -9.000 -9.000 -999.  256.     55.7  0.10   2.68   1.00    2.55
306.    7.9  285.4    2.0
12 01 01   1 22   -9.3  0.126 -9.000 -9.000 -999.  111.     19.5  0.10   2.68   1.00    1.48
284.    7.9  285.9    2.0
12 01 01   1 23  -21.4  0.214 -9.000 -9.000 -999.  237.     50.3  0.10   2.68   1.00    2.43
282.    7.9  285.4    2.0
12 01 01   1 24  -30.1  0.300 -9.000 -9.000 -999.  394.     98.9  0.10   2.68   1.00    3.36
300.    7.9  284.2    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  322.    1.13   282.1   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       11:02:19

                      PAGE   9
 *** 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        , 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_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391891.24	3747480.41	0.16046	(12121624)	391892.01	3747456.00	0.12754	(12121624)
391965.04	3747447.61	0.20013c	(12122924)	391925.38	3747447.61	0.16346c	(12122924)
392089.38	3747454.66	0.28111c	(12122524)	392112.83	3747454.85	0.28519c	(12122524)
392033.31	3747443.03	0.21631c	(12122524)	392142.39	3747442.46	0.23100c	(12122524)
392336.71	3747437.69	0.11826	(13122724)	392429.96	3747448.18	0.06093	(13040124)
392412.42	3747555.73	0.06408	(15040624)	392343.77	3747480.03	0.12095	(16101624)
392217.30	3747461.24	0.31650c	(12122524)	392161.48	3747408.94	0.14632m	(15020724)
391879.25	3747513.22	0.15371	(12121624)	391891.65	3747546.98	0.18232	(14121624)
391891.84	3747573.68	0.18124	(14121624)	391884.40	3747601.90	0.15371	(12112924)
391891.08	3747641.76	0.13413	(12112924)	391889.35	3747663.46	0.11001	(12112924)
391883.45	3747699.92	0.07875	(12112924)	391881.92	3747730.82	0.06597	(13043024)
391884.40	3747754.47	0.06064	(13043024)	391885.36	3747780.40	0.05518	(16061124)
391883.83	3747768.01	0.05720	(13043024)	391493.56	3748488.26	0.00780	(14083124)
391947.12	3747875.71	0.04586	(16061124)	391983.08	3747875.94	0.04608	(16061124)
391885.46	3747791.74	0.05322	(16061124)	391889.32	3747804.03	0.05210	(16061124)
391887.50	3747815.86	0.04975	(16061124)	391874.76	3747826.10	0.04561	(16061124)
391892.74	3747852.04	0.04522	(16061124)	391892.51	3747880.49	0.04139	(16061124)
392032.89	3747873.67	0.04617	(12041924)	392140.29	3747873.36	0.04582	(16051624)
392233.52	3747864.86	0.04335	(14052424)	392523.19	3747518.42	0.03861	(16101624)
392655.00	3747574.84	0.02263	(15040624)	392733.47	3747870.77	0.01172	(12110824)
391927.56	3747940.84	0.03599	(16061124)	391927.83	3747987.42	0.03096	(16061124)
391940.95	3748045.52	0.02569	(16061124)	391926.76	3748083.27	0.02311	(16061124)
391928.37	3748118.62	0.02124	(12041924)	391927.56	3748149.14	0.01988	(12041924)
391892.49	3747904.69	0.03848	(16061124)	391891.96	3747917.81	0.03698	(16061124)
391891.15	3747931.74	0.03545	(16061124)	391885.26	3747942.98	0.03397	(16061124)
391893.29	3747955.03	0.03326	(16061124)	391893.83	3747978.59	0.03111	(16061124)
391893.03	3747994.39	0.02973	(16061124)	391885.80	3748035.62	0.02638	(16061124)
391893.83	3748088.36	0.02296	(16061124)	391894.63	3748143.78	0.01982	(16061124)

391894.10 3748120.49 0.02108 (16061124) 391894.63
3748155.30 0.01923 (16061124)
391891.15 3748182.87 0.01794 (16061124) 391893.03
3748195.99 0.01740 (12041924)
391927.30 3748191.71 0.01819 (12041924) 391928.64
3748236.15 0.01666 (12041924)
391928.64 3748259.98 0.01590 (12041924) 391894.37
3748207.50 0.01707 (12041924)
391891.15 3748220.09 0.01661 (12041924) 391891.15
3748231.06 0.01629 (12041924)
391891.15 3748243.38 0.01594 (12041924) 391891.15
3748255.70 0.01559 (12041924)
391895.17 3748287.02 0.01481 (12041924) 391895.44
3748311.12 0.01421 (12041924)
391886.07 3748326.91 0.01373 (12041924) 391893.83
3748337.09 0.01358 (12041924)
391896.46 3748353.98 0.01322 (12041924) 391943.47
3748329.02 0.01399 (12041924)
391942.12 3748346.05 0.01355 (12041924) 391935.35
3748361.91 0.01317 (12041924)
391897.02 3748404.40 0.01216 (12041924) 391938.93
3748376.12 0.01284 (12041924)
391932.47 3748387.64 0.01258 (12041924) 391891.74
3748427.33 0.01170 (12041924)

*** 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 , 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_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391929.07	3748405.45	0.01220	(12041924)	391929.40	3748424.21	0.01182	(12041924)
391929.73	3748439.17	0.01152	(12041924)	391928.74	3748454.63	0.01123	(12041924)
391897.00	3748453.15	0.01125	(12041924)	391866.08	3747495.99	0.13170	(12121624)
391854.46	3747480.49	0.11279	(12121624)	391855.46	3747526.86	0.12330	(14121624)
391854.21	3747513.99	0.11997	(12121624)	391855.21	3747538.86	0.12498	(14121624)
391855.46	3747549.85	0.12591	(14121624)	392423.79	3747240.43	0.03990	(16122724)
391889.87	3747651.95	0.12190	(12112924)	391853.95	3747577.01	0.11940	(14121624)

391854.20 3747603.13 0.10788 (12112924) 391854.95
3747615.63 0.10526 (12112924)
391855.57 3747626.38 0.10192 (12112924) 391854.14
3747455.54 0.09710 (12121624)
391853.42 3747443.48 0.08845 (12121624) 391888.71
3747380.11 0.07080c (12122924)
391853.60 3747430.34 0.08011 (12121624) 391842.26
3747485.07 0.10363 (12121624)
391705.13 3747221.17 0.02129c (12122924) 391890.27
3747198.72 0.02737c (12122924)
391791.77 3747248.29 0.02823c
(12122924)

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	0.31650c ON 12122524:	AT (392217.30, 3747461.24, 29.00, 29.00, 2.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** 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 1017 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 747 Calm Hours Identified

A Total of 270 Missing Hours Identified (0.62 Percent)

******** FATAL ERROR MESSAGES ********

*** NONE ***

******** WARNING MESSAGES ********

ME W186 128 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used 0.50

ME W187 128 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

****

*** AERMOD Finishes Successfully ***

****

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**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/7/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt5 CO\14715 Ops
Alt5 CO.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 1 8
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID CO
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt5 CO.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
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   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL2         0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL3         0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL4         0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL5         0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL6         0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL7         0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL8         0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL9         0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL10        0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL11        0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL12        0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL13        0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL14        0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL15        0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL16        0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL17        0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL18        0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL19        0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL20        0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL21        0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL22        0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL23        0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL24        0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL25        0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL26        0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL27        0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL28        0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL29        0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL30        0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL31        0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL32        0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL33        0.0056295853     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Alt5 CO.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
```

```
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 8 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14715 OPS ALT5 CO.AD\01H1GALL.PLT" 31
   PLOTFILE 8 ALL 1ST "14715 OPS ALT5 CO.AD\08H1GALL.PLT" 32
   SUMMFILE "14715 Ops Alt5 CO.sum"
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/7/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt5 CO\14715 Ops
Alt5 CO.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 1 8
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID CO
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt5 CO.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
```

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   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL2         0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL3         0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL4         0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL5         0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL6         0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL7         0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL8         0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL9         0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL10        0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL11        0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL12        0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL13        0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL14        0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL15        0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL16        0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL17        0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL18        0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL19        0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL20        0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL21        0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL22        0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL23        0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL24        0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL25        0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL26        0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL27        0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL28        0.0056295853     5.000    10.435     1.400
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   SRCPARAM VOL30        0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL31        0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL32        0.0056295853     5.000    10.435     1.400
   SRCPARAM VOL33        0.0056295853     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Alt5 CO.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
```

```
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 8 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14715 OPS ALT5 CO.AD\01H1GALL.PLT" 31
   PLOTFILE 8 ALL 1ST "14715 OPS ALT5 CO.AD\08H1GALL.PLT" 32
   SUMMFILE "14715 Ops Alt5 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     128       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     128       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 **********************************
 *** SETUP Finishes Successfully ***
 **********************************

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        11:16:48

                      PAGE   1
 *** 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    33 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   9818605.0 ;  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:     33 Source(s);       1 Source Group(s); and     105 Receptor(s)

               with:      0 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:     33 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) =    10.00 ;  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:   14715 Ops Alt5
 CO.err
 **File for Summary of Results:   14715 Ops Alt5
 CO.sum
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       11:16:48

                      PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.
              URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ
   SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
```

(METERS) BY

VOL1	0	0.56296E-02	391943.2	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL2	0	0.56296E-02	391988.3	3747611.1	29.0	5.00	10.44	1.40
YES								
VOL3	0	0.56296E-02	392033.2	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL4	0	0.56296E-02	392078.1	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL5	0	0.56296E-02	392122.7	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL6	0	0.56296E-02	392167.6	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL7	0	0.56296E-02	392175.8	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL8	0	0.56296E-02	392175.0	3747565.7	29.0	5.00	10.44	1.40
YES								
VOL9	0	0.56296E-02	392129.7	3747566.0	29.0	5.00	10.44	1.40
YES								
VOL10	0	0.56296E-02	392084.7	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL11	0	0.56296E-02	392040.2	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL12	0	0.56296E-02	391995.7	3747566.3	29.0	5.00	10.44	1.40
YES								
VOL13	0	0.56296E-02	391951.4	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL14	0	0.56296E-02	391942.7	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL15	0	0.56296E-02	391942.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL16	0	0.56296E-02	391987.4	3747522.1	29.0	5.00	10.44	1.40
YES								
VOL17	0	0.56296E-02	392031.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL18	0	0.56296E-02	392076.4	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL19	0	0.56296E-02	392121.3	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL20	0	0.56296E-02	392165.8	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL21	0	0.56296E-02	392210.9	3747521.2	29.0	5.00	10.44	1.40
YES								
VOL22	0	0.56296E-02	392219.6	3747557.0	29.0	5.00	10.44	1.40
YES								
VOL23	0	0.56296E-02	392237.2	3747556.6	29.0	5.00	10.44	1.40
YES								
VOL24	0	0.56296E-02	392256.9	3747546.6	29.0	5.00	10.44	1.40
YES								
VOL25	0	0.56296E-02	392256.5	3747502.1	29.0	5.00	10.44	1.40
YES								
VOL26	0	0.56296E-02	392256.3	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL27	0	0.56296E-02	392211.2	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL28	0	0.56296E-02	392167.1	3747484.7	29.0	5.00	10.44	1.40
YES								
VOL29	0	0.56296E-02	392122.1	3747484.9	29.0	5.00	10.44	1.40
YES								
VOL30	0	0.56296E-02	392076.7	3747485.0	29.0	5.00	10.44	1.40
YES								
VOL31	0	0.56296E-02	392032.1	3747485.2	29.0	5.00	10.44	1.40
YES								

```
 VOL32            0   0.56296E-02  391987.1 3747485.9    29.0     5.00    10.44     1.40
 YES
 VOL33            0   0.56296E-02  391942.7 3747485.9    29.0     5.00    10.44     1.40
 YES
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        11:16:48

                      PAGE   3
 *** 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         ,

              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       ,
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        11:16:48

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                          *** SOURCE IDs DEFINED AS URBAN SOURCES ***

  URBAN ID   URBAN POP                                    SOURCE IDs
  --------   ---------                                    ----------


               9818605.   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       ,
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        11:16:48
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391891.2, 3747480.4, 29.0, 29.0, 2.0); (391892.0, 3747456.0, 29.0, 29.0, 2.0);
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(391854.2, 3747514.0, 29.0, 29.0, 2.0); (391855.2,
3747538.9, 29.0, 29.0, 2.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391855.5, 3747549.8, 29.0, 29.0, 2.0); (392423.8,
3747240.4, 29.0, 29.0, 2.0);
(391889.9, 3747651.9, 29.0, 29.0, 2.0); (391854.0,
3747577.0, 29.0, 29.0, 2.0);
(391854.2, 3747603.1, 29.0, 29.0, 2.0); (391855.0,
3747615.6, 29.0, 29.0, 2.0);
(391855.6, 3747626.4, 29.0, 29.0, 2.0); (391854.1,
3747455.5, 29.0, 29.0, 2.0);
(391853.4, 3747443.5, 29.0, 29.0, 2.0); (391888.7,
3747380.1, 29.0, 29.0, 2.0);
(391853.6, 3747430.3, 29.0, 29.0, 2.0); (391842.3,
3747485.1, 29.0, 29.0, 2.0);
(391705.1, 3747221.2, 29.0, 29.0, 2.0); (391890.3,
3747198.7, 29.0, 29.0, 2.0);
(391791.8, 3747248.3, 29.0, 29.0,
2.0);

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

```
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file:
KLGB_V9_ADJU\KLGB_v9.SFC Met
Version: 16216
Profile file:
KLGB_V9_ADJU\KLGB_v9.PFL
Surface format:
FREE

Profile format:
FREE

Surface station no.: 23129 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	-5.3	0.094	-9.000	-9.000	-999.	70.	14.3	0.10	2.68	1.00	1.13	322.	7.9	282.0	2.0
12	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	2.68	1.00	0.00	0.	7.9	281.4	2.0
12	01	01	1	03	-2.5	0.068	-9.000	-9.000	-999.	43.	11.4	0.10	2.68	1.00	0.74				

```
 79.    7.9  280.9    2.0
 12 01 01   1 04   -3.2  0.075 -9.000 -9.000 -999.   49.     11.7  0.10   2.68   1.00    0.86
 137.    7.9  280.9    2.0
 12 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.10   2.68   1.00    0.00
 0.    7.9  280.4    2.0
 12 01 01   1 06   -5.2  0.093 -9.000 -9.000 -999.   68.     14.0  0.10   2.68   1.00    1.11
 92.    7.9  279.9    2.0
 12 01 01   1 07   -2.3  0.066 -9.000 -9.000 -999.   41.     11.5  0.10   2.68   1.00    0.69
 67.    7.9  278.8    2.0
 12 01 01   1 08   -1.7  0.060 -9.000 -9.000 -999.   36.     11.4  0.10   2.68   0.54    0.65
 91.    7.9  279.9    2.0
 12 01 01   1 09   36.2 -9.000 -9.000 -9.000   37. -999. -99999.0  0.10   2.68   0.31    0.00
 0.    7.9  283.8    2.0
 12 01 01   1 10  108.4  0.139  0.707  0.009  119.  124.     -2.3  0.10   2.68   0.24    0.92
 319.    7.9  287.5    2.0
 12 01 01   1 11  160.5  0.114  1.137  0.005  334.   93.     -1.0  0.10   2.68   0.21    0.62
 23.    7.9  292.5    2.0
 12 01 01   1 12  186.7  0.125  1.473  0.005  623.  105.     -1.0  0.10   2.68   0.20    0.69
 18.    7.9  295.4    2.0
 12 01 01   1 13  186.8  0.130  1.761  0.005 1065.  112.     -1.1  0.10   2.68   0.20    0.74
 250.    7.9  297.5    2.0
 12 01 01   1 14  161.7  0.150  1.834  0.005 1387.  139.     -1.9  0.10   2.68   0.21    0.96
 347.    7.9  300.4    2.0
 12 01 01   1 15  105.5  0.243  1.633  0.005 1499.  288.    -12.4  0.10   2.68   0.24    2.11
 194.    7.9  295.9    2.0
 12 01 01   1 16   32.4  0.211  1.109  0.005 1530.  233.    -26.3  0.10   2.68   0.33    1.98
 186.    7.9  295.4    2.0
 12 01 01   1 17  -20.5  0.250 -9.000 -9.000 -999.  300.     69.2  0.10   2.68   0.60    2.81
 293.    7.9  291.4    2.0
 12 01 01   1 18  -25.4  0.257 -9.000 -9.000 -999.  313.     72.8  0.10   2.68   1.00    2.90
 301.    7.9  288.1    2.0
 12 01 01   1 19  -21.0  0.211 -9.000 -9.000 -999.  233.     49.0  0.10   2.68   1.00    2.40
 313.    7.9  286.4    2.0
 12 01 01   1 20  -25.7  0.258 -9.000 -9.000 -999.  315.     73.3  0.10   2.68   1.00    2.91
 302.    7.9  286.4    2.0
 12 01 01   1 21  -22.5  0.225 -9.000 -9.000 -999.  256.     55.7  0.10   2.68   1.00    2.55
 306.    7.9  285.4    2.0
 12 01 01   1 22   -9.3  0.126 -9.000 -9.000 -999.  111.     19.5  0.10   2.68   1.00    1.48
 284.    7.9  285.9    2.0
 12 01 01   1 23  -21.4  0.214 -9.000 -9.000 -999.  237.     50.3  0.10   2.68   1.00    2.43
 282.    7.9  285.4    2.0
 12 01 01   1 24  -30.1  0.300 -9.000 -9.000 -999.  394.     98.9  0.10   2.68   1.00    3.36
 300.    7.9  284.2    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  322.    1.13   282.1   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       11:16:48

                      PAGE   9
 *** 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)
391891.24	3747480.41	31.12320	(13041207)	391892.01	3747456.00	33.15081	(13041207)
391965.04	3747447.61	36.92394	(13041207)	391925.38	3747447.61	36.37828	(13041207)
392089.38	3747454.66	37.56304	(13041207)	392112.83	3747454.85	36.24944	(13041207)
392033.31	3747443.03	32.92442	(13041207)	392142.39	3747442.46	29.86984	(13041207)
392336.71	3747437.69	20.97302	(12122516)	392429.96	3747448.18	12.11194	(12122516)
392412.42	3747555.73	9.76326	(15011116)	392343.77	3747480.03	23.85222	(12122516)
392217.30	3747461.24	34.18816	(12071106)	392161.48	3747408.94	15.62711	(12071106)
391879.25	3747513.22	23.86089	(13041207)	391891.65	3747546.98	25.63835	(13110408)
391891.84	3747573.68	27.06380	(13110408)	391884.40	3747601.90	19.25002	(13110408)
391891.08	3747641.76	18.32856	(16021717)	391889.35	3747663.46	15.60483	(12112916)
391883.45	3747699.92	11.68051	(12112916)	391881.92	3747730.82	9.36176	(12112916)
391884.40	3747754.47	8.07920	(12112916)	391885.36	3747780.40	6.98117	(12112916)
391883.83	3747768.01	7.47860	(12112916)	391493.56	3748488.26	1.26234	(14091424)
391947.12	3747875.71	6.17004	(12020617)	391983.08	3747875.94	6.95067	(12020617)
391885.46	3747791.74	6.61278	(15091424)	391889.32	3747804.03	6.32431	(14091424)
391887.50	3747815.86	6.05100	(14091424)	391874.76	3747826.10	5.74189	(12082022)
391892.74	3747852.04	5.39557	(15072023)	391892.51	3747880.49	4.95831	(15091120)
392032.89	3747873.67	7.42548	(12020617)	392140.29	3747873.36	7.21742	(12020617)
392233.52	3747864.86	7.01236	(14041207)	392523.19	3747518.42	5.57727	(14091722)
392655.00	3747574.84	3.61319	(13092022)	392733.47	3747870.77	2.42233	(16092618)
391927.56	3747940.84	4.46503	(12020617)	391927.83	3747987.42	3.93119	(12020617)
391940.95	3748045.52	3.61564	(12020617)	391926.76	3748083.27	3.11757	(12020617)
391928.37	3748118.62	2.91446	(12020617)	391927.56	3748149.14	2.73147	(12020617)
391892.49	3747904.69	4.63821	(15091120)	391891.96	3747917.81	4.47214	(15091120)
391891.15	3747931.74	4.30275	(15091120)	391885.26	3747942.98	4.15653	(15091120)
391893.29	3747955.03	4.04279	(15091120)	391893.83	3747978.59	3.80121	(15091003)
391893.03	3747994.39	3.65519	(15091003)	391885.80	3748035.62	3.30006	(15091003)

391893.83   3748088.36   2.93687 (14080322)   391894.63
3748143.78   2.63341 (14080322)
391894.10   3748120.49   2.75625 (14080322)   391894.63
3748155.30   2.57459 (14080322)
391891.15   3748182.87   2.43846 (15081805)   391893.03
3748195.99   2.38185 (15081805)
391927.30   3748191.71   2.51419 (12020617)   391928.64
3748236.15   2.32801 (12020617)
391928.64   3748259.98   2.23095 (12020617)   391894.37
3748207.50   2.33254 (15081805)
391891.15   3748220.09   2.27768 (15081805)   391891.15
3748231.06   2.23269 (15081805)
391891.15   3748243.38   2.18340 (15081805)   391891.15
3748255.70   2.13680 (15081802)
391895.17   3748287.02   2.03121 (15081802)   391895.44
3748311.12   1.95174 (15081802)
391886.07   3748326.91   1.89936 (15081802)   391893.83
3748337.09   1.87024 (15081802)
391896.46   3748353.98   1.82242 (13052920)   391943.47
3748329.02   2.06178 (12020617)
391942.12   3748346.05   1.99503 (12020617)   391935.35
3748361.91   1.90953 (12020617)
391897.02   3748404.40   1.69080 (13052920)   391938.93
3748376.12   1.88117 (12020617)
391932.47   3748387.64   1.81675 (12020617)   391891.74
3748427.33   1.63369 (13052920)

*** 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)
- -
391929.07   3748405.45   1.75022 (12020617)   391929.40
3748424.21   1.70021 (12020617)
391929.73   3748439.17   1.66194 (12020617)   391928.74
3748454.63   1.61863 (12020617)
391897.00   3748453.15   1.57763 (15073104)   391866.08
3747495.99   20.80080 (13041207)
391854.46   3747480.49   18.76902 (13041207)   391855.46
3747526.86   19.00496 (13110408)
391854.21   3747513.99   18.36158 (13110408)   391855.21
3747538.86   19.37813 (13110408)
391855.46   3747549.85   19.77336 (13110408)   392423.79
3747240.43   4.64308 (15090824)

391889.87 3747651.95 16.81105 (16021717) 391853.95
3747577.01 18.51316 (13110408)
391854.20 3747603.13 14.70713 (13110408) 391854.95
3747615.63 14.54757 (16112016)
391855.57 3747626.38 14.44071 (16112016) 391854.14
3747455.54 20.65653 (13041207)
391853.42 3747443.48 21.03689 (13041207) 391888.71
3747380.11 17.53077 (13041207)
391853.60 3747430.34 21.10009 (13041207) 391842.26
3747485.07 15.27228 (13041207)
391705.13 3747221.17 6.18179 (13041207) 391890.27
3747198.72 4.68081 (15071920)
391791.77 3747248.29 7.33342
(13041207)

*** 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 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391891.24	3747480.41	14.22608	(13012408)	391892.01	3747456.00	12.19536	(12121624)
391965.04	3747447.61	19.78538	(14021308)	391925.38	3747447.61	15.32799	(14021308)
392089.38	3747454.66	27.09745	(14021308)	392112.83	3747454.85	27.37942	(14021308)
392033.31	3747443.03	21.41643	(14021308)	392142.39	3747442.46	21.80359	(14021308)
392336.71	3747437.69	11.65894m	(12050224)	392429.96	3747448.18	6.31638	(16101608)
392412.42	3747555.73	7.64852	(12110824)	392343.77	3747480.03	11.41977	(16101608)
392217.30	3747461.24	30.06391	(14021308)	392161.48	3747408.94	13.84488	(14021308)
391879.25	3747513.22	14.16994	(14120308)	391891.65	3747546.98	16.86151	(14021308)
391891.84	3747573.68	16.57101	(14021308)	391884.40	3747601.90	14.23471	(13021808)
391891.08	3747641.76	13.05550	(13052508)	391889.35	3747663.46	10.98783	(13021908)
391883.45	3747699.92	8.26943	(13021908)	391881.92	3747730.82	6.90379	(15090108)
391884.40	3747754.47	6.33075	(13091724)	391885.36	3747780.40	5.79168	(13091724)

391883.83 3747768.01 6.02068 (13091724) 391493.56
3748488.26 0.98471 (13091724)
391947.12 3747875.71 4.39199 (15082008) 391983.08
3747875.94 4.50410 (13041424)
391885.46 3747791.74 5.56736 (13091724) 391889.32
3747804.03 5.38163 (13091724)
391887.50 3747815.86 5.14317 (13091724) 391874.76
3747826.10 4.83971 (13091724)
391892.74 3747852.04 4.57034 (13091724) 391892.51
3747880.49 4.13808 (13091724)
392032.89 3747873.67 4.66532 (13041424) 392140.29
3747873.36 4.36390 (12042924)
392233.52 3747864.86 4.52402 (12042924) 392523.19
3747518.42 4.09570 (15091524)
392655.00 3747574.84 2.84804 (12110824) 392733.47
3747870.77 1.57764 (12041224)
391927.56 3747940.84 3.47879 (15082008) 391927.83
3747987.42 2.99004 (15082008)
391940.95 3748045.52 2.66038 (13041424) 391926.76
3748083.27 2.40013 (13041424)
391928.37 3748118.62 2.23336 (13041424) 391927.56
3748149.14 2.09663 (13041424)
391892.49 3747904.69 3.80560 (13091724) 391891.96
3747917.81 3.63689 (13091724)
391891.15 3747931.74 3.48451 (15082008) 391885.26
3747942.98 3.34621 (15082008)
391893.29 3747955.03 3.26352 (15082008) 391893.83
3747978.59 3.04945 (15082008)
391893.03 3747994.39 2.91282 (15082008) 391885.80
3748035.62 2.58751 (15082008)
391893.83 3748088.36 2.24396 (13041424) 391894.63
3748143.78 2.03065 (13041424)
391894.10 3748120.49 2.11637 (13041424) 391894.63
3748155.30 1.98898 (13041424)
391891.15 3748182.87 1.88456 (13041424) 391893.03
3748195.99 1.84655 (13041424)
391927.30 3748191.71 1.92647 (13041424) 391928.64
3748236.15 1.77000 (13041424)
391928.64 3748259.98 1.69243 (13041424) 391894.37
3748207.50 1.81284 (13041424)
391891.15 3748220.09 1.76698 (13041424) 391891.15
3748231.06 1.73412 (13041424)
391891.15 3748243.38 1.69815 (13041424) 391891.15
3748255.70 1.66314 (13041424)
391895.17 3748287.02 1.58324 (13041424) 391895.44
3748311.12 1.52105 (13041424)
391886.07 3748326.91 1.47300 (13041424) 391893.83
3748337.09 1.45601 (13041424)
391896.46 3748353.98 1.41832 (13041424) 391943.47
3748329.02 1.49190 (13041424)
391942.12 3748346.05 1.44680 (13041424) 391935.35
3748361.91 1.40795 (13041424)
391897.02 3748404.40 1.30815 (13041424) 391938.93
3748376.12 1.37238 (13041424)
391932.47 3748387.64 1.34689 (13041424) 391891.74
3748427.33 1.26035 (13041424)

*** 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 (M)	CONC	(YYMMDDHH)
391929.07	3748405.45	1.30737	(13041424)	391929.40	3748424.21	1.26673	(13041424)
391929.73	3748439.17	1.23552	(13041424)	391928.74	3748454.63	1.20485	(13041424)
391897.00	3748453.15	1.21197	(13041424)	391866.08	3747495.99	12.15106	(13012408)
391854.46	3747480.49	10.87390	(13012408)	391855.46	3747526.86	11.94260	(14120308)
391854.21	3747513.99	11.64521	(14120308)	391855.21	3747538.86	11.97492	(14113008)
391855.46	3747549.85	12.22756	(14113008)	392423.79	3747240.43	4.26718c	(12120424)
391889.87	3747651.95	12.03943	(13052508)	391853.95	3747577.01	11.88249	(14113008)
391854.20	3747603.13	11.02605	(13021808)	391854.95	3747615.63	10.78961	(13021808)
391855.57	3747626.38	10.42565	(13021808)	391854.14	3747455.54	9.68485	(13012408)
391853.42	3747443.48	8.87890	(12121624)	391888.71	3747380.11	6.73855	(12120908)
391853.60	3747430.34	8.30708	(12121624)	391842.26	3747485.07	10.11421	(13012408)
391705.13	3747221.17	2.44520	(12120908)	391890.27	3747198.72	2.76174	(16121008)
391791.77	3747248.29	3.00754	(12120908)				

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF CO IN
MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID

ALL HIGH 1ST HIGH VALUE IS 37.56304 ON 13041207: AT (392089.38, 3747454.66, 29.00, 29.00, 2.00) DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** THE SUMMARY OF HIGHEST 8-HR RESULTS ***

** CONC OF CO IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	30.06391	ON 14021308: AT (392217.30, 3747461.24, 29.00, 29.00, 2.00)	DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** 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 1017 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 747 Calm Hours Identified

A Total of 270 Missing Hours Identified (0.62 Percent)

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********

```
ME W186     128       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187     128       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

   ************************************
   *** AERMOD Finishes Successfully ***
   ************************************
```

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/7/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt5 NOX\14715 Ops
Alt5 NOX.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 1
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID NOX
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt5 NOX.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
```

```
   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL2         0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL3         0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL4         0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL5         0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL6         0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL7         0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL8         0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL9         0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL10        0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL11        0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL12        0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL13        0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL14        0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL15        0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL16        0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL17        0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL18        0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL19        0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL20        0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL21        0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL22        0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL23        0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL24        0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL25        0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL26        0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL27        0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL28        0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL29        0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL30        0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL31        0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL32        0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL33        0.0004485525     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Alt5 NOX.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
```

```
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14715 OPS ALT5 NOX.AD\01H1GALL.PLT" 31
   SUMMFILE "14715 Ops Alt5 NOX.sum"
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/7/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt5 NOX\14715 Ops
Alt5 NOX.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 1
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID NOX
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt5 NOX.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
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   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
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   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
```

```
   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL2         0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL3         0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL4         0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL5         0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL6         0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL7         0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL8         0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL9         0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL10        0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL11        0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL12        0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL13        0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL14        0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL15        0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL16        0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL17        0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL18        0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL19        0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL20        0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL21        0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL22        0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL23        0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL24        0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL25        0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL26        0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL27        0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL28        0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL29        0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL30        0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL31        0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL32        0.0004485525     5.000    10.435     1.400
   SRCPARAM VOL33        0.0004485525     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Alt5 NOX.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
```

```
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14715 OPS ALT5 NOX.AD\01H1GALL.PLT" 31
   SUMMFILE "14715 Ops Alt5 NOX.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     128       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     128       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 **********************************
 *** SETUP Finishes Successfully ***
 **********************************

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        11:29:16

                      PAGE   1
 *** 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    33 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   9818605.0 ;  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:     33 Source(s);       1 Source Group(s); and     105 Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:     33 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) =    10.00 ;  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:   14715 Ops Alt5
 NOX.err
 **File for Summary of Results:   14715 Ops Alt5
 NOX.sum
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***        11:29:16

                     PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.
              URBAN  EMISSION RATE
  SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ
  SOURCE  SCALAR VARY
    ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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- - - - - - - - - - - - -

VOL1	0	0.44855E-03	391943.2	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL2	0	0.44855E-03	391988.3	3747611.1	29.0	5.00	10.44	1.40
YES								
VOL3	0	0.44855E-03	392033.2	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL4	0	0.44855E-03	392078.1	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL5	0	0.44855E-03	392122.7	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL6	0	0.44855E-03	392167.6	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL7	0	0.44855E-03	392175.8	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL8	0	0.44855E-03	392175.0	3747565.7	29.0	5.00	10.44	1.40
YES								
VOL9	0	0.44855E-03	392129.7	3747566.0	29.0	5.00	10.44	1.40
YES								
VOL10	0	0.44855E-03	392084.7	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL11	0	0.44855E-03	392040.2	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL12	0	0.44855E-03	391995.7	3747566.3	29.0	5.00	10.44	1.40
YES								
VOL13	0	0.44855E-03	391951.4	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL14	0	0.44855E-03	391942.7	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL15	0	0.44855E-03	391942.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL16	0	0.44855E-03	391987.4	3747522.1	29.0	5.00	10.44	1.40
YES								
VOL17	0	0.44855E-03	392031.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL18	0	0.44855E-03	392076.4	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL19	0	0.44855E-03	392121.3	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL20	0	0.44855E-03	392165.8	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL21	0	0.44855E-03	392210.9	3747521.2	29.0	5.00	10.44	1.40
YES								
VOL22	0	0.44855E-03	392219.6	3747557.0	29.0	5.00	10.44	1.40
YES								
VOL23	0	0.44855E-03	392237.2	3747556.6	29.0	5.00	10.44	1.40
YES								
VOL24	0	0.44855E-03	392256.9	3747546.6	29.0	5.00	10.44	1.40
YES								
VOL25	0	0.44855E-03	392256.5	3747502.1	29.0	5.00	10.44	1.40
YES								
VOL26	0	0.44855E-03	392256.3	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL27	0	0.44855E-03	392211.2	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL28	0	0.44855E-03	392167.1	3747484.7	29.0	5.00	10.44	1.40
YES								
VOL29	0	0.44855E-03	392122.1	3747484.9	29.0	5.00	10.44	1.40
YES								
VOL30	0	0.44855E-03	392076.7	3747485.0	29.0	5.00	10.44	1.40
YES								
VOL31	0	0.44855E-03	392032.1	3747485.2	29.0	5.00	10.44	1.40
YES								
VOL32	0	0.44855E-03	391987.1	3747485.9	29.0	5.00	10.44	1.40
YES								

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
9818605.	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 ,

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391891.2, 3747480.4, 29.0, 29.0, 2.0); (391892.0, 3747456.0, 29.0, 29.0, 2.0);
(391965.0, 3747447.6, 29.0, 29.0, 2.0); (391925.4, 3747447.6, 29.0, 29.0, 2.0);
(392089.4, 3747454.7, 29.0, 29.0, 2.0); (392112.8, 3747454.8, 29.0, 29.0, 2.0);
(392033.3, 3747443.0, 29.0, 29.0, 2.0); (392142.4, 3747442.5, 29.0, 29.0, 2.0);
(392336.7, 3747437.7, 29.0, 29.0, 2.0); (392430.0, 3747448.2, 29.0, 29.0, 2.0);
(392412.4, 3747555.7, 29.0, 29.0, 2.0); (392343.8, 3747480.0, 29.0, 29.0, 2.0);
(392217.3, 3747461.2, 29.0, 29.0, 2.0); (392161.5, 3747408.9, 29.0, 29.0, 2.0);
(391879.2, 3747513.2, 29.0, 29.0, 2.0); (391891.6, 3747547.0, 29.0, 29.0, 2.0);
(391891.8, 3747573.7, 29.0, 29.0, 2.0); (391884.4, 3747601.9, 29.0, 29.0, 2.0);
(391891.1, 3747641.8, 29.0, 29.0, 2.0); (391889.3, 3747663.5, 29.0, 29.0, 2.0);
(391883.5, 3747699.9, 29.0, 29.0, 2.0); (391881.9, 3747730.8, 29.0, 29.0, 2.0);
(391884.4, 3747754.5, 29.0, 29.0, 2.0); (391885.4, 3747780.4, 29.0, 29.0, 2.0);
(391883.8, 3747768.0, 29.0, 29.0, 2.0); (391493.6, 3748488.3, 29.0, 29.0, 2.0);
(391947.1, 3747875.7, 29.0, 29.0, 2.0); (391983.1, 3747875.9, 29.0, 29.0, 2.0);
(391885.5, 3747791.7, 29.0, 29.0, 2.0); (391889.3, 3747804.0, 29.0, 29.0, 2.0);
(391887.5, 3747815.9, 29.0, 29.0, 2.0); (391874.8, 3747826.1, 29.0, 29.0, 2.0);
(391892.7, 3747852.0, 29.0, 29.0, 2.0); (391892.5, 3747880.5, 29.0, 29.0, 2.0);
(392032.9, 3747873.7, 29.0, 29.0, 2.0); (392140.3, 3747873.4, 29.0, 29.0, 2.0);
(392233.5, 3747864.9, 29.0, 29.0, 2.0); (392523.2, 3747518.4, 28.3, 28.3, 2.0);
(392655.0, 3747574.8, 28.0, 28.0, 2.0); (392733.5, 3747870.8, 27.6, 27.6, 2.0);
(391927.6, 3747940.8, 29.0, 29.0, 2.0); (391927.8, 3747987.4, 29.0, 29.0, 2.0);
(391941.0, 3748045.5, 29.0, 29.0, 2.0); (391926.8, 3748083.3, 29.0, 29.0, 2.0);
(391928.4, 3748118.6, 29.0, 29.0, 2.0); (391927.6, 3748149.1, 29.0, 29.0, 2.0);
(391892.5, 3747904.7, 29.0, 29.0, 2.0); (391892.0, 3747917.8, 29.0, 29.0, 2.0);
(391891.1, 3747931.7, 29.0, 29.0, 2.0); (391885.3, 3747943.0, 29.0, 29.0, 2.0);
(391893.3, 3747955.0, 29.0, 29.0, 2.0); (391893.8, 3747978.6, 29.0, 29.0, 2.0);
(391893.0, 3747994.4, 29.0, 29.0, 2.0); (391885.8, 3748035.6, 29.0, 29.0, 2.0);
(391893.8, 3748088.4, 29.0, 29.0, 2.0); (391894.6, 3748143.8, 29.0, 29.0, 2.0);
(391894.1, 3748120.5, 29.0, 29.0, 2.0); (391894.6, 3748155.3, 29.0, 29.0, 2.0);
(391891.1, 3748182.9, 29.0, 29.0, 2.0); (391893.0, 3748196.0, 29.0, 29.0, 2.0);
(391927.3, 3748191.7, 29.0, 29.0, 2.0); (391928.6,

3748236.1, 29.0, 29.0, 2.0);
(391928.6, 3748260.0, 29.0, 29.0, 2.0); (391894.4,
3748207.5, 29.0, 29.0, 2.0);
(391891.1, 3748220.1, 29.0, 29.0, 2.0); (391891.1,
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(391891.1, 3748243.4, 29.0, 29.0, 2.0); (391891.1,
3748255.7, 29.0, 29.0, 2.0);
(391895.2, 3748287.0, 29.0, 29.0, 2.0); (391895.4,
3748311.1, 29.0, 29.0, 2.0);
(391886.1, 3748326.9, 29.0, 29.0, 2.0); (391893.8,
3748337.1, 29.0, 29.0, 2.0);
(391896.5, 3748354.0, 29.0, 29.0, 2.0); (391943.5,
3748329.0, 29.0, 29.0, 2.0);
(391942.1, 3748346.0, 29.0, 29.0, 2.0); (391935.3,
3748361.9, 29.0, 29.0, 2.0);
(391897.0, 3748404.4, 29.0, 29.0, 2.0); (391938.9,
3748376.1, 29.0, 29.0, 2.0);
(391932.5, 3748387.6, 29.0, 29.0, 2.0); (391891.7,
3748427.3, 29.0, 29.0, 2.0);
(391929.1, 3748405.4, 29.0, 29.0, 2.0); (391929.4,
3748424.2, 29.0, 29.0, 2.0);
(391929.7, 3748439.2, 29.0, 29.0, 2.0); (391928.7,
3748454.6, 29.0, 29.0, 2.0);
(391897.0, 3748453.1, 29.0, 29.0, 2.0); (391866.1,
3747496.0, 29.0, 29.0, 2.0);
(391854.5, 3747480.5, 29.0, 29.0, 2.0); (391855.5,
3747526.9, 29.0, 29.0, 2.0);
(391854.2, 3747514.0, 29.0, 29.0, 2.0); (391855.2,
3747538.9, 29.0, 29.0, 2.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391855.5, 3747549.8, 29.0, 29.0, 2.0); (392423.8,
3747240.4, 29.0, 29.0, 2.0);
(391889.9, 3747651.9, 29.0, 29.0, 2.0); (391854.0,
3747577.0, 29.0, 29.0, 2.0);
(391854.2, 3747603.1, 29.0, 29.0, 2.0); (391855.0,
3747615.6, 29.0, 29.0, 2.0);
(391855.6, 3747626.4, 29.0, 29.0, 2.0); (391854.1,
3747455.5, 29.0, 29.0, 2.0);
(391853.4, 3747443.5, 29.0, 29.0, 2.0); (391888.7,
3747380.1, 29.0, 29.0, 2.0);
(391853.6, 3747430.3, 29.0, 29.0, 2.0); (391842.3,
3747485.1, 29.0, 29.0, 2.0);
(391705.1, 3747221.2, 29.0, 29.0, 2.0); (391890.3,
3747198.7, 29.0, 29.0, 2.0);
(391791.8, 3747248.3, 29.0, 29.0,
2.0);

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***

(1=YES; 0=NO)

```
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file:
KLGB_V9_ADJU\KLGB_v9.SFC Met
Version: 16216
Profile file:
KLGB_V9_ADJU\KLGB_v9.PFL
Surface format:
FREE

Profile format:
FREE

Surface station no.: 23129 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	-5.3	0.094	-9.000	-9.000	-999.	70.	14.3	0.10	2.68	1.00	1.13	322.	7.9	282.0	2.0
12	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	2.68	1.00	0.00	0.	7.9	281.4	2.0
12	01	01	1	03	-2.5	0.068	-9.000	-9.000	-999.	43.	11.4	0.10	2.68	1.00	0.74	79.	7.9	280.9	2.0
12	01	01	1	04	-3.2	0.075	-9.000	-9.000	-999.	49.	11.7	0.10	2.68	1.00	0.86				

```
137.    7.9  280.9    2.0
12 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.10   2.68   1.00    0.00
0.    7.9  280.4    2.0
12 01 01   1 06   -5.2  0.093 -9.000 -9.000 -999.   68.     14.0  0.10   2.68   1.00    1.11
92.    7.9  279.9    2.0
12 01 01   1 07   -2.3  0.066 -9.000 -9.000 -999.   41.     11.5  0.10   2.68   1.00    0.69
67.    7.9  278.8    2.0
12 01 01   1 08   -1.7  0.060 -9.000 -9.000 -999.   36.     11.4  0.10   2.68   0.54    0.65
91.    7.9  279.9    2.0
12 01 01   1 09   36.2 -9.000 -9.000 -9.000   37. -999. -99999.0  0.10   2.68   0.31    0.00
0.    7.9  283.8    2.0
12 01 01   1 10  108.4  0.139  0.707  0.009  119.  124.     -2.3  0.10   2.68   0.24    0.92
319.    7.9  287.5    2.0
12 01 01   1 11  160.5  0.114  1.137  0.005  334.   93.     -1.0  0.10   2.68   0.21    0.62
23.    7.9  292.5    2.0
12 01 01   1 12  186.7  0.125  1.473  0.005  623.  105.     -1.0  0.10   2.68   0.20    0.69
18.    7.9  295.4    2.0
12 01 01   1 13  186.8  0.130  1.761  0.005 1065.  112.     -1.1  0.10   2.68   0.20    0.74
250.    7.9  297.5    2.0
12 01 01   1 14  161.7  0.150  1.834  0.005 1387.  139.     -1.9  0.10   2.68   0.21    0.96
347.    7.9  300.4    2.0
12 01 01   1 15  105.5  0.243  1.633  0.005 1499.  288.    -12.4  0.10   2.68   0.24    2.11
194.    7.9  295.9    2.0
12 01 01   1 16   32.4  0.211  1.109  0.005 1530.  233.    -26.3  0.10   2.68   0.33    1.98
186.    7.9  295.4    2.0
12 01 01   1 17  -20.5  0.250 -9.000 -9.000 -999.  300.     69.2  0.10   2.68   0.60    2.81
293.    7.9  291.4    2.0
12 01 01   1 18  -25.4  0.257 -9.000 -9.000 -999.  313.     72.8  0.10   2.68   1.00    2.90
301.    7.9  288.1    2.0
12 01 01   1 19  -21.0  0.211 -9.000 -9.000 -999.  233.     49.0  0.10   2.68   1.00    2.40
313.    7.9  286.4    2.0
12 01 01   1 20  -25.7  0.258 -9.000 -9.000 -999.  315.     73.3  0.10   2.68   1.00    2.91
302.    7.9  286.4    2.0
12 01 01   1 21  -22.5  0.225 -9.000 -9.000 -999.  256.     55.7  0.10   2.68   1.00    2.55
306.    7.9  285.4    2.0
12 01 01   1 22   -9.3  0.126 -9.000 -9.000 -999.  111.     19.5  0.10   2.68   1.00    1.48
284.    7.9  285.9    2.0
12 01 01   1 23  -21.4  0.214 -9.000 -9.000 -999.  237.     50.3  0.10   2.68   1.00    2.43
282.    7.9  285.4    2.0
12 01 01   1 24  -30.1  0.300 -9.000 -9.000 -999.  394.     98.9  0.10   2.68   1.00    3.36
300.    7.9  284.2    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  322.    1.13   282.1   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       11:29:16

                      PAGE   9
 *** 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 NOX IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391891.24	3747480.41	2.47983	(13041207)	391892.01	3747456.00	2.64138	(13041207)
391965.04	3747447.61	2.94202	(13041207)	391925.38	3747447.61	2.89854	(13041207)
392089.38	3747454.66	2.99294	(13041207)	392112.83	3747454.85	2.88827	(13041207)
392033.31	3747443.03	2.62334	(13041207)	392142.39	3747442.46	2.37996	(13041207)
392336.71	3747437.69	1.67108	(12122516)	392429.96	3747448.18	0.96505	(12122516)
392412.42	3747555.73	0.77791	(15011116)	392343.77	3747480.03	1.90049	(12122516)
392217.30	3747461.24	2.72403	(12071106)	392161.48	3747408.94	1.24513	(12071106)
391879.25	3747513.22	1.90118	(13041207)	391891.65	3747546.98	2.04281	(13110408)
391891.84	3747573.68	2.15638	(13110408)	391884.40	3747601.90	1.53380	(13110408)
391891.08	3747641.76	1.46038	(16021717)	391889.35	3747663.46	1.24336	(12112916)
391883.45	3747699.92	0.93068	(12112916)	391881.92	3747730.82	0.74592	(12112916)
391884.40	3747754.47	0.64373	(12112916)	391885.36	3747780.40	0.55624	(12112916)
391883.83	3747768.01	0.59588	(12112916)	391493.56	3748488.26	0.10058	(14091424)
391947.12	3747875.71	0.49161	(12020617)	391983.08	3747875.94	0.55381	(12020617)
391885.46	3747791.74	0.52689	(15091424)	391889.32	3747804.03	0.50391	(14091424)
391887.50	3747815.86	0.48213	(14091424)	391874.76	3747826.10	0.45750	(12082022)
391892.74	3747852.04	0.42991	(15072023)	391892.51	3747880.49	0.39507	(15091120)
392032.89	3747873.67	0.59165	(12020617)	392140.29	3747873.36	0.57507	(12020617)
392233.52	3747864.86	0.55873	(14041207)	392523.19	3747518.42	0.44438	(14091722)
392655.00	3747574.84	0.28789	(13092022)	392733.47	3747870.77	0.19301	(16092618)
391927.56	3747940.84	0.35576	(12020617)	391927.83	3747987.42	0.31323	(12020617)
391940.95	3748045.52	0.28809	(12020617)	391926.76	3748083.27	0.24840	(12020617)
391928.37	3748118.62	0.23222	(12020617)	391927.56	3748149.14	0.21764	(12020617)
391892.49	3747904.69	0.36956	(15091120)	391891.96	3747917.81	0.35633	(15091120)
391891.15	3747931.74	0.34283	(15091120)	391885.26	3747942.98	0.33118	(15091120)
391893.29	3747955.03	0.32212	(15091120)	391893.83	3747978.59	0.30287	(15091003)
391893.03	3747994.39	0.29124	(15091003)	391885.80	3748035.62	0.26294	(15091003)
391893.83	3748088.36	0.23400	(14080322)	391894.63	3748143.78	0.20982	(14080322)

391894.10 3748120.49 0.21961 (14080322) 391894.63
3748155.30 0.20514 (14080322)
391891.15 3748182.87 0.19429 (15081805) 391893.03
3748195.99 0.18978 (15081805)
391927.30 3748191.71 0.20032 (12020617) 391928.64
3748236.15 0.18549 (12020617)
391928.64 3748259.98 0.17776 (12020617) 391894.37
3748207.50 0.18585 (15081805)
391891.15 3748220.09 0.18148 (15081805) 391891.15
3748231.06 0.17790 (15081805)
391891.15 3748243.38 0.17397 (15081805) 391891.15
3748255.70 0.17026 (15081802)
391895.17 3748287.02 0.16184 (15081802) 391895.44
3748311.12 0.15551 (15081802)
391886.07 3748326.91 0.15134 (15081802) 391893.83
3748337.09 0.14902 (15081802)
391896.46 3748353.98 0.14521 (13052920) 391943.47
3748329.02 0.16428 (12020617)
391942.12 3748346.05 0.15896 (12020617) 391935.35
3748361.91 0.15215 (12020617)
391897.02 3748404.40 0.13472 (13052920) 391938.93
3748376.12 0.14989 (12020617)
391932.47 3748387.64 0.14475 (12020617) 391891.74
3748427.33 0.13017 (13052920)

*** 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 NOX IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391929.07	3748405.45	0.13945	(12020617)	391929.40	3748424.21	0.13547	(12020617)
391929.73	3748439.17	0.13242	(12020617)	391928.74	3748454.63	0.12897	(12020617)
391897.00	3748453.15	0.12570	(15073104)	391866.08	3747495.99	1.65736	(13041207)
391854.46	3747480.49	1.49547	(13041207)	391855.46	3747526.86	1.51427	(13110408)
391854.21	3747513.99	1.46301	(13110408)	391855.21	3747538.86	1.54401	(13110408)
391855.46	3747549.85	1.57550	(13110408)	392423.79	3747240.43	0.36995	(15090824)
391889.87	3747651.95	1.33947	(16021717)	391853.95	3747577.01	1.47509	(13110408)

391854.20 3747603.13 1.17183 (13110408) 391854.95
3747615.63 1.15912 (16112016)
391855.57 3747626.38 1.15060 (16112016) 391854.14
3747455.54 1.64587 (13041207)
391853.42 3747443.48 1.67617 (13041207) 391888.71
3747380.11 1.39681 (13041207)
391853.60 3747430.34 1.68121 (13041207) 391842.26
3747485.07 1.21686 (13041207)
391705.13 3747221.17 0.49255 (13041207) 391890.27
3747198.72 0.37296 (15071920)
391791.77 3747248.29 0.58431
(13041207)

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF NOX IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	1ST HIGH	VALUE IS 2.99294	ON 13041207: AT (392089.38, 3747454.66, 29.00, 29.00, 2.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** 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 1017 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 747 Calm Hours Identified

A Total of 270 Missing Hours Identified (0.62 Percent)

******** FATAL ERROR MESSAGES ********

*** NONE ***

******** WARNING MESSAGES ********

ME W186 128 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used 0.50

ME W187 128 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

****

*** AERMOD Finishes Successfully ***

****

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**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/7/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt5 PM10\14715 Ops
Alt5 PM10.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID PM_10
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt5 PM10.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
```

```
   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL2         0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL3         0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL4         0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL5         0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL6         0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL7         0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL8         0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL9         0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL10        0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL11        0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL12        0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL13        0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL14        0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL15        0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL16        0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL17        0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL18        0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL19        0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL20        0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL21        0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL22        0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL23        0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL24        0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL25        0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL26        0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL27        0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL28        0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL29        0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL30        0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL31        0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL32        0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL33        0.0000541791     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Alt5 PM10.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
```

```
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "14715 OPS ALT5 PM10.AD\24H1GALL.PLT" 31
   SUMMFILE "14715 Ops Alt5 PM10.sum"
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/7/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt5 PM10\14715 Ops
Alt5 PM10.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID PM_10
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt5 PM10.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
```

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   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL2         0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL3         0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL4         0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL5         0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL6         0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL7         0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL8         0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL9         0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL10        0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL11        0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL12        0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL13        0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL14        0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL15        0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL16        0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL17        0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL18        0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL19        0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL20        0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL21        0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL22        0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL23        0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL24        0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL25        0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL26        0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL27        0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL28        0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL29        0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL30        0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL31        0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL32        0.0000541791     5.000    10.435     1.400
   SRCPARAM VOL33        0.0000541791     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Alt5 PM10.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
```

```
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "14715 OPS ALT5 PM10.AD\24H1GALL.PLT" 31
   SUMMFILE "14715 Ops Alt5 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     128       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     128       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 *********************************
 *** SETUP Finishes Successfully ***
 *********************************

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        11:34:35

                      PAGE   1
 *** 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    33 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   9818605.0 ;  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:     33 Source(s);       1 Source Group(s); and     105 Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:     33 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) =    10.00 ;  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:   14715 Ops Alt5
 PM10.err
 **File for Summary of Results:   14715 Ops Alt5
 PM10.sum
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       11:34:35

                      PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.
              URBAN  EMISSION RATE
  SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ
  SOURCE  SCALAR VARY
    ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

- - - - - - - - - - - - -

VOL1	0	0.54179E-04	391943.2	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL2	0	0.54179E-04	391988.3	3747611.1	29.0	5.00	10.44	1.40
YES								
VOL3	0	0.54179E-04	392033.2	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL4	0	0.54179E-04	392078.1	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL5	0	0.54179E-04	392122.7	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL6	0	0.54179E-04	392167.6	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL7	0	0.54179E-04	392175.8	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL8	0	0.54179E-04	392175.0	3747565.7	29.0	5.00	10.44	1.40
YES								
VOL9	0	0.54179E-04	392129.7	3747566.0	29.0	5.00	10.44	1.40
YES								
VOL10	0	0.54179E-04	392084.7	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL11	0	0.54179E-04	392040.2	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL12	0	0.54179E-04	391995.7	3747566.3	29.0	5.00	10.44	1.40
YES								
VOL13	0	0.54179E-04	391951.4	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL14	0	0.54179E-04	391942.7	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL15	0	0.54179E-04	391942.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL16	0	0.54179E-04	391987.4	3747522.1	29.0	5.00	10.44	1.40
YES								
VOL17	0	0.54179E-04	392031.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL18	0	0.54179E-04	392076.4	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL19	0	0.54179E-04	392121.3	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL20	0	0.54179E-04	392165.8	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL21	0	0.54179E-04	392210.9	3747521.2	29.0	5.00	10.44	1.40
YES								
VOL22	0	0.54179E-04	392219.6	3747557.0	29.0	5.00	10.44	1.40
YES								
VOL23	0	0.54179E-04	392237.2	3747556.6	29.0	5.00	10.44	1.40
YES								
VOL24	0	0.54179E-04	392256.9	3747546.6	29.0	5.00	10.44	1.40
YES								
VOL25	0	0.54179E-04	392256.5	3747502.1	29.0	5.00	10.44	1.40
YES								
VOL26	0	0.54179E-04	392256.3	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL27	0	0.54179E-04	392211.2	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL28	0	0.54179E-04	392167.1	3747484.7	29.0	5.00	10.44	1.40
YES								
VOL29	0	0.54179E-04	392122.1	3747484.9	29.0	5.00	10.44	1.40
YES								
VOL30	0	0.54179E-04	392076.7	3747485.0	29.0	5.00	10.44	1.40
YES								
VOL31	0	0.54179E-04	392032.1	3747485.2	29.0	5.00	10.44	1.40
YES								
VOL32	0	0.54179E-04	391987.1	3747485.9	29.0	5.00	10.44	1.40
YES								

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
9818605.	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 ,

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391891.2, 3747480.4, 29.0, 29.0, 2.0); (391892.0, 3747456.0, 29.0, 29.0, 2.0);
(391965.0, 3747447.6, 29.0, 29.0, 2.0); (391925.4, 3747447.6, 29.0, 29.0, 2.0);
(392089.4, 3747454.7, 29.0, 29.0, 2.0); (392112.8, 3747454.8, 29.0, 29.0, 2.0);
(392033.3, 3747443.0, 29.0, 29.0, 2.0); (392142.4, 3747442.5, 29.0, 29.0, 2.0);
(392336.7, 3747437.7, 29.0, 29.0, 2.0); (392430.0, 3747448.2, 29.0, 29.0, 2.0);
(392412.4, 3747555.7, 29.0, 29.0, 2.0); (392343.8, 3747480.0, 29.0, 29.0, 2.0);
(392217.3, 3747461.2, 29.0, 29.0, 2.0); (392161.5, 3747408.9, 29.0, 29.0, 2.0);
(391879.2, 3747513.2, 29.0, 29.0, 2.0); (391891.6, 3747547.0, 29.0, 29.0, 2.0);
(391891.8, 3747573.7, 29.0, 29.0, 2.0); (391884.4, 3747601.9, 29.0, 29.0, 2.0);
(391891.1, 3747641.8, 29.0, 29.0, 2.0); (391889.3, 3747663.5, 29.0, 29.0, 2.0);
(391883.5, 3747699.9, 29.0, 29.0, 2.0); (391881.9, 3747730.8, 29.0, 29.0, 2.0);
(391884.4, 3747754.5, 29.0, 29.0, 2.0); (391885.4, 3747780.4, 29.0, 29.0, 2.0);
(391883.8, 3747768.0, 29.0, 29.0, 2.0); (391493.6, 3748488.3, 29.0, 29.0, 2.0);
(391947.1, 3747875.7, 29.0, 29.0, 2.0); (391983.1, 3747875.9, 29.0, 29.0, 2.0);
(391885.5, 3747791.7, 29.0, 29.0, 2.0); (391889.3, 3747804.0, 29.0, 29.0, 2.0);
(391887.5, 3747815.9, 29.0, 29.0, 2.0); (391874.8, 3747826.1, 29.0, 29.0, 2.0);
(391892.7, 3747852.0, 29.0, 29.0, 2.0); (391892.5, 3747880.5, 29.0, 29.0, 2.0);
(392032.9, 3747873.7, 29.0, 29.0, 2.0); (392140.3, 3747873.4, 29.0, 29.0, 2.0);
(392233.5, 3747864.9, 29.0, 29.0, 2.0); (392523.2, 3747518.4, 28.3, 28.3, 2.0);
(392655.0, 3747574.8, 28.0, 28.0, 2.0); (392733.5, 3747870.8, 27.6, 27.6, 2.0);
(391927.6, 3747940.8, 29.0, 29.0, 2.0); (391927.8, 3747987.4, 29.0, 29.0, 2.0);
(391941.0, 3748045.5, 29.0, 29.0, 2.0); (391926.8, 3748083.3, 29.0, 29.0, 2.0);
(391928.4, 3748118.6, 29.0, 29.0, 2.0); (391927.6, 3748149.1, 29.0, 29.0, 2.0);
(391892.5, 3747904.7, 29.0, 29.0, 2.0); (391892.0, 3747917.8, 29.0, 29.0, 2.0);
(391891.1, 3747931.7, 29.0, 29.0, 2.0); (391885.3, 3747943.0, 29.0, 29.0, 2.0);
(391893.3, 3747955.0, 29.0, 29.0, 2.0); (391893.8, 3747978.6, 29.0, 29.0, 2.0);
(391893.0, 3747994.4, 29.0, 29.0, 2.0); (391885.8, 3748035.6, 29.0, 29.0, 2.0);
(391893.8, 3748088.4, 29.0, 29.0, 2.0); (391894.6, 3748143.8, 29.0, 29.0, 2.0);
(391894.1, 3748120.5, 29.0, 29.0, 2.0); (391894.6, 3748155.3, 29.0, 29.0, 2.0);
(391891.1, 3748182.9, 29.0, 29.0, 2.0); (391893.0, 3748196.0, 29.0, 29.0, 2.0);
(391927.3, 3748191.7, 29.0, 29.0, 2.0); (391928.6,

3748236.1, 29.0, 29.0, 2.0);
(391928.6, 3748260.0, 29.0, 29.0, 2.0); (391894.4,
3748207.5, 29.0, 29.0, 2.0);
(391891.1, 3748220.1, 29.0, 29.0, 2.0); (391891.1,
3748231.1, 29.0, 29.0, 2.0);
(391891.1, 3748243.4, 29.0, 29.0, 2.0); (391891.1,
3748255.7, 29.0, 29.0, 2.0);
(391895.2, 3748287.0, 29.0, 29.0, 2.0); (391895.4,
3748311.1, 29.0, 29.0, 2.0);
(391886.1, 3748326.9, 29.0, 29.0, 2.0); (391893.8,
3748337.1, 29.0, 29.0, 2.0);
(391896.5, 3748354.0, 29.0, 29.0, 2.0); (391943.5,
3748329.0, 29.0, 29.0, 2.0);
(391942.1, 3748346.0, 29.0, 29.0, 2.0); (391935.3,
3748361.9, 29.0, 29.0, 2.0);
(391897.0, 3748404.4, 29.0, 29.0, 2.0); (391938.9,
3748376.1, 29.0, 29.0, 2.0);
(391932.5, 3748387.6, 29.0, 29.0, 2.0); (391891.7,
3748427.3, 29.0, 29.0, 2.0);
(391929.1, 3748405.4, 29.0, 29.0, 2.0); (391929.4,
3748424.2, 29.0, 29.0, 2.0);
(391929.7, 3748439.2, 29.0, 29.0, 2.0); (391928.7,
3748454.6, 29.0, 29.0, 2.0);
(391897.0, 3748453.1, 29.0, 29.0, 2.0); (391866.1,
3747496.0, 29.0, 29.0, 2.0);
(391854.5, 3747480.5, 29.0, 29.0, 2.0); (391855.5,
3747526.9, 29.0, 29.0, 2.0);
(391854.2, 3747514.0, 29.0, 29.0, 2.0); (391855.2,
3747538.9, 29.0, 29.0, 2.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391855.5, 3747549.8, 29.0, 29.0, 2.0); (392423.8,
3747240.4, 29.0, 29.0, 2.0);
(391889.9, 3747651.9, 29.0, 29.0, 2.0); (391854.0,
3747577.0, 29.0, 29.0, 2.0);
(391854.2, 3747603.1, 29.0, 29.0, 2.0); (391855.0,
3747615.6, 29.0, 29.0, 2.0);
(391855.6, 3747626.4, 29.0, 29.0, 2.0); (391854.1,
3747455.5, 29.0, 29.0, 2.0);
(391853.4, 3747443.5, 29.0, 29.0, 2.0); (391888.7,
3747380.1, 29.0, 29.0, 2.0);
(391853.6, 3747430.3, 29.0, 29.0, 2.0); (391842.3,
3747485.1, 29.0, 29.0, 2.0);
(391705.1, 3747221.2, 29.0, 29.0, 2.0); (391890.3,
3747198.7, 29.0, 29.0, 2.0);
(391791.8, 3747248.3, 29.0, 29.0,
2.0);

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***

(1=YES; 0=NO)

```
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file:
KLGB_V9_ADJU\KLGB_v9.SFC Met
Version: 16216
Profile file:
KLGB_V9_ADJU\KLGB_v9.PFL
Surface format:
FREE

Profile format:
FREE

Surface station no.: 23129 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	-5.3	0.094	-9.000	-9.000	-999.	70.	14.3	0.10	2.68	1.00	1.13	322.	7.9	282.0	2.0
12	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	2.68	1.00	0.00	0.	7.9	281.4	2.0
12	01	01	1	03	-2.5	0.068	-9.000	-9.000	-999.	43.	11.4	0.10	2.68	1.00	0.74	79.	7.9	280.9	2.0
12	01	01	1	04	-3.2	0.075	-9.000	-9.000	-999.	49.	11.7	0.10	2.68	1.00	0.86				

```
137.    7.9  280.9    2.0
12 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.10   2.68   1.00    0.00
0.    7.9  280.4    2.0
12 01 01   1 06   -5.2  0.093 -9.000 -9.000 -999.   68.     14.0  0.10   2.68   1.00    1.11
92.    7.9  279.9    2.0
12 01 01   1 07   -2.3  0.066 -9.000 -9.000 -999.   41.     11.5  0.10   2.68   1.00    0.69
67.    7.9  278.8    2.0
12 01 01   1 08   -1.7  0.060 -9.000 -9.000 -999.   36.     11.4  0.10   2.68   0.54    0.65
91.    7.9  279.9    2.0
12 01 01   1 09   36.2 -9.000 -9.000 -9.000   37. -999. -99999.0  0.10   2.68   0.31    0.00
0.    7.9  283.8    2.0
12 01 01   1 10  108.4  0.139  0.707  0.009  119.  124.     -2.3  0.10   2.68   0.24    0.92
319.    7.9  287.5    2.0
12 01 01   1 11  160.5  0.114  1.137  0.005  334.   93.     -1.0  0.10   2.68   0.21    0.62
23.    7.9  292.5    2.0
12 01 01   1 12  186.7  0.125  1.473  0.005  623.  105.     -1.0  0.10   2.68   0.20    0.69
18.    7.9  295.4    2.0
12 01 01   1 13  186.8  0.130  1.761  0.005 1065.  112.     -1.1  0.10   2.68   0.20    0.74
250.    7.9  297.5    2.0
12 01 01   1 14  161.7  0.150  1.834  0.005 1387.  139.     -1.9  0.10   2.68   0.21    0.96
347.    7.9  300.4    2.0
12 01 01   1 15  105.5  0.243  1.633  0.005 1499.  288.    -12.4  0.10   2.68   0.24    2.11
194.    7.9  295.9    2.0
12 01 01   1 16   32.4  0.211  1.109  0.005 1530.  233.    -26.3  0.10   2.68   0.33    1.98
186.    7.9  295.4    2.0
12 01 01   1 17  -20.5  0.250 -9.000 -9.000 -999.  300.     69.2  0.10   2.68   0.60    2.81
293.    7.9  291.4    2.0
12 01 01   1 18  -25.4  0.257 -9.000 -9.000 -999.  313.     72.8  0.10   2.68   1.00    2.90
301.    7.9  288.1    2.0
12 01 01   1 19  -21.0  0.211 -9.000 -9.000 -999.  233.     49.0  0.10   2.68   1.00    2.40
313.    7.9  286.4    2.0
12 01 01   1 20  -25.7  0.258 -9.000 -9.000 -999.  315.     73.3  0.10   2.68   1.00    2.91
302.    7.9  286.4    2.0
12 01 01   1 21  -22.5  0.225 -9.000 -9.000 -999.  256.     55.7  0.10   2.68   1.00    2.55
306.    7.9  285.4    2.0
12 01 01   1 22   -9.3  0.126 -9.000 -9.000 -999.  111.     19.5  0.10   2.68   1.00    1.48
284.    7.9  285.9    2.0
12 01 01   1 23  -21.4  0.214 -9.000 -9.000 -999.  237.     50.3  0.10   2.68   1.00    2.43
282.    7.9  285.4    2.0
12 01 01   1 24  -30.1  0.300 -9.000 -9.000 -999.  394.     98.9  0.10   2.68   1.00    3.36
300.    7.9  284.2    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  322.    1.13   282.1   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       11:34:35

                      PAGE   9
 *** 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        , 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_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391891.24	3747480.41	0.10454	(12121624)	391892.01	3747456.00	0.08309	(12121624)
391965.04	3747447.61	0.13039c	(12122924)	391925.38	3747447.61	0.10649c	(12122924)
392089.38	3747454.66	0.18315c	(12122524)	392112.83	3747454.85	0.18581c	(12122524)
392033.31	3747443.03	0.14093c	(12122524)	392142.39	3747442.46	0.15050c	(12122524)
392336.71	3747437.69	0.07705	(13122724)	392429.96	3747448.18	0.03969	(13040124)
392412.42	3747555.73	0.04175	(15040624)	392343.77	3747480.03	0.07880	(16101624)
392217.30	3747461.24	0.20620c	(12122524)	392161.48	3747408.94	0.09533m	(15020724)
391879.25	3747513.22	0.10014	(12121624)	391891.65	3747546.98	0.11879	(14121624)
391891.84	3747573.68	0.11808	(14121624)	391884.40	3747601.90	0.10015	(12112924)
391891.08	3747641.76	0.08739	(12112924)	391889.35	3747663.46	0.07167	(12112924)
391883.45	3747699.92	0.05131	(12112924)	391881.92	3747730.82	0.04298	(13043024)
391884.40	3747754.47	0.03951	(13043024)	391885.36	3747780.40	0.03595	(16061124)
391883.83	3747768.01	0.03727	(13043024)	391493.56	3748488.26	0.00508	(14083124)
391947.12	3747875.71	0.02988	(16061124)	391983.08	3747875.94	0.03002	(16061124)
391885.46	3747791.74	0.03468	(16061124)	391889.32	3747804.03	0.03394	(16061124)
391887.50	3747815.86	0.03241	(16061124)	391874.76	3747826.10	0.02971	(16061124)
391892.74	3747852.04	0.02946	(16061124)	391892.51	3747880.49	0.02696	(16061124)
392032.89	3747873.67	0.03008	(12041924)	392140.29	3747873.36	0.02985	(16051624)
392233.52	3747864.86	0.02825	(14052424)	392523.19	3747518.42	0.02515	(16101624)
392655.00	3747574.84	0.01474	(15040624)	392733.47	3747870.77	0.00764	(12110824)
391927.56	3747940.84	0.02345	(16061124)	391927.83	3747987.42	0.02017	(16061124)
391940.95	3748045.52	0.01674	(16061124)	391926.76	3748083.27	0.01506	(16061124)
391928.37	3748118.62	0.01384	(12041924)	391927.56	3748149.14	0.01295	(12041924)
391892.49	3747904.69	0.02507	(16061124)	391891.96	3747917.81	0.02409	(16061124)
391891.15	3747931.74	0.02310	(16061124)	391885.26	3747942.98	0.02213	(16061124)
391893.29	3747955.03	0.02167	(16061124)	391893.83	3747978.59	0.02027	(16061124)
391893.03	3747994.39	0.01937	(16061124)	391885.80	3748035.62	0.01718	(16061124)
391893.83	3748088.36	0.01496	(16061124)	391894.63	3748143.78	0.01291	(16061124)

391894.10 3748120.49 0.01373 (16061124) 391894.63
3748155.30 0.01253 (16061124)
391891.15 3748182.87 0.01169 (16061124) 391893.03
3748195.99 0.01134 (12041924)
391927.30 3748191.71 0.01185 (12041924) 391928.64
3748236.15 0.01085 (12041924)
391928.64 3748259.98 0.01036 (12041924) 391894.37
3748207.50 0.01112 (12041924)
391891.15 3748220.09 0.01082 (12041924) 391891.15
3748231.06 0.01061 (12041924)
391891.15 3748243.38 0.01038 (12041924) 391891.15
3748255.70 0.01016 (12041924)
391895.17 3748287.02 0.00965 (12041924) 391895.44
3748311.12 0.00926 (12041924)
391886.07 3748326.91 0.00895 (12041924) 391893.83
3748337.09 0.00885 (12041924)
391896.46 3748353.98 0.00861 (12041924) 391943.47
3748329.02 0.00911 (12041924)
391942.12 3748346.05 0.00883 (12041924) 391935.35
3748361.91 0.00858 (12041924)
391897.02 3748404.40 0.00792 (12041924) 391938.93
3748376.12 0.00836 (12041924)
391932.47 3748387.64 0.00820 (12041924) 391891.74
3748427.33 0.00762 (12041924)

*** 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 , 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_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391929.07	3748405.45	0.00795	(12041924)	391929.40	3748424.21	0.00770	(12041924)
391929.73	3748439.17	0.00751	(12041924)	391928.74	3748454.63	0.00732	(12041924)
391897.00	3748453.15	0.00733	(12041924)	391866.08	3747495.99	0.08581	(12121624)
391854.46	3747480.49	0.07348	(12121624)	391855.46	3747526.86	0.08033	(14121624)
391854.21	3747513.99	0.07816	(12121624)	391855.21	3747538.86	0.08143	(14121624)
391855.46	3747549.85	0.08203	(14121624)	392423.79	3747240.43	0.02599	(16122724)
391889.87	3747651.95	0.07942	(12112924)	391853.95	3747577.01	0.07779	(14121624)

391854.20 3747603.13 0.07029 (12112924) 391854.95
3747615.63 0.06858 (12112924)
391855.57 3747626.38 0.06640 (12112924) 391854.14
3747455.54 0.06326 (12121624)
391853.42 3747443.48 0.05763 (12121624) 391888.71
3747380.11 0.04613c (12122924)
391853.60 3747430.34 0.05219 (12121624) 391842.26
3747485.07 0.06752 (12121624)
391705.13 3747221.17 0.01387c (12122924) 391890.27
3747198.72 0.01783c (12122924)
391791.77 3747248.29 0.01839c
(12122924)

FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1 *** 09/07/23
*** AERMET - VERSION 16216 ***
*** *** 11:34:35

PAGE 11
*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	0.20620c ON 12122524:	AT (392217.30, 3747461.24, 29.00, 29.00, 2.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1 *** 09/07/23
*** AERMET - VERSION 16216 ***
*** *** 11:34:35

PAGE 12
*** 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 1017 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 747 Calm Hours Identified

A Total of 270 Missing Hours Identified (0.62 Percent)

******** FATAL ERROR MESSAGES ********

*** NONE ***

******** WARNING MESSAGES ********

ME W186 128 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used 0.50

ME W187 128 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

****

*** AERMOD Finishes Successfully ***

****

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**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/7/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt5 PM25\14715 Ops
Alt5 PM25.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID PM_2.5
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt5 PM25.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
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   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL2         0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL3         0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL4         0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL5         0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL6         0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL7         0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL8         0.0000201597     5.000    10.435     1.400
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   SRCPARAM VOL12        0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL13        0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL14        0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL15        0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL16        0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL17        0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL18        0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL19        0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL20        0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL21        0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL22        0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL23        0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL24        0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL25        0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL26        0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL27        0.0000201597     5.000    10.435     1.400
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   SRCPARAM VOL30        0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL31        0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL32        0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL33        0.0000201597     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Alt5 PM25.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
```

```
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "14715 OPS ALT5 PM25.AD\24H1GALL.PLT" 31
   SUMMFILE "14715 Ops Alt5 PM25.sum"
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

```
** Lakes Environmental AERMOD MPI
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/7/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt5 PM25\14715 Ops
Alt5 PM25.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID PM_2.5
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt5 PM25.err"
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
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   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
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   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL2         0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL3         0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL4         0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL5         0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL6         0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL7         0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL8         0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL9         0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL10        0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL11        0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL12        0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL13        0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL14        0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL15        0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL16        0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL17        0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL18        0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL19        0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL20        0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL21        0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL22        0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL23        0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL24        0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL25        0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL26        0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL27        0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL28        0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL29        0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL30        0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL31        0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL32        0.0000201597     5.000    10.435     1.400
   SRCPARAM VOL33        0.0000201597     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Alt5 PM25.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
```

```
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "14715 OPS ALT5 PM25.AD\24H1GALL.PLT" 31
   SUMMFILE "14715 Ops Alt5 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     128       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     128       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 *********************************
 *** SETUP Finishes Successfully ***
 *********************************

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       11:39:05

                      PAGE   1
 *** 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    33 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   9818605.0 ;  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:     33 Source(s);       1 Source Group(s); and     105 Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:     33 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) =    10.00 ;  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:   14715 Ops Alt5
 PM25.err
 **File for Summary of Results:   14715 Ops Alt5
 PM25.sum
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***       11:39:05

                     PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.
              URBAN  EMISSION RATE
  SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ
  SOURCE  SCALAR VARY
    ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)             BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

- - - - - - - - - - - - -

VOL1	0	0.20160E-04	391943.2	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL2	0	0.20160E-04	391988.3	3747611.1	29.0	5.00	10.44	1.40
YES								
VOL3	0	0.20160E-04	392033.2	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL4	0	0.20160E-04	392078.1	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL5	0	0.20160E-04	392122.7	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL6	0	0.20160E-04	392167.6	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL7	0	0.20160E-04	392175.8	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL8	0	0.20160E-04	392175.0	3747565.7	29.0	5.00	10.44	1.40
YES								
VOL9	0	0.20160E-04	392129.7	3747566.0	29.0	5.00	10.44	1.40
YES								
VOL10	0	0.20160E-04	392084.7	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL11	0	0.20160E-04	392040.2	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL12	0	0.20160E-04	391995.7	3747566.3	29.0	5.00	10.44	1.40
YES								
VOL13	0	0.20160E-04	391951.4	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL14	0	0.20160E-04	391942.7	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL15	0	0.20160E-04	391942.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL16	0	0.20160E-04	391987.4	3747522.1	29.0	5.00	10.44	1.40
YES								
VOL17	0	0.20160E-04	392031.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL18	0	0.20160E-04	392076.4	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL19	0	0.20160E-04	392121.3	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL20	0	0.20160E-04	392165.8	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL21	0	0.20160E-04	392210.9	3747521.2	29.0	5.00	10.44	1.40
YES								
VOL22	0	0.20160E-04	392219.6	3747557.0	29.0	5.00	10.44	1.40
YES								
VOL23	0	0.20160E-04	392237.2	3747556.6	29.0	5.00	10.44	1.40
YES								
VOL24	0	0.20160E-04	392256.9	3747546.6	29.0	5.00	10.44	1.40
YES								
VOL25	0	0.20160E-04	392256.5	3747502.1	29.0	5.00	10.44	1.40
YES								
VOL26	0	0.20160E-04	392256.3	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL27	0	0.20160E-04	392211.2	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL28	0	0.20160E-04	392167.1	3747484.7	29.0	5.00	10.44	1.40
YES								
VOL29	0	0.20160E-04	392122.1	3747484.9	29.0	5.00	10.44	1.40
YES								
VOL30	0	0.20160E-04	392076.7	3747485.0	29.0	5.00	10.44	1.40
YES								
VOL31	0	0.20160E-04	392032.1	3747485.2	29.0	5.00	10.44	1.40
YES								
VOL32	0	0.20160E-04	391987.1	3747485.9	29.0	5.00	10.44	1.40
YES								

VOL33 0 0.20160E-04 391942.7 3747485.9 29.0 5.00 10.44 1.40
YES

FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1 *** 09/07/23
*** AERMET - VERSION 16216 ***
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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 ,

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 ,

FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1 *** 09/07/23
*** AERMET - VERSION 16216 ***
*** *** 11:39:05

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID URBAN POP SOURCE IDs

9818605. 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 ,

FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1 *** 09/07/23
*** AERMET - VERSION 16216 ***
*** *** 11:39:05

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391891.2, 3747480.4, 29.0, 29.0, 2.0); (391892.0, 3747456.0, 29.0, 29.0, 2.0);
(391965.0, 3747447.6, 29.0, 29.0, 2.0); (391925.4, 3747447.6, 29.0, 29.0, 2.0);
(392089.4, 3747454.7, 29.0, 29.0, 2.0); (392112.8, 3747454.8, 29.0, 29.0, 2.0);
(392033.3, 3747443.0, 29.0, 29.0, 2.0); (392142.4, 3747442.5, 29.0, 29.0, 2.0);
(392336.7, 3747437.7, 29.0, 29.0, 2.0); (392430.0, 3747448.2, 29.0, 29.0, 2.0);
(392412.4, 3747555.7, 29.0, 29.0, 2.0); (392343.8, 3747480.0, 29.0, 29.0, 2.0);
(392217.3, 3747461.2, 29.0, 29.0, 2.0); (392161.5, 3747408.9, 29.0, 29.0, 2.0);
(391879.2, 3747513.2, 29.0, 29.0, 2.0); (391891.6, 3747547.0, 29.0, 29.0, 2.0);
(391891.8, 3747573.7, 29.0, 29.0, 2.0); (391884.4, 3747601.9, 29.0, 29.0, 2.0);
(391891.1, 3747641.8, 29.0, 29.0, 2.0); (391889.3, 3747663.5, 29.0, 29.0, 2.0);
(391883.5, 3747699.9, 29.0, 29.0, 2.0); (391881.9, 3747730.8, 29.0, 29.0, 2.0);
(391884.4, 3747754.5, 29.0, 29.0, 2.0); (391885.4, 3747780.4, 29.0, 29.0, 2.0);
(391883.8, 3747768.0, 29.0, 29.0, 2.0); (391493.6, 3748488.3, 29.0, 29.0, 2.0);
(391947.1, 3747875.7, 29.0, 29.0, 2.0); (391983.1, 3747875.9, 29.0, 29.0, 2.0);
(391885.5, 3747791.7, 29.0, 29.0, 2.0); (391889.3, 3747804.0, 29.0, 29.0, 2.0);
(391887.5, 3747815.9, 29.0, 29.0, 2.0); (391874.8, 3747826.1, 29.0, 29.0, 2.0);
(391892.7, 3747852.0, 29.0, 29.0, 2.0); (391892.5, 3747880.5, 29.0, 29.0, 2.0);
(392032.9, 3747873.7, 29.0, 29.0, 2.0); (392140.3, 3747873.4, 29.0, 29.0, 2.0);
(392233.5, 3747864.9, 29.0, 29.0, 2.0); (392523.2, 3747518.4, 28.3, 28.3, 2.0);
(392655.0, 3747574.8, 28.0, 28.0, 2.0); (392733.5, 3747870.8, 27.6, 27.6, 2.0);
(391927.6, 3747940.8, 29.0, 29.0, 2.0); (391927.8, 3747987.4, 29.0, 29.0, 2.0);
(391941.0, 3748045.5, 29.0, 29.0, 2.0); (391926.8, 3748083.3, 29.0, 29.0, 2.0);
(391928.4, 3748118.6, 29.0, 29.0, 2.0); (391927.6, 3748149.1, 29.0, 29.0, 2.0);
(391892.5, 3747904.7, 29.0, 29.0, 2.0); (391892.0, 3747917.8, 29.0, 29.0, 2.0);
(391891.1, 3747931.7, 29.0, 29.0, 2.0); (391885.3, 3747943.0, 29.0, 29.0, 2.0);
(391893.3, 3747955.0, 29.0, 29.0, 2.0); (391893.8, 3747978.6, 29.0, 29.0, 2.0);
(391893.0, 3747994.4, 29.0, 29.0, 2.0); (391885.8, 3748035.6, 29.0, 29.0, 2.0);
(391893.8, 3748088.4, 29.0, 29.0, 2.0); (391894.6, 3748143.8, 29.0, 29.0, 2.0);
(391894.1, 3748120.5, 29.0, 29.0, 2.0); (391894.6, 3748155.3, 29.0, 29.0, 2.0);
(391891.1, 3748182.9, 29.0, 29.0, 2.0); (391893.0, 3748196.0, 29.0, 29.0, 2.0);
(391927.3, 3748191.7, 29.0, 29.0, 2.0); (391928.6,

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(391928.6, 3748260.0, 29.0, 29.0, 2.0); (391894.4,
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(391891.1, 3748220.1, 29.0, 29.0, 2.0); (391891.1,
3748231.1, 29.0, 29.0, 2.0);
(391891.1, 3748243.4, 29.0, 29.0, 2.0); (391891.1,
3748255.7, 29.0, 29.0, 2.0);
(391895.2, 3748287.0, 29.0, 29.0, 2.0); (391895.4,
3748311.1, 29.0, 29.0, 2.0);
(391886.1, 3748326.9, 29.0, 29.0, 2.0); (391893.8,
3748337.1, 29.0, 29.0, 2.0);
(391896.5, 3748354.0, 29.0, 29.0, 2.0); (391943.5,
3748329.0, 29.0, 29.0, 2.0);
(391942.1, 3748346.0, 29.0, 29.0, 2.0); (391935.3,
3748361.9, 29.0, 29.0, 2.0);
(391897.0, 3748404.4, 29.0, 29.0, 2.0); (391938.9,
3748376.1, 29.0, 29.0, 2.0);
(391932.5, 3748387.6, 29.0, 29.0, 2.0); (391891.7,
3748427.3, 29.0, 29.0, 2.0);
(391929.1, 3748405.4, 29.0, 29.0, 2.0); (391929.4,
3748424.2, 29.0, 29.0, 2.0);
(391929.7, 3748439.2, 29.0, 29.0, 2.0); (391928.7,
3748454.6, 29.0, 29.0, 2.0);
(391897.0, 3748453.1, 29.0, 29.0, 2.0); (391866.1,
3747496.0, 29.0, 29.0, 2.0);
(391854.5, 3747480.5, 29.0, 29.0, 2.0); (391855.5,
3747526.9, 29.0, 29.0, 2.0);
(391854.2, 3747514.0, 29.0, 29.0, 2.0); (391855.2,
3747538.9, 29.0, 29.0, 2.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391855.5, 3747549.8, 29.0, 29.0, 2.0); (392423.8,
3747240.4, 29.0, 29.0, 2.0);
(391889.9, 3747651.9, 29.0, 29.0, 2.0); (391854.0,
3747577.0, 29.0, 29.0, 2.0);
(391854.2, 3747603.1, 29.0, 29.0, 2.0); (391855.0,
3747615.6, 29.0, 29.0, 2.0);
(391855.6, 3747626.4, 29.0, 29.0, 2.0); (391854.1,
3747455.5, 29.0, 29.0, 2.0);
(391853.4, 3747443.5, 29.0, 29.0, 2.0); (391888.7,
3747380.1, 29.0, 29.0, 2.0);
(391853.6, 3747430.3, 29.0, 29.0, 2.0); (391842.3,
3747485.1, 29.0, 29.0, 2.0);
(391705.1, 3747221.2, 29.0, 29.0, 2.0); (391890.3,
3747198.7, 29.0, 29.0, 2.0);
(391791.8, 3747248.3, 29.0, 29.0,
2.0);

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***

(1=YES; 0=NO)

```
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file:
KLGB_V9_ADJU\KLGB_v9.SFC Met
Version: 16216
Profile file:
KLGB_V9_ADJU\KLGB_v9.PFL
Surface format:
FREE

Profile format:
FREE

Surface station no.: 23129 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	-5.3	0.094	-9.000	-9.000	-999.	70.	14.3	0.10	2.68	1.00	1.13	322.	7.9	282.0	2.0
12	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	2.68	1.00	0.00	0.	7.9	281.4	2.0
12	01	01	1	03	-2.5	0.068	-9.000	-9.000	-999.	43.	11.4	0.10	2.68	1.00	0.74	79.	7.9	280.9	2.0
12	01	01	1	04	-3.2	0.075	-9.000	-9.000	-999.	49.	11.7	0.10	2.68	1.00	0.86				

```
137.    7.9  280.9    2.0
12 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.10   2.68   1.00    0.00
0.    7.9  280.4    2.0
12 01 01   1 06   -5.2  0.093 -9.000 -9.000 -999.   68.     14.0  0.10   2.68   1.00    1.11
92.    7.9  279.9    2.0
12 01 01   1 07   -2.3  0.066 -9.000 -9.000 -999.   41.     11.5  0.10   2.68   1.00    0.69
67.    7.9  278.8    2.0
12 01 01   1 08   -1.7  0.060 -9.000 -9.000 -999.   36.     11.4  0.10   2.68   0.54    0.65
91.    7.9  279.9    2.0
12 01 01   1 09   36.2 -9.000 -9.000 -9.000   37. -999. -99999.0  0.10   2.68   0.31    0.00
0.    7.9  283.8    2.0
12 01 01   1 10  108.4  0.139  0.707  0.009  119.  124.     -2.3  0.10   2.68   0.24    0.92
319.    7.9  287.5    2.0
12 01 01   1 11  160.5  0.114  1.137  0.005  334.   93.     -1.0  0.10   2.68   0.21    0.62
23.    7.9  292.5    2.0
12 01 01   1 12  186.7  0.125  1.473  0.005  623.  105.     -1.0  0.10   2.68   0.20    0.69
18.    7.9  295.4    2.0
12 01 01   1 13  186.8  0.130  1.761  0.005 1065.  112.     -1.1  0.10   2.68   0.20    0.74
250.    7.9  297.5    2.0
12 01 01   1 14  161.7  0.150  1.834  0.005 1387.  139.     -1.9  0.10   2.68   0.21    0.96
347.    7.9  300.4    2.0
12 01 01   1 15  105.5  0.243  1.633  0.005 1499.  288.    -12.4  0.10   2.68   0.24    2.11
194.    7.9  295.9    2.0
12 01 01   1 16   32.4  0.211  1.109  0.005 1530.  233.    -26.3  0.10   2.68   0.33    1.98
186.    7.9  295.4    2.0
12 01 01   1 17  -20.5  0.250 -9.000 -9.000 -999.  300.     69.2  0.10   2.68   0.60    2.81
293.    7.9  291.4    2.0
12 01 01   1 18  -25.4  0.257 -9.000 -9.000 -999.  313.     72.8  0.10   2.68   1.00    2.90
301.    7.9  288.1    2.0
12 01 01   1 19  -21.0  0.211 -9.000 -9.000 -999.  233.     49.0  0.10   2.68   1.00    2.40
313.    7.9  286.4    2.0
12 01 01   1 20  -25.7  0.258 -9.000 -9.000 -999.  315.     73.3  0.10   2.68   1.00    2.91
302.    7.9  286.4    2.0
12 01 01   1 21  -22.5  0.225 -9.000 -9.000 -999.  256.     55.7  0.10   2.68   1.00    2.55
306.    7.9  285.4    2.0
12 01 01   1 22   -9.3  0.126 -9.000 -9.000 -999.  111.     19.5  0.10   2.68   1.00    1.48
284.    7.9  285.9    2.0
12 01 01   1 23  -21.4  0.214 -9.000 -9.000 -999.  237.     50.3  0.10   2.68   1.00    2.43
282.    7.9  285.4    2.0
12 01 01   1 24  -30.1  0.300 -9.000 -9.000 -999.  394.     98.9  0.10   2.68   1.00    3.36
300.    7.9  284.2    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  322.    1.13   282.1   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       11:39:05

                      PAGE   9
 *** 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        , 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_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391891.24	3747480.41	0.03890	(12121624)	391892.01	3747456.00	0.03092	(12121624)
391965.04	3747447.61	0.04852c	(12122924)	391925.38	3747447.61	0.03963c	(12122924)
392089.38	3747454.66	0.06815c	(12122524)	392112.83	3747454.85	0.06914c	(12122524)
392033.31	3747443.03	0.05244c	(12122524)	392142.39	3747442.46	0.05600c	(12122524)
392336.71	3747437.69	0.02867	(13122724)	392429.96	3747448.18	0.01477	(13040124)
392412.42	3747555.73	0.01553	(15040624)	392343.77	3747480.03	0.02932	(16101624)
392217.30	3747461.24	0.07673c	(12122524)	392161.48	3747408.94	0.03547m	(15020724)
391879.25	3747513.22	0.03726	(12121624)	391891.65	3747546.98	0.04420	(14121624)
391891.84	3747573.68	0.04394	(14121624)	391884.40	3747601.90	0.03726	(12112924)
391891.08	3747641.76	0.03252	(12112924)	391889.35	3747663.46	0.02667	(12112924)
391883.45	3747699.92	0.01909	(12112924)	391881.92	3747730.82	0.01599	(13043024)
391884.40	3747754.47	0.01470	(13043024)	391885.36	3747780.40	0.01338	(16061124)
391883.83	3747768.01	0.01387	(13043024)	391493.56	3748488.26	0.00189	(14083124)
391947.12	3747875.71	0.01112	(16061124)	391983.08	3747875.94	0.01117	(16061124)
391885.46	3747791.74	0.01290	(16061124)	391889.32	3747804.03	0.01263	(16061124)
391887.50	3747815.86	0.01206	(16061124)	391874.76	3747826.10	0.01106	(16061124)
391892.74	3747852.04	0.01096	(16061124)	391892.51	3747880.49	0.01003	(16061124)
392032.89	3747873.67	0.01119	(12041924)	392140.29	3747873.36	0.01111	(16051624)
392233.52	3747864.86	0.01051	(14052424)	392523.19	3747518.42	0.00936	(16101624)
392655.00	3747574.84	0.00549	(15040624)	392733.47	3747870.77	0.00284	(12110824)
391927.56	3747940.84	0.00872	(16061124)	391927.83	3747987.42	0.00750	(16061124)
391940.95	3748045.52	0.00623	(16061124)	391926.76	3748083.27	0.00560	(16061124)
391928.37	3748118.62	0.00515	(12041924)	391927.56	3748149.14	0.00482	(12041924)
391892.49	3747904.69	0.00933	(16061124)	391891.96	3747917.81	0.00896	(16061124)
391891.15	3747931.74	0.00859	(16061124)	391885.26	3747942.98	0.00823	(16061124)
391893.29	3747955.03	0.00806	(16061124)	391893.83	3747978.59	0.00754	(16061124)
391893.03	3747994.39	0.00721	(16061124)	391885.80	3748035.62	0.00639	(16061124)
391893.83	3748088.36	0.00557	(16061124)	391894.63	3748143.78	0.00480	(16061124)

391894.10 3748120.49 0.00511 (16061124) 391894.63
3748155.30 0.00466 (16061124)
391891.15 3748182.87 0.00435 (16061124) 391893.03
3748195.99 0.00422 (12041924)
391927.30 3748191.71 0.00441 (12041924) 391928.64
3748236.15 0.00404 (12041924)
391928.64 3748259.98 0.00386 (12041924) 391894.37
3748207.50 0.00414 (12041924)
391891.15 3748220.09 0.00403 (12041924) 391891.15
3748231.06 0.00395 (12041924)
391891.15 3748243.38 0.00386 (12041924) 391891.15
3748255.70 0.00378 (12041924)
391895.17 3748287.02 0.00359 (12041924) 391895.44
3748311.12 0.00344 (12041924)
391886.07 3748326.91 0.00333 (12041924) 391893.83
3748337.09 0.00329 (12041924)
391896.46 3748353.98 0.00320 (12041924) 391943.47
3748329.02 0.00339 (12041924)
391942.12 3748346.05 0.00329 (12041924) 391935.35
3748361.91 0.00319 (12041924)
391897.02 3748404.40 0.00295 (12041924) 391938.93
3748376.12 0.00311 (12041924)
391932.47 3748387.64 0.00305 (12041924) 391891.74
3748427.33 0.00284 (12041924)

*** 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 , 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_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391929.07	3748405.45	0.00296	(12041924)	391929.40	3748424.21	0.00286	(12041924)
391929.73	3748439.17	0.00279	(12041924)	391928.74	3748454.63	0.00272	(12041924)
391897.00	3748453.15	0.00273	(12041924)	391866.08	3747495.99	0.03193	(12121624)
391854.46	3747480.49	0.02734	(12121624)	391855.46	3747526.86	0.02989	(14121624)
391854.21	3747513.99	0.02908	(12121624)	391855.21	3747538.86	0.03030	(14121624)
391855.46	3747549.85	0.03052	(14121624)	392423.79	3747240.43	0.00967	(16122724)
391889.87	3747651.95	0.02955	(12112924)	391853.95	3747577.01	0.02894	(14121624)

391854.20 3747603.13 0.02615 (12112924) 391854.95
3747615.63 0.02552 (12112924)
391855.57 3747626.38 0.02471 (12112924) 391854.14
3747455.54 0.02354 (12121624)
391853.42 3747443.48 0.02144 (12121624) 391888.71
3747380.11 0.01716c (12122924)
391853.60 3747430.34 0.01942 (12121624) 391842.26
3747485.07 0.02512 (12121624)
391705.13 3747221.17 0.00516c (12122924) 391890.27
3747198.72 0.00664c (12122924)
391791.77 3747248.29 0.00684c
(12122924)

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	0.07673c ON 12122524:	AT (392217.30, 3747461.24, 29.00, 29.00, 2.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** 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 1017 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 747 Calm Hours Identified

A Total of 270 Missing Hours Identified (0.62 Percent)

******** FATAL ERROR MESSAGES ********

*** NONE ***

******** WARNING MESSAGES ********

ME W186 128 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used 0.50

ME W187 128 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

****

*** AERMOD Finishes Successfully ***

****

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**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/7/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt6 CO\14715 Ops
Alt6 CO.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 1 8
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID CO
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt6 CO.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
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   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.005528787     5.000    10.435     1.400
   SRCPARAM VOL2         0.005528787     5.000    10.435     1.400
   SRCPARAM VOL3         0.005528787     5.000    10.435     1.400
   SRCPARAM VOL4         0.005528787     5.000    10.435     1.400
   SRCPARAM VOL5         0.005528787     5.000    10.435     1.400
   SRCPARAM VOL6         0.005528787     5.000    10.435     1.400
   SRCPARAM VOL7         0.005528787     5.000    10.435     1.400
   SRCPARAM VOL8         0.005528787     5.000    10.435     1.400
   SRCPARAM VOL9         0.005528787     5.000    10.435     1.400
   SRCPARAM VOL10        0.005528787     5.000    10.435     1.400
   SRCPARAM VOL11        0.005528787     5.000    10.435     1.400
   SRCPARAM VOL12        0.005528787     5.000    10.435     1.400
   SRCPARAM VOL13        0.005528787     5.000    10.435     1.400
   SRCPARAM VOL14        0.005528787     5.000    10.435     1.400
   SRCPARAM VOL15        0.005528787     5.000    10.435     1.400
   SRCPARAM VOL16        0.005528787     5.000    10.435     1.400
   SRCPARAM VOL17        0.005528787     5.000    10.435     1.400
   SRCPARAM VOL18        0.005528787     5.000    10.435     1.400
   SRCPARAM VOL19        0.005528787     5.000    10.435     1.400
   SRCPARAM VOL20        0.005528787     5.000    10.435     1.400
   SRCPARAM VOL21        0.005528787     5.000    10.435     1.400
   SRCPARAM VOL22        0.005528787     5.000    10.435     1.400
   SRCPARAM VOL23        0.005528787     5.000    10.435     1.400
   SRCPARAM VOL24        0.005528787     5.000    10.435     1.400
   SRCPARAM VOL25        0.005528787     5.000    10.435     1.400
   SRCPARAM VOL26        0.005528787     5.000    10.435     1.400
   SRCPARAM VOL27        0.005528787     5.000    10.435     1.400
   SRCPARAM VOL28        0.005528787     5.000    10.435     1.400
   SRCPARAM VOL29        0.005528787     5.000    10.435     1.400
   SRCPARAM VOL30        0.005528787     5.000    10.435     1.400
   SRCPARAM VOL31        0.005528787     5.000    10.435     1.400
   SRCPARAM VOL32        0.005528787     5.000    10.435     1.400
   SRCPARAM VOL33        0.005528787     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Alt6 CO.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
```

```
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 8 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14715 OPS ALT6 CO.AD\01H1GALL.PLT" 31
   PLOTFILE 8 ALL 1ST "14715 OPS ALT6 CO.AD\08H1GALL.PLT" 32
   SUMMFILE "14715 Ops Alt6 CO.sum"
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/7/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt6 CO\14715 Ops
Alt6 CO.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 1 8
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID CO
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt6 CO.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
```

```
   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.005528787     5.000    10.435     1.400
   SRCPARAM VOL2         0.005528787     5.000    10.435     1.400
   SRCPARAM VOL3         0.005528787     5.000    10.435     1.400
   SRCPARAM VOL4         0.005528787     5.000    10.435     1.400
   SRCPARAM VOL5         0.005528787     5.000    10.435     1.400
   SRCPARAM VOL6         0.005528787     5.000    10.435     1.400
   SRCPARAM VOL7         0.005528787     5.000    10.435     1.400
   SRCPARAM VOL8         0.005528787     5.000    10.435     1.400
   SRCPARAM VOL9         0.005528787     5.000    10.435     1.400
   SRCPARAM VOL10        0.005528787     5.000    10.435     1.400
   SRCPARAM VOL11        0.005528787     5.000    10.435     1.400
   SRCPARAM VOL12        0.005528787     5.000    10.435     1.400
   SRCPARAM VOL13        0.005528787     5.000    10.435     1.400
   SRCPARAM VOL14        0.005528787     5.000    10.435     1.400
   SRCPARAM VOL15        0.005528787     5.000    10.435     1.400
   SRCPARAM VOL16        0.005528787     5.000    10.435     1.400
   SRCPARAM VOL17        0.005528787     5.000    10.435     1.400
   SRCPARAM VOL18        0.005528787     5.000    10.435     1.400
   SRCPARAM VOL19        0.005528787     5.000    10.435     1.400
   SRCPARAM VOL20        0.005528787     5.000    10.435     1.400
   SRCPARAM VOL21        0.005528787     5.000    10.435     1.400
   SRCPARAM VOL22        0.005528787     5.000    10.435     1.400
   SRCPARAM VOL23        0.005528787     5.000    10.435     1.400
   SRCPARAM VOL24        0.005528787     5.000    10.435     1.400
   SRCPARAM VOL25        0.005528787     5.000    10.435     1.400
   SRCPARAM VOL26        0.005528787     5.000    10.435     1.400
   SRCPARAM VOL27        0.005528787     5.000    10.435     1.400
   SRCPARAM VOL28        0.005528787     5.000    10.435     1.400
   SRCPARAM VOL29        0.005528787     5.000    10.435     1.400
   SRCPARAM VOL30        0.005528787     5.000    10.435     1.400
   SRCPARAM VOL31        0.005528787     5.000    10.435     1.400
   SRCPARAM VOL32        0.005528787     5.000    10.435     1.400
   SRCPARAM VOL33        0.005528787     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Alt6 CO.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
```

```
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 8 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14715 OPS ALT6 CO.AD\01H1GALL.PLT" 31
   PLOTFILE 8 ALL 1ST "14715 OPS ALT6 CO.AD\08H1GALL.PLT" 32
   SUMMFILE "14715 Ops Alt6 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     128       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     128       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 ***********************************
 *** SETUP Finishes Successfully ***
 ***********************************

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        11:48:12

                      PAGE   1
 *** 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    33 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   9818605.0 ;  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:     33 Source(s);       1 Source Group(s); and     105 Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:     33 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) =    10.00 ;  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:   14715 Ops Alt6
 CO.err
 **File for Summary of Results:   14715 Ops Alt6
 CO.sum
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       11:48:12

                      PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.
              URBAN  EMISSION RATE
  SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ
  SOURCE  SCALAR VARY
    ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
```

(METERS) BY

VOL1	0	0.55288E-02	391943.2	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL2	0	0.55288E-02	391988.3	3747611.1	29.0	5.00	10.44	1.40
YES								
VOL3	0	0.55288E-02	392033.2	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL4	0	0.55288E-02	392078.1	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL5	0	0.55288E-02	392122.7	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL6	0	0.55288E-02	392167.6	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL7	0	0.55288E-02	392175.8	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL8	0	0.55288E-02	392175.0	3747565.7	29.0	5.00	10.44	1.40
YES								
VOL9	0	0.55288E-02	392129.7	3747566.0	29.0	5.00	10.44	1.40
YES								
VOL10	0	0.55288E-02	392084.7	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL11	0	0.55288E-02	392040.2	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL12	0	0.55288E-02	391995.7	3747566.3	29.0	5.00	10.44	1.40
YES								
VOL13	0	0.55288E-02	391951.4	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL14	0	0.55288E-02	391942.7	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL15	0	0.55288E-02	391942.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL16	0	0.55288E-02	391987.4	3747522.1	29.0	5.00	10.44	1.40
YES								
VOL17	0	0.55288E-02	392031.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL18	0	0.55288E-02	392076.4	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL19	0	0.55288E-02	392121.3	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL20	0	0.55288E-02	392165.8	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL21	0	0.55288E-02	392210.9	3747521.2	29.0	5.00	10.44	1.40
YES								
VOL22	0	0.55288E-02	392219.6	3747557.0	29.0	5.00	10.44	1.40
YES								
VOL23	0	0.55288E-02	392237.2	3747556.6	29.0	5.00	10.44	1.40
YES								
VOL24	0	0.55288E-02	392256.9	3747546.6	29.0	5.00	10.44	1.40
YES								
VOL25	0	0.55288E-02	392256.5	3747502.1	29.0	5.00	10.44	1.40
YES								
VOL26	0	0.55288E-02	392256.3	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL27	0	0.55288E-02	392211.2	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL28	0	0.55288E-02	392167.1	3747484.7	29.0	5.00	10.44	1.40
YES								
VOL29	0	0.55288E-02	392122.1	3747484.9	29.0	5.00	10.44	1.40
YES								
VOL30	0	0.55288E-02	392076.7	3747485.0	29.0	5.00	10.44	1.40
YES								
VOL31	0	0.55288E-02	392032.1	3747485.2	29.0	5.00	10.44	1.40
YES								

```
 VOL32            0   0.55288E-02  391987.1 3747485.9    29.0     5.00    10.44     1.40
 YES
 VOL33            0   0.55288E-02  391942.7 3747485.9    29.0     5.00    10.44     1.40
 YES
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       11:48:12

                      PAGE   3
 *** 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         ,

              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       ,
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       11:48:12

                      PAGE   4
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                          *** SOURCE IDs DEFINED AS URBAN SOURCES ***

  URBAN ID   URBAN POP                                    SOURCE IDs
  --------   ---------                                    ----------


               9818605.   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       ,
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       11:48:12
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391891.2, 3747480.4, 29.0, 29.0, 2.0); (391892.0, 3747456.0, 29.0, 29.0, 2.0);
(391965.0, 3747447.6, 29.0, 29.0, 2.0); (391925.4, 3747447.6, 29.0, 29.0, 2.0);
(392089.4, 3747454.7, 29.0, 29.0, 2.0); (392112.8, 3747454.8, 29.0, 29.0, 2.0);
(392033.3, 3747443.0, 29.0, 29.0, 2.0); (392142.4, 3747442.5, 29.0, 29.0, 2.0);
(392336.7, 3747437.7, 29.0, 29.0, 2.0); (392430.0, 3747448.2, 29.0, 29.0, 2.0);
(392412.4, 3747555.7, 29.0, 29.0, 2.0); (392343.8, 3747480.0, 29.0, 29.0, 2.0);
(392217.3, 3747461.2, 29.0, 29.0, 2.0); (392161.5, 3747408.9, 29.0, 29.0, 2.0);
(391879.2, 3747513.2, 29.0, 29.0, 2.0); (391891.6, 3747547.0, 29.0, 29.0, 2.0);
(391891.8, 3747573.7, 29.0, 29.0, 2.0); (391884.4, 3747601.9, 29.0, 29.0, 2.0);
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(391883.8, 3747768.0, 29.0, 29.0, 2.0); (391493.6, 3748488.3, 29.0, 29.0, 2.0);
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(391887.5, 3747815.9, 29.0, 29.0, 2.0); (391874.8, 3747826.1, 29.0, 29.0, 2.0);
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(392655.0, 3747574.8, 28.0, 28.0, 2.0); (392733.5, 3747870.8, 27.6, 27.6, 2.0);
(391927.6, 3747940.8, 29.0, 29.0, 2.0); (391927.8, 3747987.4, 29.0, 29.0, 2.0);
(391941.0, 3748045.5, 29.0, 29.0, 2.0); (391926.8, 3748083.3, 29.0, 29.0, 2.0);
(391928.4, 3748118.6, 29.0, 29.0, 2.0); (391927.6, 3748149.1, 29.0, 29.0, 2.0);
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(391891.1, 3747931.7, 29.0, 29.0, 2.0); (391885.3, 3747943.0, 29.0, 29.0, 2.0);
(391893.3, 3747955.0, 29.0, 29.0, 2.0); (391893.8, 3747978.6, 29.0, 29.0, 2.0);
(391893.0, 3747994.4, 29.0, 29.0, 2.0); (391885.8, 3748035.6, 29.0, 29.0, 2.0);
(391893.8, 3748088.4, 29.0, 29.0, 2.0); (391894.6, 3748143.8, 29.0, 29.0, 2.0);
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(391891.1, 3748182.9, 29.0, 29.0, 2.0); (391893.0,

3748196.0, 29.0, 29.0, 2.0);
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(391928.6, 3748260.0, 29.0, 29.0, 2.0); (391894.4,
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3748255.7, 29.0, 29.0, 2.0);
(391895.2, 3748287.0, 29.0, 29.0, 2.0); (391895.4,
3748311.1, 29.0, 29.0, 2.0);
(391886.1, 3748326.9, 29.0, 29.0, 2.0); (391893.8,
3748337.1, 29.0, 29.0, 2.0);
(391896.5, 3748354.0, 29.0, 29.0, 2.0); (391943.5,
3748329.0, 29.0, 29.0, 2.0);
(391942.1, 3748346.0, 29.0, 29.0, 2.0); (391935.3,
3748361.9, 29.0, 29.0, 2.0);
(391897.0, 3748404.4, 29.0, 29.0, 2.0); (391938.9,
3748376.1, 29.0, 29.0, 2.0);
(391932.5, 3748387.6, 29.0, 29.0, 2.0); (391891.7,
3748427.3, 29.0, 29.0, 2.0);
(391929.1, 3748405.4, 29.0, 29.0, 2.0); (391929.4,
3748424.2, 29.0, 29.0, 2.0);
(391929.7, 3748439.2, 29.0, 29.0, 2.0); (391928.7,
3748454.6, 29.0, 29.0, 2.0);
(391897.0, 3748453.1, 29.0, 29.0, 2.0); (391866.1,
3747496.0, 29.0, 29.0, 2.0);
(391854.5, 3747480.5, 29.0, 29.0, 2.0); (391855.5,
3747526.9, 29.0, 29.0, 2.0);
(391854.2, 3747514.0, 29.0, 29.0, 2.0); (391855.2,
3747538.9, 29.0, 29.0, 2.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391855.5, 3747549.8, 29.0, 29.0, 2.0); (392423.8,
3747240.4, 29.0, 29.0, 2.0);
(391889.9, 3747651.9, 29.0, 29.0, 2.0); (391854.0,
3747577.0, 29.0, 29.0, 2.0);
(391854.2, 3747603.1, 29.0, 29.0, 2.0); (391855.0,
3747615.6, 29.0, 29.0, 2.0);
(391855.6, 3747626.4, 29.0, 29.0, 2.0); (391854.1,
3747455.5, 29.0, 29.0, 2.0);
(391853.4, 3747443.5, 29.0, 29.0, 2.0); (391888.7,
3747380.1, 29.0, 29.0, 2.0);
(391853.6, 3747430.3, 29.0, 29.0, 2.0); (391842.3,
3747485.1, 29.0, 29.0, 2.0);
(391705.1, 3747221.2, 29.0, 29.0, 2.0); (391890.3,
3747198.7, 29.0, 29.0, 2.0);
(391791.8, 3747248.3, 29.0, 29.0,
2.0);

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

```
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file:
KLGB_V9_ADJU\KLGB_v9.SFC Met
Version: 16216
Profile file:
KLGB_V9_ADJU\KLGB_v9.PFL
Surface format:
FREE

Profile format:
FREE

Surface station no.: 23129 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	-5.3	0.094	-9.000	-9.000	-999.	70.	14.3	0.10	2.68	1.00	1.13	322.	7.9	282.0	2.0
12	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	2.68	1.00	0.00	0.	7.9	281.4	2.0
12	01	01	1	03	-2.5	0.068	-9.000	-9.000	-999.	43.	11.4	0.10	2.68	1.00	0.74				

```
 79.    7.9  280.9    2.0
 12 01 01   1 04   -3.2  0.075 -9.000 -9.000 -999.   49.     11.7  0.10   2.68   1.00    0.86
 137.    7.9  280.9    2.0
 12 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.10   2.68   1.00    0.00
 0.    7.9  280.4    2.0
 12 01 01   1 06   -5.2  0.093 -9.000 -9.000 -999.   68.     14.0  0.10   2.68   1.00    1.11
 92.    7.9  279.9    2.0
 12 01 01   1 07   -2.3  0.066 -9.000 -9.000 -999.   41.     11.5  0.10   2.68   1.00    0.69
 67.    7.9  278.8    2.0
 12 01 01   1 08   -1.7  0.060 -9.000 -9.000 -999.   36.     11.4  0.10   2.68   0.54    0.65
 91.    7.9  279.9    2.0
 12 01 01   1 09   36.2 -9.000 -9.000 -9.000   37. -999. -99999.0  0.10   2.68   0.31    0.00
 0.    7.9  283.8    2.0
 12 01 01   1 10  108.4  0.139  0.707  0.009  119.  124.     -2.3  0.10   2.68   0.24    0.92
 319.    7.9  287.5    2.0
 12 01 01   1 11  160.5  0.114  1.137  0.005  334.   93.     -1.0  0.10   2.68   0.21    0.62
 23.    7.9  292.5    2.0
 12 01 01   1 12  186.7  0.125  1.473  0.005  623.  105.     -1.0  0.10   2.68   0.20    0.69
 18.    7.9  295.4    2.0
 12 01 01   1 13  186.8  0.130  1.761  0.005 1065.  112.     -1.1  0.10   2.68   0.20    0.74
 250.    7.9  297.5    2.0
 12 01 01   1 14  161.7  0.150  1.834  0.005 1387.  139.     -1.9  0.10   2.68   0.21    0.96
 347.    7.9  300.4    2.0
 12 01 01   1 15  105.5  0.243  1.633  0.005 1499.  288.    -12.4  0.10   2.68   0.24    2.11
 194.    7.9  295.9    2.0
 12 01 01   1 16   32.4  0.211  1.109  0.005 1530.  233.    -26.3  0.10   2.68   0.33    1.98
 186.    7.9  295.4    2.0
 12 01 01   1 17  -20.5  0.250 -9.000 -9.000 -999.  300.     69.2  0.10   2.68   0.60    2.81
 293.    7.9  291.4    2.0
 12 01 01   1 18  -25.4  0.257 -9.000 -9.000 -999.  313.     72.8  0.10   2.68   1.00    2.90
 301.    7.9  288.1    2.0
 12 01 01   1 19  -21.0  0.211 -9.000 -9.000 -999.  233.     49.0  0.10   2.68   1.00    2.40
 313.    7.9  286.4    2.0
 12 01 01   1 20  -25.7  0.258 -9.000 -9.000 -999.  315.     73.3  0.10   2.68   1.00    2.91
 302.    7.9  286.4    2.0
 12 01 01   1 21  -22.5  0.225 -9.000 -9.000 -999.  256.     55.7  0.10   2.68   1.00    2.55
 306.    7.9  285.4    2.0
 12 01 01   1 22   -9.3  0.126 -9.000 -9.000 -999.  111.     19.5  0.10   2.68   1.00    1.48
 284.    7.9  285.9    2.0
 12 01 01   1 23  -21.4  0.214 -9.000 -9.000 -999.  237.     50.3  0.10   2.68   1.00    2.43
 282.    7.9  285.4    2.0
 12 01 01   1 24  -30.1  0.300 -9.000 -9.000 -999.  394.     98.9  0.10   2.68   1.00    3.36
 300.    7.9  284.2    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  322.    1.13   282.1   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       11:48:12

                      PAGE   9
 *** 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)
391891.24	3747480.41	30.56593	(13041207)	391892.01	3747456.00	32.55725	(13041207)
391965.04	3747447.61	36.26281	(13041207)	391925.38	3747447.61	35.72693	(13041207)
392089.38	3747454.66	36.89047	(13041207)	392112.83	3747454.85	35.60039	(13041207)
392033.31	3747443.03	32.33491	(13041207)	392142.39	3747442.46	29.33501	(13041207)
392336.71	3747437.69	20.59750	(12122516)	392429.96	3747448.18	11.89507	(12122516)
392412.42	3747555.73	9.58845	(15011116)	392343.77	3747480.03	23.42514	(12122516)
392217.30	3747461.24	33.57602	(12071106)	392161.48	3747408.94	15.34730	(12071106)
391879.25	3747513.22	23.43366	(13041207)	391891.65	3747546.98	25.17929	(13110408)
391891.84	3747573.68	26.57922	(13110408)	391884.40	3747601.90	18.90534	(13110408)
391891.08	3747641.76	18.00038	(16021717)	391889.35	3747663.46	15.32542	(12112916)
391883.45	3747699.92	11.47137	(12112916)	391881.92	3747730.82	9.19414	(12112916)
391884.40	3747754.47	7.93454	(12112916)	391885.36	3747780.40	6.85617	(12112916)
391883.83	3747768.01	7.34469	(12112916)	391493.56	3748488.26	1.23974	(14091424)
391947.12	3747875.71	6.05956	(12020617)	391983.08	3747875.94	6.82622	(12020617)
391885.46	3747791.74	6.49437	(15091424)	391889.32	3747804.03	6.21108	(14091424)
391887.50	3747815.86	5.94265	(14091424)	391874.76	3747826.10	5.63908	(12082022)
391892.74	3747852.04	5.29896	(15072023)	391892.51	3747880.49	4.86953	(15091120)
392032.89	3747873.67	7.29252	(12020617)	392140.29	3747873.36	7.08819	(12020617)
392233.52	3747864.86	6.88680	(14041207)	392523.19	3747518.42	5.47741	(14091722)
392655.00	3747574.84	3.54849	(13092022)	392733.47	3747870.77	2.37896	(16092618)
391927.56	3747940.84	4.38508	(12020617)	391927.83	3747987.42	3.86081	(12020617)
391940.95	3748045.52	3.55090	(12020617)	391926.76	3748083.27	3.06175	(12020617)
391928.37	3748118.62	2.86228	(12020617)	391927.56	3748149.14	2.68256	(12020617)
391892.49	3747904.69	4.55516	(15091120)	391891.96	3747917.81	4.39207	(15091120)
391891.15	3747931.74	4.22571	(15091120)	391885.26	3747942.98	4.08211	(15091120)
391893.29	3747955.03	3.97040	(15091120)	391893.83	3747978.59	3.73315	(15091003)
391893.03	3747994.39	3.58974	(15091003)	391885.80	3748035.62	3.24097	(15091003)

*** 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)
391893.83	3748088.36	2.88428	(14080322)	391894.63	3748143.78	2.58626	(14080322)
391894.10	3748120.49	2.70690	(14080322)	391894.63	3748155.30	2.52849	(14080322)
391891.15	3748182.87	2.39480	(15081805)	391893.03	3748195.99	2.33920	(15081805)
391927.30	3748191.71	2.46917	(12020617)	391928.64	3748236.15	2.28633	(12020617)
391928.64	3748259.98	2.19101	(12020617)	391894.37	3748207.50	2.29078	(15081805)
391891.15	3748220.09	2.23690	(15081805)	391891.15	3748231.06	2.19271	(15081805)
391891.15	3748243.38	2.14431	(15081805)	391891.15	3748255.70	2.09854	(15081802)
391895.17	3748287.02	1.99485	(15081802)	391895.44	3748311.12	1.91680	(15081802)
391886.07	3748326.91	1.86535	(15081802)	391893.83	3748337.09	1.83675	(15081802)
391896.46	3748353.98	1.78979	(13052920)	391943.47	3748329.02	2.02486	(12020617)
391942.12	3748346.05	1.95931	(12020617)	391935.35	3748361.91	1.87534	(12020617)
391897.02	3748404.40	1.66052	(13052920)	391938.93	3748376.12	1.84749	(12020617)
391932.47	3748387.64	1.78422	(12020617)	391891.74	3748427.33	1.60444	(13052920)
391929.07	3748405.45	1.71888	(12020617)	391929.40	3748424.21	1.66976	(12020617)
391929.73	3748439.17	1.63218	(12020617)	391928.74	3748454.63	1.58964	(12020617)
391897.00	3748453.15	1.54938	(15073104)	391866.08	3747495.99	20.42836	(13041207)
391854.46	3747480.49	18.43295	(13041207)	391855.46	3747526.86	18.66468	(13110408)
391854.21	3747513.99	18.03282	(13110408)	391855.21	3747538.86	19.03116	(13110408)
391855.46	3747549.85	19.41932	(13110408)	392423.79	3747240.43	4.55995	(15090824)

*** 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 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391891.24	3747480.41	13.97136	(13012408)	391892.01	3747456.00	11.97700	(12121624)
391965.04	3747447.61	19.43112	(14021308)	391925.38	3747447.61	15.05354	(14021308)
392089.38	3747454.66	26.61227	(14021308)	392112.83	3747454.85	26.88919	(14021308)
392033.31	3747443.03	21.03297	(14021308)	392142.39	3747442.46	21.41319	(14021308)
392336.71	3747437.69	11.45019m	(12050224)	392429.96	3747448.18	6.20329	(16101608)
392412.42	3747555.73	7.51157	(12110824)	392343.77	3747480.03	11.21530	(16101608)
392217.30	3747461.24	29.52561	(14021308)	392161.48	3747408.94	13.59699	(14021308)
391879.25	3747513.22	13.91623	(14120308)	391891.65	3747546.98	16.55960	(14021308)
391891.84	3747573.68	16.27430	(14021308)	391884.40	3747601.90	13.97984	(13021808)
391891.08	3747641.76	12.82174	(13052508)	391889.35	3747663.46	10.79109	(13021908)
391883.45	3747699.92	8.12136	(13021908)	391881.92	3747730.82	6.78018	(15090108)
391884.40	3747754.47	6.21740	(13091724)	391885.36	3747780.40	5.68798	(13091724)

391883.83	3747768.01	5.91288	(13091724)	391493.56	
3748488.26	0.96708	(13091724)			
391947.12	3747875.71	4.31335	(15082008)	391983.08	
3747875.94	4.42346	(13041424)			
391885.46	3747791.74	5.46768	(13091724)	391889.32	
3747804.03	5.28527	(13091724)			
391887.50	3747815.86	5.05108	(13091724)	391874.76	
3747826.10	4.75306	(13091724)			
391892.74	3747852.04	4.48851	(13091724)	391892.51	
3747880.49	4.06399	(13091724)			
392032.89	3747873.67	4.58179	(13041424)	392140.29	
3747873.36	4.28577	(12042924)			
392233.52	3747864.86	4.44302	(12042924)	392523.19	
3747518.42	4.02237	(15091524)			
392655.00	3747574.84	2.79705	(12110824)	392733.47	
3747870.77	1.54939	(12041224)			
391927.56	3747940.84	3.41650	(15082008)	391927.83	
3747987.42	2.93651	(15082008)			
391940.95	3748045.52	2.61275	(13041424)	391926.76	
3748083.27	2.35716	(13041424)			
391928.37	3748118.62	2.19337	(13041424)	391927.56	
3748149.14	2.05909	(13041424)			
391892.49	3747904.69	3.73746	(13091724)	391891.96	
3747917.81	3.57178	(13091724)			
391891.15	3747931.74	3.42212	(15082008)	391885.26	
3747942.98	3.28629	(15082008)			
391893.29	3747955.03	3.20509	(15082008)	391893.83	
3747978.59	2.99485	(15082008)			
391893.03	3747994.39	2.86067	(15082008)	391885.80	
3748035.62	2.54118	(15082008)			
391893.83	3748088.36	2.20378	(13041424)	391894.63	
3748143.78	1.99429	(13041424)			
391894.10	3748120.49	2.07848	(13041424)	391894.63	
3748155.30	1.95337	(13041424)			
391891.15	3748182.87	1.85082	(13041424)	391893.03	
3748195.99	1.81349	(13041424)			
391927.30	3748191.71	1.89197	(13041424)	391928.64	
3748236.15	1.73830	(13041424)			
391928.64	3748259.98	1.66213	(13041424)	391894.37	
3748207.50	1.78038	(13041424)			
391891.15	3748220.09	1.73534	(13041424)	391891.15	
3748231.06	1.70307	(13041424)			
391891.15	3748243.38	1.66775	(13041424)	391891.15	
3748255.70	1.63336	(13041424)			
391895.17	3748287.02	1.55489	(13041424)	391895.44	
3748311.12	1.49382	(13041424)			
391886.07	3748326.91	1.44663	(13041424)	391893.83	
3748337.09	1.42994	(13041424)			
391896.46	3748353.98	1.39293	(13041424)	391943.47	
3748329.02	1.46519	(13041424)			
391942.12	3748346.05	1.42089	(13041424)	391935.35	
3748361.91	1.38274	(13041424)			
391897.02	3748404.40	1.28473	(13041424)	391938.93	
3748376.12	1.34781	(13041424)			
391932.47	3748387.64	1.32277	(13041424)	391891.74	
3748427.33	1.23779	(13041424)			

*** 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 (M)	CONC	(YYMMDDHH)
391929.07	3748405.45	1.28396	(13041424)	391929.40	3748424.21	1.24405	(13041424)
391929.73	3748439.17	1.21340	(13041424)	391928.74	3748454.63	1.18328	(13041424)
391897.00	3748453.15	1.19027	(13041424)	391866.08	3747495.99	11.93350	(13012408)
391854.46	3747480.49	10.67920	(13012408)	391855.46	3747526.86	11.72877	(14120308)
391854.21	3747513.99	11.43670	(14120308)	391855.21	3747538.86	11.76051	(14113008)
391855.46	3747549.85	12.00862	(14113008)	392423.79	3747240.43	4.19077c	(12120424)
391889.87	3747651.95	11.82387	(13052508)	391853.95	3747577.01	11.66973	(14113008)
391854.20	3747603.13	10.82862	(13021808)	391854.95	3747615.63	10.59642	(13021808)
391855.57	3747626.38	10.23898	(13021808)	391854.14	3747455.54	9.51145	(13012408)
391853.42	3747443.48	8.71992	(12121624)	391888.71	3747380.11	6.61789	(12120908)
391853.60	3747430.34	8.15834	(12121624)	391842.26	3747485.07	9.93311	(13012408)
391705.13	3747221.17	2.40142	(12120908)	391890.27	3747198.72	2.71229	(16121008)
391791.77	3747248.29	2.95369	(12120908)				

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF CO IN
MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID

ALL HIGH 1ST HIGH VALUE IS 36.89047 ON 13041207: AT (392089.38, 3747454.66, 29.00, 29.00, 2.00) DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** THE SUMMARY OF HIGHEST 8-HR RESULTS ***

** CONC OF CO IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE GRID-ID

ALL HIGH 1ST HIGH VALUE IS 29.52561 ON 14021308: AT (392217.30, 3747461.24, 29.00, 29.00, 2.00) DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** 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 1017 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 747 Calm Hours Identified

A Total of 270 Missing Hours Identified (0.62 Percent)

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********

```
ME W186     128       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187     128       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

   ************************************
   *** AERMOD Finishes Successfully ***
   ************************************
```

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/7/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt6 NOX\14715 Ops
Alt6 NOX.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 1
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID NOX
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt6 NOX.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
```

```
   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL2         0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL3         0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL4         0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL5         0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL6         0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL7         0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL8         0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL9         0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL10        0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL11        0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL12        0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL13        0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL14        0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL15        0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL16        0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL17        0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL18        0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL19        0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL20        0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL21        0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL22        0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL23        0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL24        0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL25        0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL26        0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL27        0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL28        0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL29        0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL30        0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL31        0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL32        0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL33        0.0002923151     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Alt6 NOX.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
```

```
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14715 OPS ALT6 NOX.AD\01H1GALL.PLT" 31
   SUMMFILE "14715 Ops Alt6 NOX.sum"
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

```
** Lakes Environmental AERMOD MPI
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/7/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt6 NOX\14715 Ops
Alt6 NOX.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 1
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID NOX
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt6 NOX.err"
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
```

```
   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL2         0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL3         0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL4         0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL5         0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL6         0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL7         0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL8         0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL9         0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL10        0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL11        0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL12        0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL13        0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL14        0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL15        0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL16        0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL17        0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL18        0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL19        0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL20        0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL21        0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL22        0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL23        0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL24        0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL25        0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL26        0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL27        0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL28        0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL29        0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL30        0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL31        0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL32        0.0002923151     5.000    10.435     1.400
   SRCPARAM VOL33        0.0002923151     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Alt6 NOX.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
```

```
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14715 OPS ALT6 NOX.AD\01H1GALL.PLT" 31
   SUMMFILE "14715 Ops Alt6 NOX.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     128       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     128       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 **********************************
 *** SETUP Finishes Successfully ***
 **********************************

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        11:54:08

                      PAGE   1
 *** 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    33 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   9818605.0 ;  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:     33 Source(s);       1 Source Group(s); and     105 Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:     33 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) =    10.00 ;  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:   14715 Ops Alt6
 NOX.err
 **File for Summary of Results:   14715 Ops Alt6
 NOX.sum
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        11:54:08

                      PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.
              URBAN  EMISSION RATE
  SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ
  SOURCE  SCALAR VARY
    ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

- - - - - - - - - - - - -

VOL1	0	0.29232E-03	391943.2	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL2	0	0.29232E-03	391988.3	3747611.1	29.0	5.00	10.44	1.40
YES								
VOL3	0	0.29232E-03	392033.2	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL4	0	0.29232E-03	392078.1	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL5	0	0.29232E-03	392122.7	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL6	0	0.29232E-03	392167.6	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL7	0	0.29232E-03	392175.8	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL8	0	0.29232E-03	392175.0	3747565.7	29.0	5.00	10.44	1.40
YES								
VOL9	0	0.29232E-03	392129.7	3747566.0	29.0	5.00	10.44	1.40
YES								
VOL10	0	0.29232E-03	392084.7	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL11	0	0.29232E-03	392040.2	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL12	0	0.29232E-03	391995.7	3747566.3	29.0	5.00	10.44	1.40
YES								
VOL13	0	0.29232E-03	391951.4	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL14	0	0.29232E-03	391942.7	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL15	0	0.29232E-03	391942.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL16	0	0.29232E-03	391987.4	3747522.1	29.0	5.00	10.44	1.40
YES								
VOL17	0	0.29232E-03	392031.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL18	0	0.29232E-03	392076.4	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL19	0	0.29232E-03	392121.3	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL20	0	0.29232E-03	392165.8	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL21	0	0.29232E-03	392210.9	3747521.2	29.0	5.00	10.44	1.40
YES								
VOL22	0	0.29232E-03	392219.6	3747557.0	29.0	5.00	10.44	1.40
YES								
VOL23	0	0.29232E-03	392237.2	3747556.6	29.0	5.00	10.44	1.40
YES								
VOL24	0	0.29232E-03	392256.9	3747546.6	29.0	5.00	10.44	1.40
YES								
VOL25	0	0.29232E-03	392256.5	3747502.1	29.0	5.00	10.44	1.40
YES								
VOL26	0	0.29232E-03	392256.3	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL27	0	0.29232E-03	392211.2	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL28	0	0.29232E-03	392167.1	3747484.7	29.0	5.00	10.44	1.40
YES								
VOL29	0	0.29232E-03	392122.1	3747484.9	29.0	5.00	10.44	1.40
YES								
VOL30	0	0.29232E-03	392076.7	3747485.0	29.0	5.00	10.44	1.40
YES								
VOL31	0	0.29232E-03	392032.1	3747485.2	29.0	5.00	10.44	1.40
YES								
VOL32	0	0.29232E-03	391987.1	3747485.9	29.0	5.00	10.44	1.40
YES								

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
9818605.	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 ,

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391891.2, 3747480.4, 29.0, 29.0, 2.0); (391892.0, 3747456.0, 29.0, 29.0, 2.0);
(391965.0, 3747447.6, 29.0, 29.0, 2.0); (391925.4, 3747447.6, 29.0, 29.0, 2.0);
(392089.4, 3747454.7, 29.0, 29.0, 2.0); (392112.8, 3747454.8, 29.0, 29.0, 2.0);
(392033.3, 3747443.0, 29.0, 29.0, 2.0); (392142.4, 3747442.5, 29.0, 29.0, 2.0);
(392336.7, 3747437.7, 29.0, 29.0, 2.0); (392430.0, 3747448.2, 29.0, 29.0, 2.0);
(392412.4, 3747555.7, 29.0, 29.0, 2.0); (392343.8, 3747480.0, 29.0, 29.0, 2.0);
(392217.3, 3747461.2, 29.0, 29.0, 2.0); (392161.5, 3747408.9, 29.0, 29.0, 2.0);
(391879.2, 3747513.2, 29.0, 29.0, 2.0); (391891.6, 3747547.0, 29.0, 29.0, 2.0);
(391891.8, 3747573.7, 29.0, 29.0, 2.0); (391884.4, 3747601.9, 29.0, 29.0, 2.0);
(391891.1, 3747641.8, 29.0, 29.0, 2.0); (391889.3, 3747663.5, 29.0, 29.0, 2.0);
(391883.5, 3747699.9, 29.0, 29.0, 2.0); (391881.9, 3747730.8, 29.0, 29.0, 2.0);
(391884.4, 3747754.5, 29.0, 29.0, 2.0); (391885.4, 3747780.4, 29.0, 29.0, 2.0);
(391883.8, 3747768.0, 29.0, 29.0, 2.0); (391493.6, 3748488.3, 29.0, 29.0, 2.0);
(391947.1, 3747875.7, 29.0, 29.0, 2.0); (391983.1, 3747875.9, 29.0, 29.0, 2.0);
(391885.5, 3747791.7, 29.0, 29.0, 2.0); (391889.3, 3747804.0, 29.0, 29.0, 2.0);
(391887.5, 3747815.9, 29.0, 29.0, 2.0); (391874.8, 3747826.1, 29.0, 29.0, 2.0);
(391892.7, 3747852.0, 29.0, 29.0, 2.0); (391892.5, 3747880.5, 29.0, 29.0, 2.0);
(392032.9, 3747873.7, 29.0, 29.0, 2.0); (392140.3, 3747873.4, 29.0, 29.0, 2.0);
(392233.5, 3747864.9, 29.0, 29.0, 2.0); (392523.2, 3747518.4, 28.3, 28.3, 2.0);
(392655.0, 3747574.8, 28.0, 28.0, 2.0); (392733.5, 3747870.8, 27.6, 27.6, 2.0);
(391927.6, 3747940.8, 29.0, 29.0, 2.0); (391927.8, 3747987.4, 29.0, 29.0, 2.0);
(391941.0, 3748045.5, 29.0, 29.0, 2.0); (391926.8, 3748083.3, 29.0, 29.0, 2.0);
(391928.4, 3748118.6, 29.0, 29.0, 2.0); (391927.6, 3748149.1, 29.0, 29.0, 2.0);
(391892.5, 3747904.7, 29.0, 29.0, 2.0); (391892.0, 3747917.8, 29.0, 29.0, 2.0);
(391891.1, 3747931.7, 29.0, 29.0, 2.0); (391885.3, 3747943.0, 29.0, 29.0, 2.0);
(391893.3, 3747955.0, 29.0, 29.0, 2.0); (391893.8, 3747978.6, 29.0, 29.0, 2.0);
(391893.0, 3747994.4, 29.0, 29.0, 2.0); (391885.8, 3748035.6, 29.0, 29.0, 2.0);
(391893.8, 3748088.4, 29.0, 29.0, 2.0); (391894.6, 3748143.8, 29.0, 29.0, 2.0);
(391894.1, 3748120.5, 29.0, 29.0, 2.0); (391894.6, 3748155.3, 29.0, 29.0, 2.0);
(391891.1, 3748182.9, 29.0, 29.0, 2.0); (391893.0, 3748196.0, 29.0, 29.0, 2.0);
(391927.3, 3748191.7, 29.0, 29.0, 2.0); (391928.6,

3748236.1, 29.0, 29.0, 2.0);
(391928.6, 3748260.0, 29.0, 29.0, 2.0); (391894.4,
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(391891.1, 3748220.1, 29.0, 29.0, 2.0); (391891.1,
3748231.1, 29.0, 29.0, 2.0);
(391891.1, 3748243.4, 29.0, 29.0, 2.0); (391891.1,
3748255.7, 29.0, 29.0, 2.0);
(391895.2, 3748287.0, 29.0, 29.0, 2.0); (391895.4,
3748311.1, 29.0, 29.0, 2.0);
(391886.1, 3748326.9, 29.0, 29.0, 2.0); (391893.8,
3748337.1, 29.0, 29.0, 2.0);
(391896.5, 3748354.0, 29.0, 29.0, 2.0); (391943.5,
3748329.0, 29.0, 29.0, 2.0);
(391942.1, 3748346.0, 29.0, 29.0, 2.0); (391935.3,
3748361.9, 29.0, 29.0, 2.0);
(391897.0, 3748404.4, 29.0, 29.0, 2.0); (391938.9,
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(391932.5, 3748387.6, 29.0, 29.0, 2.0); (391891.7,
3748427.3, 29.0, 29.0, 2.0);
(391929.1, 3748405.4, 29.0, 29.0, 2.0); (391929.4,
3748424.2, 29.0, 29.0, 2.0);
(391929.7, 3748439.2, 29.0, 29.0, 2.0); (391928.7,
3748454.6, 29.0, 29.0, 2.0);
(391897.0, 3748453.1, 29.0, 29.0, 2.0); (391866.1,
3747496.0, 29.0, 29.0, 2.0);
(391854.5, 3747480.5, 29.0, 29.0, 2.0); (391855.5,
3747526.9, 29.0, 29.0, 2.0);
(391854.2, 3747514.0, 29.0, 29.0, 2.0); (391855.2,
3747538.9, 29.0, 29.0, 2.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391855.5, 3747549.8, 29.0, 29.0, 2.0); (392423.8,
3747240.4, 29.0, 29.0, 2.0);
(391889.9, 3747651.9, 29.0, 29.0, 2.0); (391854.0,
3747577.0, 29.0, 29.0, 2.0);
(391854.2, 3747603.1, 29.0, 29.0, 2.0); (391855.0,
3747615.6, 29.0, 29.0, 2.0);
(391855.6, 3747626.4, 29.0, 29.0, 2.0); (391854.1,
3747455.5, 29.0, 29.0, 2.0);
(391853.4, 3747443.5, 29.0, 29.0, 2.0); (391888.7,
3747380.1, 29.0, 29.0, 2.0);
(391853.6, 3747430.3, 29.0, 29.0, 2.0); (391842.3,
3747485.1, 29.0, 29.0, 2.0);
(391705.1, 3747221.2, 29.0, 29.0, 2.0); (391890.3,
3747198.7, 29.0, 29.0, 2.0);
(391791.8, 3747248.3, 29.0, 29.0,
2.0);

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***

(1=YES; 0=NO)

```
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file:
KLGB_V9_ADJU\KLGB_v9.SFC Met
Version: 16216
Profile file:
KLGB_V9_ADJU\KLGB_v9.PFL
Surface format:
FREE

Profile format:
FREE

Surface station no.: 23129 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	-5.3	0.094	-9.000	-9.000	-999.	70.	14.3	0.10	2.68	1.00	1.13	322.	7.9	282.0	2.0
12	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	2.68	1.00	0.00	0.	7.9	281.4	2.0
12	01	01	1	03	-2.5	0.068	-9.000	-9.000	-999.	43.	11.4	0.10	2.68	1.00	0.74	79.	7.9	280.9	2.0
12	01	01	1	04	-3.2	0.075	-9.000	-9.000	-999.	49.	11.7	0.10	2.68	1.00	0.86				

```
137.    7.9  280.9    2.0
12 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.10   2.68   1.00    0.00
0.    7.9  280.4    2.0
12 01 01   1 06   -5.2  0.093 -9.000 -9.000 -999.   68.     14.0  0.10   2.68   1.00    1.11
92.    7.9  279.9    2.0
12 01 01   1 07   -2.3  0.066 -9.000 -9.000 -999.   41.     11.5  0.10   2.68   1.00    0.69
67.    7.9  278.8    2.0
12 01 01   1 08   -1.7  0.060 -9.000 -9.000 -999.   36.     11.4  0.10   2.68   0.54    0.65
91.    7.9  279.9    2.0
12 01 01   1 09   36.2 -9.000 -9.000 -9.000   37. -999. -99999.0  0.10   2.68   0.31    0.00
0.    7.9  283.8    2.0
12 01 01   1 10  108.4  0.139  0.707  0.009  119.  124.     -2.3  0.10   2.68   0.24    0.92
319.    7.9  287.5    2.0
12 01 01   1 11  160.5  0.114  1.137  0.005  334.   93.     -1.0  0.10   2.68   0.21    0.62
23.    7.9  292.5    2.0
12 01 01   1 12  186.7  0.125  1.473  0.005  623.  105.     -1.0  0.10   2.68   0.20    0.69
18.    7.9  295.4    2.0
12 01 01   1 13  186.8  0.130  1.761  0.005 1065.  112.     -1.1  0.10   2.68   0.20    0.74
250.    7.9  297.5    2.0
12 01 01   1 14  161.7  0.150  1.834  0.005 1387.  139.     -1.9  0.10   2.68   0.21    0.96
347.    7.9  300.4    2.0
12 01 01   1 15  105.5  0.243  1.633  0.005 1499.  288.    -12.4  0.10   2.68   0.24    2.11
194.    7.9  295.9    2.0
12 01 01   1 16   32.4  0.211  1.109  0.005 1530.  233.    -26.3  0.10   2.68   0.33    1.98
186.    7.9  295.4    2.0
12 01 01   1 17  -20.5  0.250 -9.000 -9.000 -999.  300.     69.2  0.10   2.68   0.60    2.81
293.    7.9  291.4    2.0
12 01 01   1 18  -25.4  0.257 -9.000 -9.000 -999.  313.     72.8  0.10   2.68   1.00    2.90
301.    7.9  288.1    2.0
12 01 01   1 19  -21.0  0.211 -9.000 -9.000 -999.  233.     49.0  0.10   2.68   1.00    2.40
313.    7.9  286.4    2.0
12 01 01   1 20  -25.7  0.258 -9.000 -9.000 -999.  315.     73.3  0.10   2.68   1.00    2.91
302.    7.9  286.4    2.0
12 01 01   1 21  -22.5  0.225 -9.000 -9.000 -999.  256.     55.7  0.10   2.68   1.00    2.55
306.    7.9  285.4    2.0
12 01 01   1 22   -9.3  0.126 -9.000 -9.000 -999.  111.     19.5  0.10   2.68   1.00    1.48
284.    7.9  285.9    2.0
12 01 01   1 23  -21.4  0.214 -9.000 -9.000 -999.  237.     50.3  0.10   2.68   1.00    2.43
282.    7.9  285.4    2.0
12 01 01   1 24  -30.1  0.300 -9.000 -9.000 -999.  394.     98.9  0.10   2.68   1.00    3.36
300.    7.9  284.2    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  322.    1.13   282.1   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       11:54:08

                      PAGE   9
 *** 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 NOX IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391891.24	3747480.41	1.61607	(13041207)	391892.01	3747456.00	1.72135	(13041207)
391965.04	3747447.61	1.91727	(13041207)	391925.38	3747447.61	1.88894	(13041207)
392089.38	3747454.66	1.95045	(13041207)	392112.83	3747454.85	1.88225	(13041207)
392033.31	3747443.03	1.70959	(13041207)	392142.39	3747442.46	1.55099	(13041207)
392336.71	3747437.69	1.08902	(12122516)	392429.96	3747448.18	0.62891	(12122516)
392412.42	3747555.73	0.50696	(15011116)	392343.77	3747480.03	1.23852	(12122516)
392217.30	3747461.24	1.77521	(12071106)	392161.48	3747408.94	0.81143	(12071106)
391879.25	3747513.22	1.23897	(13041207)	391891.65	3747546.98	1.33127	(13110408)
391891.84	3747573.68	1.40528	(13110408)	391884.40	3747601.90	0.99955	(13110408)
391891.08	3747641.76	0.95171	(16021717)	391889.35	3747663.46	0.81028	(12112916)
391883.45	3747699.92	0.60651	(12112916)	391881.92	3747730.82	0.48611	(12112916)
391884.40	3747754.47	0.41951	(12112916)	391885.36	3747780.40	0.36250	(12112916)
391883.83	3747768.01	0.38832	(12112916)	391493.56	3748488.26	0.06555	(14091424)
391947.12	3747875.71	0.32038	(12020617)	391983.08	3747875.94	0.36091	(12020617)
391885.46	3747791.74	0.34337	(15091424)	391889.32	3747804.03	0.32839	(14091424)
391887.50	3747815.86	0.31420	(14091424)	391874.76	3747826.10	0.29815	(12082022)
391892.74	3747852.04	0.28016	(15072023)	391892.51	3747880.49	0.25746	(15091120)
392032.89	3747873.67	0.38557	(12020617)	392140.29	3747873.36	0.37476	(12020617)
392233.52	3747864.86	0.36412	(14041207)	392523.19	3747518.42	0.28960	(14091722)
392655.00	3747574.84	0.18761	(13092022)	392733.47	3747870.77	0.12578	(16092618)
391927.56	3747940.84	0.23185	(12020617)	391927.83	3747987.42	0.20413	(12020617)
391940.95	3748045.52	0.18774	(12020617)	391926.76	3748083.27	0.16188	(12020617)
391928.37	3748118.62	0.15133	(12020617)	391927.56	3748149.14	0.14183	(12020617)
391892.49	3747904.69	0.24084	(15091120)	391891.96	3747917.81	0.23222	(15091120)
391891.15	3747931.74	0.22342	(15091120)	391885.26	3747942.98	0.21583	(15091120)
391893.29	3747955.03	0.20992	(15091120)	391893.83	3747978.59	0.19738	(15091003)
391893.03	3747994.39	0.18979	(15091003)	391885.80	3748035.62	0.17135	(15091003)
391893.83	3748088.36	0.15250	(14080322)	391894.63	3748143.78	0.13674	(14080322)

391894.10   3748120.49   0.14312 (14080322)   391894.63
3748155.30   0.13369 (14080322)
391891.15   3748182.87   0.12662 (15081805)   391893.03
3748195.99   0.12368 (15081805)
391927.30   3748191.71   0.13055 (12020617)   391928.64
3748236.15   0.12088 (12020617)
391928.64   3748259.98   0.11584 (12020617)   391894.37
3748207.50   0.12112 (15081805)
391891.15   3748220.09   0.11827 (15081805)   391891.15
3748231.06   0.11593 (15081805)
391891.15   3748243.38   0.11337 (15081805)   391891.15
3748255.70   0.11095 (15081802)
391895.17   3748287.02   0.10547 (15081802)   391895.44
3748311.12   0.10134 (15081802)
391886.07   3748326.91   0.09862 (15081802)   391893.83
3748337.09   0.09711 (15081802)
391896.46   3748353.98   0.09463 (13052920)   391943.47
3748329.02   0.10706 (12020617)
391942.12   3748346.05   0.10359 (12020617)   391935.35
3748361.91   0.09915 (12020617)
391897.02   3748404.40   0.08779 (13052920)   391938.93
3748376.12   0.09768 (12020617)
391932.47   3748387.64   0.09433 (12020617)   391891.74
3748427.33   0.08483 (13052920)

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1 ***   09/07/23
*** AERMET - VERSION 16216 ***
***   ***   11:54:08

PAGE 10
*** 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 NOX   IN MICROGRAMS/M**3   **

X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
- -
391929.07   3748405.45   0.09088 (12020617)   391929.40
3748424.21   0.08828 (12020617)
391929.73   3748439.17   0.08630 (12020617)   391928.74
3748454.63   0.08405 (12020617)
391897.00   3748453.15   0.08192 (15073104)   391866.08
3747495.99   1.08008 (13041207)
391854.46   3747480.49   0.97458 (13041207)   391855.46
3747526.86   0.98683 (13110408)
391854.21   3747513.99   0.95342 (13110408)   391855.21
3747538.86   1.00621 (13110408)
391855.46   3747549.85   1.02673 (13110408)   392423.79
3747240.43   0.24109 (15090824)
391889.87   3747651.95   0.87291 (16021717)   391853.95
3747577.01   0.96129 (13110408)

391854.20 3747603.13 0.76366 (13110408) 391854.95
3747615.63 0.75538 (16112016)
391855.57 3747626.38 0.74983 (16112016) 391854.14
3747455.54 1.07259 (13041207)
391853.42 3747443.48 1.09234 (13041207) 391888.71
3747380.11 0.91028 (13041207)
391853.60 3747430.34 1.09562 (13041207) 391842.26
3747485.07 0.79301 (13041207)
391705.13 3747221.17 0.32099 (13041207) 391890.27
3747198.72 0.24305 (15071920)
391791.77 3747248.29 0.38079
(13041207)

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF NOX IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	1ST HIGH	VALUE IS 1.95045	ON 13041207: AT (392089.38, 3747454.66, 29.00, 29.00, 2.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** 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 1017 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 747 Calm Hours Identified

A Total of 270 Missing Hours Identified (0.62 Percent)

******** FATAL ERROR MESSAGES ********

*** NONE ***

******** WARNING MESSAGES ********

ME W186 128 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used 0.50

ME W187 128 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

****

*** AERMOD Finishes Successfully ***

****

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**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/7/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt6 PM10\14715 Ops
Alt6 PM10.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID PM_10
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt6 PM10.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
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   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL2         0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL3         0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL4         0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL5         0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL6         0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL7         0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL8         0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL9         0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL10        0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL11        0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL12        0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL13        0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL14        0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL15        0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL16        0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL17        0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL18        0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL19        0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL20        0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL21        0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL22        0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL23        0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL24        0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL25        0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL26        0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL27        0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL28        0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL29        0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL30        0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL31        0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL32        0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL33        0.0000478792     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Alt6 PM10.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
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**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "14715 OPS ALT6 PM10.AD\24H1GALL.PLT" 31
   SUMMFILE "14715 Ops Alt6 PM10.sum"
OU FINISHED
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** Project Parameters
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** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
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** Lakes Environmental AERMOD MPI
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** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/7/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt6 PM10\14715 Ops
Alt6 PM10.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID PM_10
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt6 PM10.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
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**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
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   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
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   SRCPARAM VOL7         0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL8         0.0000478792     5.000    10.435     1.400
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   SRCPARAM VOL11        0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL12        0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL13        0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL14        0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL15        0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL16        0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL17        0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL18        0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL19        0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL20        0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL21        0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL22        0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL23        0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL24        0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL25        0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL26        0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL27        0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL28        0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL29        0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL30        0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL31        0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL32        0.0000478792     5.000    10.435     1.400
   SRCPARAM VOL33        0.0000478792     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Alt6 PM10.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
```

```
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "14715 OPS ALT6 PM10.AD\24H1GALL.PLT" 31
   SUMMFILE "14715 Ops Alt6 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     128       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     128       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 **********************************
 *** SETUP Finishes Successfully ***
 **********************************

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        12:09:04

                      PAGE   1
 *** 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    33 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   9818605.0 ;  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:     33 Source(s);       1 Source Group(s); and     105 Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:     33 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) =    10.00 ;  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:   14715 Ops Alt6
 PM10.err
 **File for Summary of Results:   14715 Ops Alt6
 PM10.sum
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***        12:09:04

                      PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.
              URBAN  EMISSION RATE
  SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ
  SOURCE  SCALAR VARY
    ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

- - - - - - - - - - - - -

VOL1	0	0.47879E-04	391943.2	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL2	0	0.47879E-04	391988.3	3747611.1	29.0	5.00	10.44	1.40
YES								
VOL3	0	0.47879E-04	392033.2	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL4	0	0.47879E-04	392078.1	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL5	0	0.47879E-04	392122.7	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL6	0	0.47879E-04	392167.6	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL7	0	0.47879E-04	392175.8	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL8	0	0.47879E-04	392175.0	3747565.7	29.0	5.00	10.44	1.40
YES								
VOL9	0	0.47879E-04	392129.7	3747566.0	29.0	5.00	10.44	1.40
YES								
VOL10	0	0.47879E-04	392084.7	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL11	0	0.47879E-04	392040.2	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL12	0	0.47879E-04	391995.7	3747566.3	29.0	5.00	10.44	1.40
YES								
VOL13	0	0.47879E-04	391951.4	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL14	0	0.47879E-04	391942.7	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL15	0	0.47879E-04	391942.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL16	0	0.47879E-04	391987.4	3747522.1	29.0	5.00	10.44	1.40
YES								
VOL17	0	0.47879E-04	392031.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL18	0	0.47879E-04	392076.4	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL19	0	0.47879E-04	392121.3	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL20	0	0.47879E-04	392165.8	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL21	0	0.47879E-04	392210.9	3747521.2	29.0	5.00	10.44	1.40
YES								
VOL22	0	0.47879E-04	392219.6	3747557.0	29.0	5.00	10.44	1.40
YES								
VOL23	0	0.47879E-04	392237.2	3747556.6	29.0	5.00	10.44	1.40
YES								
VOL24	0	0.47879E-04	392256.9	3747546.6	29.0	5.00	10.44	1.40
YES								
VOL25	0	0.47879E-04	392256.5	3747502.1	29.0	5.00	10.44	1.40
YES								
VOL26	0	0.47879E-04	392256.3	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL27	0	0.47879E-04	392211.2	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL28	0	0.47879E-04	392167.1	3747484.7	29.0	5.00	10.44	1.40
YES								
VOL29	0	0.47879E-04	392122.1	3747484.9	29.0	5.00	10.44	1.40
YES								
VOL30	0	0.47879E-04	392076.7	3747485.0	29.0	5.00	10.44	1.40
YES								
VOL31	0	0.47879E-04	392032.1	3747485.2	29.0	5.00	10.44	1.40
YES								
VOL32	0	0.47879E-04	391987.1	3747485.9	29.0	5.00	10.44	1.40
YES								

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
9818605.	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 ,

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391891.2, 3747480.4, 29.0, 29.0, 2.0); (391892.0, 3747456.0, 29.0, 29.0, 2.0);
(391965.0, 3747447.6, 29.0, 29.0, 2.0); (391925.4, 3747447.6, 29.0, 29.0, 2.0);
(392089.4, 3747454.7, 29.0, 29.0, 2.0); (392112.8, 3747454.8, 29.0, 29.0, 2.0);
(392033.3, 3747443.0, 29.0, 29.0, 2.0); (392142.4, 3747442.5, 29.0, 29.0, 2.0);
(392336.7, 3747437.7, 29.0, 29.0, 2.0); (392430.0, 3747448.2, 29.0, 29.0, 2.0);
(392412.4, 3747555.7, 29.0, 29.0, 2.0); (392343.8, 3747480.0, 29.0, 29.0, 2.0);
(392217.3, 3747461.2, 29.0, 29.0, 2.0); (392161.5, 3747408.9, 29.0, 29.0, 2.0);
(391879.2, 3747513.2, 29.0, 29.0, 2.0); (391891.6, 3747547.0, 29.0, 29.0, 2.0);
(391891.8, 3747573.7, 29.0, 29.0, 2.0); (391884.4, 3747601.9, 29.0, 29.0, 2.0);
(391891.1, 3747641.8, 29.0, 29.0, 2.0); (391889.3, 3747663.5, 29.0, 29.0, 2.0);
(391883.5, 3747699.9, 29.0, 29.0, 2.0); (391881.9, 3747730.8, 29.0, 29.0, 2.0);
(391884.4, 3747754.5, 29.0, 29.0, 2.0); (391885.4, 3747780.4, 29.0, 29.0, 2.0);
(391883.8, 3747768.0, 29.0, 29.0, 2.0); (391493.6, 3748488.3, 29.0, 29.0, 2.0);
(391947.1, 3747875.7, 29.0, 29.0, 2.0); (391983.1, 3747875.9, 29.0, 29.0, 2.0);
(391885.5, 3747791.7, 29.0, 29.0, 2.0); (391889.3, 3747804.0, 29.0, 29.0, 2.0);
(391887.5, 3747815.9, 29.0, 29.0, 2.0); (391874.8, 3747826.1, 29.0, 29.0, 2.0);
(391892.7, 3747852.0, 29.0, 29.0, 2.0); (391892.5, 3747880.5, 29.0, 29.0, 2.0);
(392032.9, 3747873.7, 29.0, 29.0, 2.0); (392140.3, 3747873.4, 29.0, 29.0, 2.0);
(392233.5, 3747864.9, 29.0, 29.0, 2.0); (392523.2, 3747518.4, 28.3, 28.3, 2.0);
(392655.0, 3747574.8, 28.0, 28.0, 2.0); (392733.5, 3747870.8, 27.6, 27.6, 2.0);
(391927.6, 3747940.8, 29.0, 29.0, 2.0); (391927.8, 3747987.4, 29.0, 29.0, 2.0);
(391941.0, 3748045.5, 29.0, 29.0, 2.0); (391926.8, 3748083.3, 29.0, 29.0, 2.0);
(391928.4, 3748118.6, 29.0, 29.0, 2.0); (391927.6, 3748149.1, 29.0, 29.0, 2.0);
(391892.5, 3747904.7, 29.0, 29.0, 2.0); (391892.0, 3747917.8, 29.0, 29.0, 2.0);
(391891.1, 3747931.7, 29.0, 29.0, 2.0); (391885.3, 3747943.0, 29.0, 29.0, 2.0);
(391893.3, 3747955.0, 29.0, 29.0, 2.0); (391893.8, 3747978.6, 29.0, 29.0, 2.0);
(391893.0, 3747994.4, 29.0, 29.0, 2.0); (391885.8, 3748035.6, 29.0, 29.0, 2.0);
(391893.8, 3748088.4, 29.0, 29.0, 2.0); (391894.6, 3748143.8, 29.0, 29.0, 2.0);
(391894.1, 3748120.5, 29.0, 29.0, 2.0); (391894.6, 3748155.3, 29.0, 29.0, 2.0);
(391891.1, 3748182.9, 29.0, 29.0, 2.0); (391893.0, 3748196.0, 29.0, 29.0, 2.0);
(391927.3, 3748191.7, 29.0, 29.0, 2.0); (391928.6,

3748236.1, 29.0, 29.0, 2.0);
(391928.6, 3748260.0, 29.0, 29.0, 2.0); (391894.4,
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(391891.1, 3748220.1, 29.0, 29.0, 2.0); (391891.1,
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(391891.1, 3748243.4, 29.0, 29.0, 2.0); (391891.1,
3748255.7, 29.0, 29.0, 2.0);
(391895.2, 3748287.0, 29.0, 29.0, 2.0); (391895.4,
3748311.1, 29.0, 29.0, 2.0);
(391886.1, 3748326.9, 29.0, 29.0, 2.0); (391893.8,
3748337.1, 29.0, 29.0, 2.0);
(391896.5, 3748354.0, 29.0, 29.0, 2.0); (391943.5,
3748329.0, 29.0, 29.0, 2.0);
(391942.1, 3748346.0, 29.0, 29.0, 2.0); (391935.3,
3748361.9, 29.0, 29.0, 2.0);
(391897.0, 3748404.4, 29.0, 29.0, 2.0); (391938.9,
3748376.1, 29.0, 29.0, 2.0);
(391932.5, 3748387.6, 29.0, 29.0, 2.0); (391891.7,
3748427.3, 29.0, 29.0, 2.0);
(391929.1, 3748405.4, 29.0, 29.0, 2.0); (391929.4,
3748424.2, 29.0, 29.0, 2.0);
(391929.7, 3748439.2, 29.0, 29.0, 2.0); (391928.7,
3748454.6, 29.0, 29.0, 2.0);
(391897.0, 3748453.1, 29.0, 29.0, 2.0); (391866.1,
3747496.0, 29.0, 29.0, 2.0);
(391854.5, 3747480.5, 29.0, 29.0, 2.0); (391855.5,
3747526.9, 29.0, 29.0, 2.0);
(391854.2, 3747514.0, 29.0, 29.0, 2.0); (391855.2,
3747538.9, 29.0, 29.0, 2.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391855.5, 3747549.8, 29.0, 29.0, 2.0); (392423.8,
3747240.4, 29.0, 29.0, 2.0);
(391889.9, 3747651.9, 29.0, 29.0, 2.0); (391854.0,
3747577.0, 29.0, 29.0, 2.0);
(391854.2, 3747603.1, 29.0, 29.0, 2.0); (391855.0,
3747615.6, 29.0, 29.0, 2.0);
(391855.6, 3747626.4, 29.0, 29.0, 2.0); (391854.1,
3747455.5, 29.0, 29.0, 2.0);
(391853.4, 3747443.5, 29.0, 29.0, 2.0); (391888.7,
3747380.1, 29.0, 29.0, 2.0);
(391853.6, 3747430.3, 29.0, 29.0, 2.0); (391842.3,
3747485.1, 29.0, 29.0, 2.0);
(391705.1, 3747221.2, 29.0, 29.0, 2.0); (391890.3,
3747198.7, 29.0, 29.0, 2.0);
(391791.8, 3747248.3, 29.0, 29.0,
2.0);

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***

(1=YES; 0=NO)

```
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file:
KLGB_V9_ADJU\KLGB_v9.SFC Met
Version: 16216
Profile file:
KLGB_V9_ADJU\KLGB_v9.PFL
Surface format:
FREE

Profile format:
FREE

Surface station no.: 23129 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	-5.3	0.094	-9.000	-9.000	-999.	70.	14.3	0.10	2.68	1.00	1.13	322.	7.9	282.0	2.0
12	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	2.68	1.00	0.00	0.	7.9	281.4	2.0
12	01	01	1	03	-2.5	0.068	-9.000	-9.000	-999.	43.	11.4	0.10	2.68	1.00	0.74	79.	7.9	280.9	2.0
12	01	01	1	04	-3.2	0.075	-9.000	-9.000	-999.	49.	11.7	0.10	2.68	1.00	0.86				

```
137.    7.9  280.9    2.0
12 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.10   2.68   1.00    0.00
0.    7.9  280.4    2.0
12 01 01   1 06   -5.2  0.093 -9.000 -9.000 -999.   68.     14.0  0.10   2.68   1.00    1.11
92.    7.9  279.9    2.0
12 01 01   1 07   -2.3  0.066 -9.000 -9.000 -999.   41.     11.5  0.10   2.68   1.00    0.69
67.    7.9  278.8    2.0
12 01 01   1 08   -1.7  0.060 -9.000 -9.000 -999.   36.     11.4  0.10   2.68   0.54    0.65
91.    7.9  279.9    2.0
12 01 01   1 09   36.2 -9.000 -9.000 -9.000   37. -999. -99999.0  0.10   2.68   0.31    0.00
0.    7.9  283.8    2.0
12 01 01   1 10  108.4  0.139  0.707  0.009  119.  124.     -2.3  0.10   2.68   0.24    0.92
319.    7.9  287.5    2.0
12 01 01   1 11  160.5  0.114  1.137  0.005  334.   93.     -1.0  0.10   2.68   0.21    0.62
23.    7.9  292.5    2.0
12 01 01   1 12  186.7  0.125  1.473  0.005  623.  105.     -1.0  0.10   2.68   0.20    0.69
18.    7.9  295.4    2.0
12 01 01   1 13  186.8  0.130  1.761  0.005 1065.  112.     -1.1  0.10   2.68   0.20    0.74
250.    7.9  297.5    2.0
12 01 01   1 14  161.7  0.150  1.834  0.005 1387.  139.     -1.9  0.10   2.68   0.21    0.96
347.    7.9  300.4    2.0
12 01 01   1 15  105.5  0.243  1.633  0.005 1499.  288.    -12.4  0.10   2.68   0.24    2.11
194.    7.9  295.9    2.0
12 01 01   1 16   32.4  0.211  1.109  0.005 1530.  233.    -26.3  0.10   2.68   0.33    1.98
186.    7.9  295.4    2.0
12 01 01   1 17  -20.5  0.250 -9.000 -9.000 -999.  300.     69.2  0.10   2.68   0.60    2.81
293.    7.9  291.4    2.0
12 01 01   1 18  -25.4  0.257 -9.000 -9.000 -999.  313.     72.8  0.10   2.68   1.00    2.90
301.    7.9  288.1    2.0
12 01 01   1 19  -21.0  0.211 -9.000 -9.000 -999.  233.     49.0  0.10   2.68   1.00    2.40
313.    7.9  286.4    2.0
12 01 01   1 20  -25.7  0.258 -9.000 -9.000 -999.  315.     73.3  0.10   2.68   1.00    2.91
302.    7.9  286.4    2.0
12 01 01   1 21  -22.5  0.225 -9.000 -9.000 -999.  256.     55.7  0.10   2.68   1.00    2.55
306.    7.9  285.4    2.0
12 01 01   1 22   -9.3  0.126 -9.000 -9.000 -999.  111.     19.5  0.10   2.68   1.00    1.48
284.    7.9  285.9    2.0
12 01 01   1 23  -21.4  0.214 -9.000 -9.000 -999.  237.     50.3  0.10   2.68   1.00    2.43
282.    7.9  285.4    2.0
12 01 01   1 24  -30.1  0.300 -9.000 -9.000 -999.  394.     98.9  0.10   2.68   1.00    3.36
300.    7.9  284.2    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  322.    1.13   282.1   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       12:09:04

                      PAGE   9
 *** 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        , 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_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391891.24	3747480.41	0.09239	(12121624)	391892.01	3747456.00	0.07343	(12121624)
391965.04	3747447.61	0.11523c	(12122924)	391925.38	3747447.61	0.09411c	(12122924)
392089.38	3747454.66	0.16185c	(12122524)	392112.83	3747454.85	0.16420c	(12122524)
392033.31	3747443.03	0.12454c	(12122524)	392142.39	3747442.46	0.13300c	(12122524)
392336.71	3747437.69	0.06809	(13122724)	392429.96	3747448.18	0.03508	(13040124)
392412.42	3747555.73	0.03689	(15040624)	392343.77	3747480.03	0.06964	(16101624)
392217.30	3747461.24	0.18223c	(12122524)	392161.48	3747408.94	0.08425m	(15020724)
391879.25	3747513.22	0.08850	(12121624)	391891.65	3747546.98	0.10497	(14121624)
391891.84	3747573.68	0.10435	(14121624)	391884.40	3747601.90	0.08850	(12112924)
391891.08	3747641.76	0.07722	(12112924)	391889.35	3747663.46	0.06334	(12112924)
391883.45	3747699.92	0.04534	(12112924)	391881.92	3747730.82	0.03799	(13043024)
391884.40	3747754.47	0.03491	(13043024)	391885.36	3747780.40	0.03177	(16061124)
391883.83	3747768.01	0.03293	(13043024)	391493.56	3748488.26	0.00449	(14083124)
391947.12	3747875.71	0.02641	(16061124)	391983.08	3747875.94	0.02653	(16061124)
391885.46	3747791.74	0.03064	(16061124)	391889.32	3747804.03	0.03000	(16061124)
391887.50	3747815.86	0.02864	(16061124)	391874.76	3747826.10	0.02626	(16061124)
391892.74	3747852.04	0.02604	(16061124)	391892.51	3747880.49	0.02383	(16061124)
392032.89	3747873.67	0.02658	(12041924)	392140.29	3747873.36	0.02638	(16051624)
392233.52	3747864.86	0.02496	(14052424)	392523.19	3747518.42	0.02223	(16101624)
392655.00	3747574.84	0.01303	(15040624)	392733.47	3747870.77	0.00675	(12110824)
391927.56	3747940.84	0.02072	(16061124)	391927.83	3747987.42	0.01782	(16061124)
391940.95	3748045.52	0.01479	(16061124)	391926.76	3748083.27	0.01331	(16061124)
391928.37	3748118.62	0.01223	(12041924)	391927.56	3748149.14	0.01144	(12041924)
391892.49	3747904.69	0.02216	(16061124)	391891.96	3747917.81	0.02129	(16061124)
391891.15	3747931.74	0.02041	(16061124)	391885.26	3747942.98	0.01956	(16061124)
391893.29	3747955.03	0.01915	(16061124)	391893.83	3747978.59	0.01791	(16061124)
391893.03	3747994.39	0.01711	(16061124)	391885.80	3748035.62	0.01519	(16061124)
391893.83	3748088.36	0.01322	(16061124)	391894.63	3748143.78	0.01141	(16061124)

391894.10 3748120.49 0.01213 (16061124) 391894.63
3748155.30 0.01107 (16061124)
391891.15 3748182.87 0.01033 (16061124) 391893.03
3748195.99 0.01002 (12041924)
391927.30 3748191.71 0.01047 (12041924) 391928.64
3748236.15 0.00959 (12041924)
391928.64 3748259.98 0.00916 (12041924) 391894.37
3748207.50 0.00983 (12041924)
391891.15 3748220.09 0.00957 (12041924) 391891.15
3748231.06 0.00938 (12041924)
391891.15 3748243.38 0.00917 (12041924) 391891.15
3748255.70 0.00898 (12041924)
391895.17 3748287.02 0.00853 (12041924) 391895.44
3748311.12 0.00818 (12041924)
391886.07 3748326.91 0.00791 (12041924) 391893.83
3748337.09 0.00782 (12041924)
391896.46 3748353.98 0.00761 (12041924) 391943.47
3748329.02 0.00805 (12041924)
391942.12 3748346.05 0.00780 (12041924) 391935.35
3748361.91 0.00758 (12041924)
391897.02 3748404.40 0.00700 (12041924) 391938.93
3748376.12 0.00739 (12041924)
391932.47 3748387.64 0.00724 (12041924) 391891.74
3748427.33 0.00674 (12041924)

*** 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 , 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_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391929.07	3748405.45	0.00703	(12041924)	391929.40	3748424.21	0.00680	(12041924)
391929.73	3748439.17	0.00663	(12041924)	391928.74	3748454.63	0.00646	(12041924)
391897.00	3748453.15	0.00648	(12041924)	391866.08	3747495.99	0.07583	(12121624)
391854.46	3747480.49	0.06494	(12121624)	391855.46	3747526.86	0.07099	(14121624)
391854.21	3747513.99	0.06907	(12121624)	391855.21	3747538.86	0.07196	(14121624)
391855.46	3747549.85	0.07249	(14121624)	392423.79	3747240.43	0.02297	(16122724)
391889.87	3747651.95	0.07018	(12112924)	391853.95	3747577.01	0.06874	(14121624)

391854.20 3747603.13 0.06211 (12112924) 391854.95
3747615.63 0.06060 (12112924)
391855.57 3747626.38 0.05868 (12112924) 391854.14
3747455.54 0.05591 (12121624)
391853.42 3747443.48 0.05093 (12121624) 391888.71
3747380.11 0.04076c (12122924)
391853.60 3747430.34 0.04612 (12121624) 391842.26
3747485.07 0.05967 (12121624)
391705.13 3747221.17 0.01226c (12122924) 391890.27
3747198.72 0.01576c (12122924)
391791.77 3747248.29 0.01625c
(12122924)

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	0.18223c ON 12122524:	AT (392217.30, 3747461.24, 29.00, 29.00, 2.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** 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 1017 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 747 Calm Hours Identified

A Total of 270 Missing Hours Identified (0.62 Percent)

******** FATAL ERROR MESSAGES ********

*** NONE ***

******** WARNING MESSAGES ********

ME W186 128 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used 0.50

ME W187 128 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

****

*** AERMOD Finishes Successfully ***

****

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**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/7/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt6 PM25\14715 Ops
Alt6 PM25.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID PM_2.5
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt6 PM25.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
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   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL2         0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL3         0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL4         0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL5         0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL6         0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL7         0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL8         0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL9         0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL10        0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL11        0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL12        0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL13        0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL14        0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL15        0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL16        0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL17        0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL18        0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL19        0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL20        0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL21        0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL22        0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL23        0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL24        0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL25        0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL26        0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL27        0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL28        0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL29        0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL30        0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL31        0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL32        0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL33        0.0000188997     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Alt6 PM25.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
```

```
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "14715 OPS ALT6 PM25.AD\24H1GALL.PLT" 31
   SUMMFILE "14715 Ops Alt6 PM25.sum"
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**
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```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/7/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops Alt6 PM25\14715 Ops
Alt6 PM25.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID PM_2.5
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14715 Ops Alt6 PM25.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     391943.208  3747610.854       29.000
   LOCATION VOL2         VOLUME     391988.322  3747611.103       29.000
   LOCATION VOL3         VOLUME     392033.192  3747611.353       29.000
   LOCATION VOL4         VOLUME     392078.063  3747611.353       29.000
   LOCATION VOL5         VOLUME     392122.683  3747610.854       29.000
   LOCATION VOL6         VOLUME     392167.553  3747610.355       29.000
   LOCATION VOL7         VOLUME     392175.780  3747610.355       29.000
   LOCATION VOL8         VOLUME     392175.032  3747565.735       29.000
   LOCATION VOL9         VOLUME     392129.663  3747565.984       29.000
   LOCATION VOL10        VOLUME     392084.658  3747566.557       29.000
   LOCATION VOL11        VOLUME     392040.161  3747566.557       29.000
   LOCATION VOL12        VOLUME     391995.664  3747566.345       29.000
   LOCATION VOL13        VOLUME     391951.379  3747566.133       29.000
   LOCATION VOL14        VOLUME     391942.692  3747566.133       29.000
   LOCATION VOL15        VOLUME     391942.904  3747521.636       29.000
   LOCATION VOL16        VOLUME     391987.401  3747522.060       29.000
   LOCATION VOL17        VOLUME     392031.897  3747521.636       29.000
   LOCATION VOL18        VOLUME     392076.394  3747521.424       29.000
   LOCATION VOL19        VOLUME     392121.315  3747521.424       29.000
   LOCATION VOL20        VOLUME     392165.812  3747521.636       29.000
   LOCATION VOL21        VOLUME     392210.944  3747521.213       29.000
   LOCATION VOL22        VOLUME     392219.632  3747557.022       29.000
   LOCATION VOL23        VOLUME     392237.219  3747556.598       29.000
   LOCATION VOL24        VOLUME     392256.924  3747546.639       29.000
   LOCATION VOL25        VOLUME     392256.501  3747502.142       29.000
   LOCATION VOL26        VOLUME     392256.339  3747484.538       29.000
   LOCATION VOL27        VOLUME     392211.207  3747484.507       29.000
   LOCATION VOL28        VOLUME     392167.114  3747484.658       29.000
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   LOCATION VOL29        VOLUME     392122.143  3747484.912       29.000
   LOCATION VOL30        VOLUME     392076.718  3747485.032       29.000
   LOCATION VOL31        VOLUME     392032.059  3747485.244       29.000
   LOCATION VOL32        VOLUME     391987.108  3747485.860       29.000
   LOCATION VOL33        VOLUME     391942.692  3747485.940       29.000
** Source Parameters **
   SRCPARAM VOL1         0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL2         0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL3         0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL4         0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL5         0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL6         0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL7         0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL8         0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL9         0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL10        0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL11        0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL12        0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL13        0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL14        0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL15        0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL16        0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL17        0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL18        0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL19        0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL20        0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL21        0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL22        0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL23        0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL24        0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL25        0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL26        0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL27        0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL28        0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL29        0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL30        0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL31        0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL32        0.0000188997     5.000    10.435     1.400
   SRCPARAM VOL33        0.0000188997     5.000    10.435     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14715 Ops Alt6 PM25.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KLGB_V9_ADJU\KLGB_v9.SFC
   PROFFILE KLGB_V9_ADJU\KLGB_v9.PFL
   SURFDATA 23129 2012
   UAIRDATA 3190 2012
   PROFBASE 10.0 METERS
ME FINISHED
**
**************************************
```

```
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "14715 OPS ALT6 PM25.AD\24H1GALL.PLT" 31
   SUMMFILE "14715 Ops Alt6 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     128       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     128       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 *********************************
 *** SETUP Finishes Successfully ***
 *********************************

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       12:13:57

                      PAGE   1
 *** 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    33 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   9818605.0 ;  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:     33 Source(s);       1 Source Group(s); and     105 Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:     33 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) =    10.00 ;  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:   14715 Ops Alt6
 PM25.err
 **File for Summary of Results:   14715 Ops Alt6
 PM25.sum
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***       12:13:57

                     PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.
              URBAN  EMISSION RATE
  SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ
  SOURCE  SCALAR VARY
    ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

- - - - - - - - - - - - -

VOL1	0	0.18900E-04	391943.2	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL2	0	0.18900E-04	391988.3	3747611.1	29.0	5.00	10.44	1.40
YES								
VOL3	0	0.18900E-04	392033.2	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL4	0	0.18900E-04	392078.1	3747611.4	29.0	5.00	10.44	1.40
YES								
VOL5	0	0.18900E-04	392122.7	3747610.9	29.0	5.00	10.44	1.40
YES								
VOL6	0	0.18900E-04	392167.6	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL7	0	0.18900E-04	392175.8	3747610.4	29.0	5.00	10.44	1.40
YES								
VOL8	0	0.18900E-04	392175.0	3747565.7	29.0	5.00	10.44	1.40
YES								
VOL9	0	0.18900E-04	392129.7	3747566.0	29.0	5.00	10.44	1.40
YES								
VOL10	0	0.18900E-04	392084.7	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL11	0	0.18900E-04	392040.2	3747566.6	29.0	5.00	10.44	1.40
YES								
VOL12	0	0.18900E-04	391995.7	3747566.3	29.0	5.00	10.44	1.40
YES								
VOL13	0	0.18900E-04	391951.4	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL14	0	0.18900E-04	391942.7	3747566.1	29.0	5.00	10.44	1.40
YES								
VOL15	0	0.18900E-04	391942.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL16	0	0.18900E-04	391987.4	3747522.1	29.0	5.00	10.44	1.40
YES								
VOL17	0	0.18900E-04	392031.9	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL18	0	0.18900E-04	392076.4	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL19	0	0.18900E-04	392121.3	3747521.4	29.0	5.00	10.44	1.40
YES								
VOL20	0	0.18900E-04	392165.8	3747521.6	29.0	5.00	10.44	1.40
YES								
VOL21	0	0.18900E-04	392210.9	3747521.2	29.0	5.00	10.44	1.40
YES								
VOL22	0	0.18900E-04	392219.6	3747557.0	29.0	5.00	10.44	1.40
YES								
VOL23	0	0.18900E-04	392237.2	3747556.6	29.0	5.00	10.44	1.40
YES								
VOL24	0	0.18900E-04	392256.9	3747546.6	29.0	5.00	10.44	1.40
YES								
VOL25	0	0.18900E-04	392256.5	3747502.1	29.0	5.00	10.44	1.40
YES								
VOL26	0	0.18900E-04	392256.3	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL27	0	0.18900E-04	392211.2	3747484.5	29.0	5.00	10.44	1.40
YES								
VOL28	0	0.18900E-04	392167.1	3747484.7	29.0	5.00	10.44	1.40
YES								
VOL29	0	0.18900E-04	392122.1	3747484.9	29.0	5.00	10.44	1.40
YES								
VOL30	0	0.18900E-04	392076.7	3747485.0	29.0	5.00	10.44	1.40
YES								
VOL31	0	0.18900E-04	392032.1	3747485.2	29.0	5.00	10.44	1.40
YES								
VOL32	0	0.18900E-04	391987.1	3747485.9	29.0	5.00	10.44	1.40
YES								

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
9818605.	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 ,

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391891.2, 3747480.4, 29.0, 29.0, 2.0); (391892.0, 3747456.0, 29.0, 29.0, 2.0);
(391965.0, 3747447.6, 29.0, 29.0, 2.0); (391925.4, 3747447.6, 29.0, 29.0, 2.0);
(392089.4, 3747454.7, 29.0, 29.0, 2.0); (392112.8, 3747454.8, 29.0, 29.0, 2.0);
(392033.3, 3747443.0, 29.0, 29.0, 2.0); (392142.4, 3747442.5, 29.0, 29.0, 2.0);
(392336.7, 3747437.7, 29.0, 29.0, 2.0); (392430.0, 3747448.2, 29.0, 29.0, 2.0);
(392412.4, 3747555.7, 29.0, 29.0, 2.0); (392343.8, 3747480.0, 29.0, 29.0, 2.0);
(392217.3, 3747461.2, 29.0, 29.0, 2.0); (392161.5, 3747408.9, 29.0, 29.0, 2.0);
(391879.2, 3747513.2, 29.0, 29.0, 2.0); (391891.6, 3747547.0, 29.0, 29.0, 2.0);
(391891.8, 3747573.7, 29.0, 29.0, 2.0); (391884.4, 3747601.9, 29.0, 29.0, 2.0);
(391891.1, 3747641.8, 29.0, 29.0, 2.0); (391889.3, 3747663.5, 29.0, 29.0, 2.0);
(391883.5, 3747699.9, 29.0, 29.0, 2.0); (391881.9, 3747730.8, 29.0, 29.0, 2.0);
(391884.4, 3747754.5, 29.0, 29.0, 2.0); (391885.4, 3747780.4, 29.0, 29.0, 2.0);
(391883.8, 3747768.0, 29.0, 29.0, 2.0); (391493.6, 3748488.3, 29.0, 29.0, 2.0);
(391947.1, 3747875.7, 29.0, 29.0, 2.0); (391983.1, 3747875.9, 29.0, 29.0, 2.0);
(391885.5, 3747791.7, 29.0, 29.0, 2.0); (391889.3, 3747804.0, 29.0, 29.0, 2.0);
(391887.5, 3747815.9, 29.0, 29.0, 2.0); (391874.8, 3747826.1, 29.0, 29.0, 2.0);
(391892.7, 3747852.0, 29.0, 29.0, 2.0); (391892.5, 3747880.5, 29.0, 29.0, 2.0);
(392032.9, 3747873.7, 29.0, 29.0, 2.0); (392140.3, 3747873.4, 29.0, 29.0, 2.0);
(392233.5, 3747864.9, 29.0, 29.0, 2.0); (392523.2, 3747518.4, 28.3, 28.3, 2.0);
(392655.0, 3747574.8, 28.0, 28.0, 2.0); (392733.5, 3747870.8, 27.6, 27.6, 2.0);
(391927.6, 3747940.8, 29.0, 29.0, 2.0); (391927.8, 3747987.4, 29.0, 29.0, 2.0);
(391941.0, 3748045.5, 29.0, 29.0, 2.0); (391926.8, 3748083.3, 29.0, 29.0, 2.0);
(391928.4, 3748118.6, 29.0, 29.0, 2.0); (391927.6, 3748149.1, 29.0, 29.0, 2.0);
(391892.5, 3747904.7, 29.0, 29.0, 2.0); (391892.0, 3747917.8, 29.0, 29.0, 2.0);
(391891.1, 3747931.7, 29.0, 29.0, 2.0); (391885.3, 3747943.0, 29.0, 29.0, 2.0);
(391893.3, 3747955.0, 29.0, 29.0, 2.0); (391893.8, 3747978.6, 29.0, 29.0, 2.0);
(391893.0, 3747994.4, 29.0, 29.0, 2.0); (391885.8, 3748035.6, 29.0, 29.0, 2.0);
(391893.8, 3748088.4, 29.0, 29.0, 2.0); (391894.6, 3748143.8, 29.0, 29.0, 2.0);
(391894.1, 3748120.5, 29.0, 29.0, 2.0); (391894.6, 3748155.3, 29.0, 29.0, 2.0);
(391891.1, 3748182.9, 29.0, 29.0, 2.0); (391893.0, 3748196.0, 29.0, 29.0, 2.0);
(391927.3, 3748191.7, 29.0, 29.0, 2.0); (391928.6,

3748236.1, 29.0, 29.0, 2.0);
(391928.6, 3748260.0, 29.0, 29.0, 2.0); (391894.4,
3748207.5, 29.0, 29.0, 2.0);
(391891.1, 3748220.1, 29.0, 29.0, 2.0); (391891.1,
3748231.1, 29.0, 29.0, 2.0);
(391891.1, 3748243.4, 29.0, 29.0, 2.0); (391891.1,
3748255.7, 29.0, 29.0, 2.0);
(391895.2, 3748287.0, 29.0, 29.0, 2.0); (391895.4,
3748311.1, 29.0, 29.0, 2.0);
(391886.1, 3748326.9, 29.0, 29.0, 2.0); (391893.8,
3748337.1, 29.0, 29.0, 2.0);
(391896.5, 3748354.0, 29.0, 29.0, 2.0); (391943.5,
3748329.0, 29.0, 29.0, 2.0);
(391942.1, 3748346.0, 29.0, 29.0, 2.0); (391935.3,
3748361.9, 29.0, 29.0, 2.0);
(391897.0, 3748404.4, 29.0, 29.0, 2.0); (391938.9,
3748376.1, 29.0, 29.0, 2.0);
(391932.5, 3748387.6, 29.0, 29.0, 2.0); (391891.7,
3748427.3, 29.0, 29.0, 2.0);
(391929.1, 3748405.4, 29.0, 29.0, 2.0); (391929.4,
3748424.2, 29.0, 29.0, 2.0);
(391929.7, 3748439.2, 29.0, 29.0, 2.0); (391928.7,
3748454.6, 29.0, 29.0, 2.0);
(391897.0, 3748453.1, 29.0, 29.0, 2.0); (391866.1,
3747496.0, 29.0, 29.0, 2.0);
(391854.5, 3747480.5, 29.0, 29.0, 2.0); (391855.5,
3747526.9, 29.0, 29.0, 2.0);
(391854.2, 3747514.0, 29.0, 29.0, 2.0); (391855.2,
3747538.9, 29.0, 29.0, 2.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(391855.5, 3747549.8, 29.0, 29.0, 2.0); (392423.8,
3747240.4, 29.0, 29.0, 2.0);
(391889.9, 3747651.9, 29.0, 29.0, 2.0); (391854.0,
3747577.0, 29.0, 29.0, 2.0);
(391854.2, 3747603.1, 29.0, 29.0, 2.0); (391855.0,
3747615.6, 29.0, 29.0, 2.0);
(391855.6, 3747626.4, 29.0, 29.0, 2.0); (391854.1,
3747455.5, 29.0, 29.0, 2.0);
(391853.4, 3747443.5, 29.0, 29.0, 2.0); (391888.7,
3747380.1, 29.0, 29.0, 2.0);
(391853.6, 3747430.3, 29.0, 29.0, 2.0); (391842.3,
3747485.1, 29.0, 29.0, 2.0);
(391705.1, 3747221.2, 29.0, 29.0, 2.0); (391890.3,
3747198.7, 29.0, 29.0, 2.0);
(391791.8, 3747248.3, 29.0, 29.0,
2.0);

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***

(1=YES; 0=NO)

```
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file:
KLGB_V9_ADJU\KLGB_v9.SFC Met
Version: 16216
Profile file:
KLGB_V9_ADJU\KLGB_v9.PFL
Surface format:
FREE

Profile format:
FREE

Surface station no.: 23129 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	-5.3	0.094	-9.000	-9.000	-999.	70.	14.3	0.10	2.68	1.00	1.13	322.	7.9	282.0	2.0
12	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	2.68	1.00	0.00	0.	7.9	281.4	2.0
12	01	01	1	03	-2.5	0.068	-9.000	-9.000	-999.	43.	11.4	0.10	2.68	1.00	0.74	79.	7.9	280.9	2.0
12	01	01	1	04	-3.2	0.075	-9.000	-9.000	-999.	49.	11.7	0.10	2.68	1.00	0.86				

```
137.    7.9  280.9    2.0
12 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.10   2.68   1.00    0.00
0.    7.9  280.4    2.0
12 01 01   1 06   -5.2  0.093 -9.000 -9.000 -999.   68.     14.0  0.10   2.68   1.00    1.11
92.    7.9  279.9    2.0
12 01 01   1 07   -2.3  0.066 -9.000 -9.000 -999.   41.     11.5  0.10   2.68   1.00    0.69
67.    7.9  278.8    2.0
12 01 01   1 08   -1.7  0.060 -9.000 -9.000 -999.   36.     11.4  0.10   2.68   0.54    0.65
91.    7.9  279.9    2.0
12 01 01   1 09   36.2 -9.000 -9.000 -9.000   37. -999. -99999.0  0.10   2.68   0.31    0.00
0.    7.9  283.8    2.0
12 01 01   1 10  108.4  0.139  0.707  0.009  119.  124.     -2.3  0.10   2.68   0.24    0.92
319.    7.9  287.5    2.0
12 01 01   1 11  160.5  0.114  1.137  0.005  334.   93.     -1.0  0.10   2.68   0.21    0.62
23.    7.9  292.5    2.0
12 01 01   1 12  186.7  0.125  1.473  0.005  623.  105.     -1.0  0.10   2.68   0.20    0.69
18.    7.9  295.4    2.0
12 01 01   1 13  186.8  0.130  1.761  0.005 1065.  112.     -1.1  0.10   2.68   0.20    0.74
250.    7.9  297.5    2.0
12 01 01   1 14  161.7  0.150  1.834  0.005 1387.  139.     -1.9  0.10   2.68   0.21    0.96
347.    7.9  300.4    2.0
12 01 01   1 15  105.5  0.243  1.633  0.005 1499.  288.    -12.4  0.10   2.68   0.24    2.11
194.    7.9  295.9    2.0
12 01 01   1 16   32.4  0.211  1.109  0.005 1530.  233.    -26.3  0.10   2.68   0.33    1.98
186.    7.9  295.4    2.0
12 01 01   1 17  -20.5  0.250 -9.000 -9.000 -999.  300.     69.2  0.10   2.68   0.60    2.81
293.    7.9  291.4    2.0
12 01 01   1 18  -25.4  0.257 -9.000 -9.000 -999.  313.     72.8  0.10   2.68   1.00    2.90
301.    7.9  288.1    2.0
12 01 01   1 19  -21.0  0.211 -9.000 -9.000 -999.  233.     49.0  0.10   2.68   1.00    2.40
313.    7.9  286.4    2.0
12 01 01   1 20  -25.7  0.258 -9.000 -9.000 -999.  315.     73.3  0.10   2.68   1.00    2.91
302.    7.9  286.4    2.0
12 01 01   1 21  -22.5  0.225 -9.000 -9.000 -999.  256.     55.7  0.10   2.68   1.00    2.55
306.    7.9  285.4    2.0
12 01 01   1 22   -9.3  0.126 -9.000 -9.000 -999.  111.     19.5  0.10   2.68   1.00    1.48
284.    7.9  285.9    2.0
12 01 01   1 23  -21.4  0.214 -9.000 -9.000 -999.  237.     50.3  0.10   2.68   1.00    2.43
282.    7.9  285.4    2.0
12 01 01   1 24  -30.1  0.300 -9.000 -9.000 -999.  394.     98.9  0.10   2.68   1.00    3.36
300.    7.9  284.2    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  322.    1.13   282.1   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry
Avenue\14715 Ops\1 ***        09/07/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       12:13:57

                      PAGE   9
 *** 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        , 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 PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391891.24	3747480.41	0.03647	(12121624)	391892.01	3747456.00	0.02899	(12121624)
391965.04	3747447.61	0.04548c	(12122924)	391925.38	3747447.61	0.03715c	(12122924)
392089.38	3747454.66	0.06389c	(12122524)	392112.83	3747454.85	0.06482c	(12122524)
392033.31	3747443.03	0.04916c	(12122524)	392142.39	3747442.46	0.05250c	(12122524)
392336.71	3747437.69	0.02688	(13122724)	392429.96	3747448.18	0.01385	(13040124)
392412.42	3747555.73	0.01456	(15040624)	392343.77	3747480.03	0.02749	(16101624)
392217.30	3747461.24	0.07193c	(12122524)	392161.48	3747408.94	0.03326m	(15020724)
391879.25	3747513.22	0.03493	(12121624)	391891.65	3747546.98	0.04144	(14121624)
391891.84	3747573.68	0.04119	(14121624)	391884.40	3747601.90	0.03493	(12112924)
391891.08	3747641.76	0.03048	(12112924)	391889.35	3747663.46	0.02500	(12112924)
391883.45	3747699.92	0.01790	(12112924)	391881.92	3747730.82	0.01499	(13043024)
391884.40	3747754.47	0.01378	(13043024)	391885.36	3747780.40	0.01254	(16061124)
391883.83	3747768.01	0.01300	(13043024)	391493.56	3748488.26	0.00177	(14083124)
391947.12	3747875.71	0.01042	(16061124)	391983.08	3747875.94	0.01047	(16061124)
391885.46	3747791.74	0.01210	(16061124)	391889.32	3747804.03	0.01184	(16061124)
391887.50	3747815.86	0.01131	(16061124)	391874.76	3747826.10	0.01037	(16061124)
391892.74	3747852.04	0.01028	(16061124)	391892.51	3747880.49	0.00941	(16061124)
392032.89	3747873.67	0.01049	(12041924)	392140.29	3747873.36	0.01041	(16051624)
392233.52	3747864.86	0.00985	(14052424)	392523.19	3747518.42	0.00877	(16101624)
392655.00	3747574.84	0.00514	(15040624)	392733.47	3747870.77	0.00266	(12110824)
391927.56	3747940.84	0.00818	(16061124)	391927.83	3747987.42	0.00704	(16061124)
391940.95	3748045.52	0.00584	(16061124)	391926.76	3748083.27	0.00525	(16061124)
391928.37	3748118.62	0.00483	(12041924)	391927.56	3748149.14	0.00452	(12041924)
391892.49	3747904.69	0.00875	(16061124)	391891.96	3747917.81	0.00840	(16061124)
391891.15	3747931.74	0.00806	(16061124)	391885.26	3747942.98	0.00772	(16061124)
391893.29	3747955.03	0.00756	(16061124)	391893.83	3747978.59	0.00707	(16061124)
391893.03	3747994.39	0.00676	(16061124)	391885.80	3748035.62	0.00599	(16061124)
391893.83	3748088.36	0.00522	(16061124)	391894.63	3748143.78	0.00450	(16061124)

391894.10 3748120.49 0.00479 (16061124) 391894.63
3748155.30 0.00437 (16061124)
391891.15 3748182.87 0.00408 (16061124) 391893.03
3748195.99 0.00396 (12041924)
391927.30 3748191.71 0.00413 (12041924) 391928.64
3748236.15 0.00379 (12041924)
391928.64 3748259.98 0.00361 (12041924) 391894.37
3748207.50 0.00388 (12041924)
391891.15 3748220.09 0.00378 (12041924) 391891.15
3748231.06 0.00370 (12041924)
391891.15 3748243.38 0.00362 (12041924) 391891.15
3748255.70 0.00354 (12041924)
391895.17 3748287.02 0.00337 (12041924) 391895.44
3748311.12 0.00323 (12041924)
391886.07 3748326.91 0.00312 (12041924) 391893.83
3748337.09 0.00309 (12041924)
391896.46 3748353.98 0.00300 (12041924) 391943.47
3748329.02 0.00318 (12041924)
391942.12 3748346.05 0.00308 (12041924) 391935.35
3748361.91 0.00299 (12041924)
391897.02 3748404.40 0.00276 (12041924) 391938.93
3748376.12 0.00292 (12041924)
391932.47 3748387.64 0.00286 (12041924) 391891.74
3748427.33 0.00266 (12041924)

*** 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 , 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_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
391929.07	3748405.45	0.00277	(12041924)	391929.40	3748424.21	0.00269	(12041924)
391929.73	3748439.17	0.00262	(12041924)	391928.74	3748454.63	0.00255	(12041924)
391897.00	3748453.15	0.00256	(12041924)	391866.08	3747495.99	0.02993	(12121624)
391854.46	3747480.49	0.02563	(12121624)	391855.46	3747526.86	0.02802	(14121624)
391854.21	3747513.99	0.02727	(12121624)	391855.21	3747538.86	0.02841	(14121624)
391855.46	3747549.85	0.02862	(14121624)	392423.79	3747240.43	0.00907	(16122724)
391889.87	3747651.95	0.02770	(12112924)	391853.95	3747577.01	0.02714	(14121624)

391854.20 3747603.13 0.02452 (12112924) 391854.95
3747615.63 0.02392 (12112924)
391855.57 3747626.38 0.02316 (12112924) 391854.14
3747455.54 0.02207 (12121624)
391853.42 3747443.48 0.02010 (12121624) 391888.71
3747380.11 0.01609c (12122924)
391853.60 3747430.34 0.01821 (12121624) 391842.26
3747485.07 0.02355 (12121624)
391705.13 3747221.17 0.00484c (12122924) 391890.27
3747198.72 0.00622c (12122924)
391791.77 3747248.29 0.00642c
(12122924)

FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1 *** 09/07/23
*** AERMET - VERSION 16216 ***
*** *** 12:13:57

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	0.07193c ON 12122524	AT (392217.30, 3747461.24, 29.00, 29.00, 2.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14715 Cherry Avenue\14715 Ops\1 *** 09/07/23
*** AERMET - VERSION 16216 ***
*** *** 12:13:57

PAGE 12
*** 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 1017 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 747 Calm Hours Identified

A Total of 270 Missing Hours Identified (0.62 Percent)

******** FATAL ERROR MESSAGES ********

*** NONE ***

******** WARNING MESSAGES ********

ME W186 128 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used 0.50

ME W187 128 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

****

*** AERMOD Finishes Successfully ***

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