AIR QUALITY ASSESSMENT

Latitude Business Park
City of Corona, CA

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EXECUTIVE SUMMARY

This air quality impact study has been completed to determine the air quality impacts associated with the development of the construction and operation of the proposed Latitude Business Park industrial/warehousing development. The proposed Project consists of multiple industrial/office/warehousing buildings totaling 519,665 SF of industrial usage and 456,629 Square Feet (SF) of warehousing usage and 148,000 industrial offices within a 66-acre project site. The Project site is located on the west side of Temescal Canyon Road, between La Gloria Street Road and Tom Barnes Street, in the City of Corona, California. It's expected that the project would be fully operational in 2022.

During construction of the proposed Project, fugitive dust emissions would be expected but would not exceed thresholds established by the South Coast Air Quality Management District (SCAQMD). Given this, no construction mitigation will require mitigation. Furthermore, the project would not generate localized significance threshold impacts with the use of Tier 4 construction equipment. Based on this, Tier 4 construction equipment would be required and would be a condition to this project's approval.

Additionally, emissions will be generated from both project area and operational sources once the project is fully operational in 2022 though no air quality impacts would be expected. The project was analyzed under localized significance thresholds for both construction and operations and was found to generate less than significant impacts.

Finally, the proposed Project would not be expected to generate offensive odors and would therefore not impact any sensitive receptors.

1.0 INTRODUCTION

1.1 Purpose of this Study

The purpose of this Air Quality study is to determine potential air quality impacts (if any) that may be created by construction, area or operational emissions (short term or long term) from the proposed Project. Should impacts be determined, the intent of this study would be to recommend suitable mitigation measures to bring those impacts to a level that would be considered less than significant.

1.2 Project Location

The Project site is located on the west side of Temescal Canyon Road, between La Gloria Street Road and Tom Barnes Street, in the City of Corona, California within the South Coast Air Basin (SCAB). A general project vicinity map is shown in Figure 1-A.

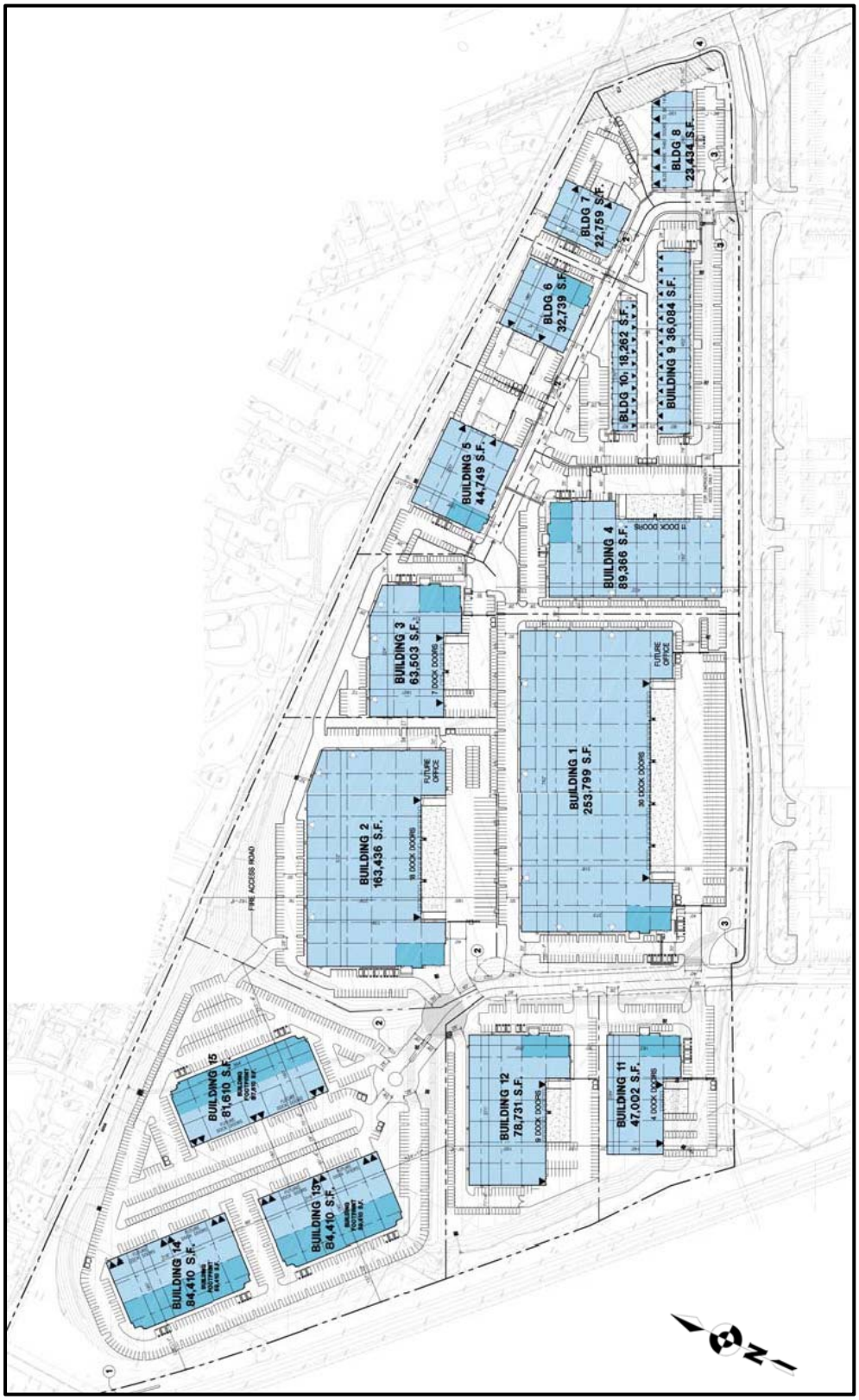
1.3 Project Description

The proposed Latitude Business Park Project consists of developing multiple industrial/office/warehousing buildings totaling 1,124,290 square-feet (SF) with buildings ranging from 253,799 SF to 18,262 SF. The Project site is currently vacant and is located on the northwest quadrant of Temescal Canyon Road and Tom Barnes Street. Also, as a design feature, the project would utilize Tier 4 construction equipment. The project would occur over two phases. A site plan map is shown in Figure 1-B.

Figure 1-A: Project Vicinity Map

Source: (Google, 2019)

Figure 1-B: Site Plan Map



Source: (HPA Architecture, 2019)

2.0 EXISTING ENVIRONMENTAL SETTING

2.1 Existing Setting

The existing Project site is vacant and has been rough graded. Adjacent surrounding land uses are industrial, agricultural and residential to the north, commercial retail to the south, interstate 15 to the west and a covered storage lot to the east. The site topography is characterized by lightly sloping with elevations ranging from approximately 840 feet in the east to 860 feet above mean sea level in the west.

2.2 Climate and Meteorology

Climate within the SCAB area often varies dramatically over short geographical distances due to the size and topography. Most of southern California is dominated by high-pressure systems for much of the year, which keeps Corona mostly sunny and warm. Typically, during the winter months, the high-pressure system drops to the south and brings cooler, moister weather from the north.

It is common for inversion layers to develop within high-pressure areas, which mostly define pressure patterns over the SCAB. These inversions are caused when a thin layer of the atmosphere increases in temperature with height. An inversion acts like a lid preventing vertical mixing of air through convective overturning.

Daytime temperature highs within the City of Corona typically range between 66 ºF in the winter to approximately 99 ºF in the summer with the month of August usually being the hottest month. Corona usually receives an average seasonal precipitation of 12.45 inches of rain per year with the month of January usually being the wettest month of the year (U.S. Climate Data, 2019).

2.3 Regulatory Standards

2.3.1 Federal Standards and Definitions

The Federal Air Quality Standards were developed per the requirements of The Federal Clean Air Act, which is a federal law that was passed in 1970 and further amended in 1990. This law provides the basis for the national air pollution control effort. An important element of the act included the development of national ambient air quality standards (NAAQS) for major air pollutants.

The Clean Air Act established two types of air quality standards otherwise known as primary and secondary standards. ***Primary Standards*** set limits for the intention of protecting public health, which includes sensitive populations such as asthmatics, children and elderly. ***Secondary Standards*** set limits to protect public welfare to include the protection against decreased visibility, damage to animals, crops, vegetation and buildings.

The EPA Office of Air Quality Planning and Standards (OAQPS) has set National Ambient Air Quality Standards for principal pollutants, which are called "criteria" pollutants. These pollutants are defined below:

1. *Carbon Monoxide (CO): is a colorless, odorless, and tasteless gas and is produced from the partial combustion of carbon-containing compounds, notably in internal-combustion engines. Carbon monoxide usually forms when there is a reduced availability of oxygen present during the combustion process. Exposure to CO near the levels of the ambient air quality standards can lead to fatigue, headaches, confusion, and dizziness. CO interferes with the blood's ability to carry oxygen.*
2. *Lead (Pb): is a potent neurotoxin that accumulates in soft tissues and bone over time. The major sources of lead emissions have historically been motor vehicles (such as cars and trucks) and industrial sources. Because lead is only slowly excreted, exposures to small amounts of lead from a variety of sources can accumulate to harmful levels. Effects from inhalation of lead near the level of the ambient air quality standard include impaired blood formation and nerve conduction. Lead can adversely affect the nervous, reproductive, digestive, immune, and blood-forming systems. Symptoms can include fatigue, anxiety, short-term memory loss, depression, weakness in the extremities, and learning disabilities in children.*
3. *Nitrogen Dioxide (NO_2): is a reactive, oxidizing gas capable of damaging cells lining the respiratory tract and is one of the nitrogen oxides emitted from high-temperature combustion, such as those occurring in trucks, cars, power plants, home heaters, and gas stoves. In the presence of other air contaminants, NO_2 is usually visible as a reddish-brown air layer over urban areas. NO_2 along with other traffic-related pollutants is associated with respiratory symptoms, respiratory illness and respiratory impairment. Studies in animals have reported biochemical, structural, and cellular changes in the lung when exposed to NO_2 above the level of the current state air quality standard. Clinical studies of human subjects suggest that NO_2 exposure to levels near the current standard may worsen the effect of allergens in allergic asthmatics, especially in children.*
4. *Particulate Matter (PM_{10} or $PM_{2.5}$): is a complex mixture of tiny particles that consists of dry solid fragments, solid cores with liquid coatings, and small droplets of liquid. These particles vary in shape, size and chemical composition, and can be made up of multiple materials such as metal, soot, soil, and dust. PM_{10} particles are 10 microns (μm) or less and $PM_{2.5}$ particles are 2.5 (μm) or less. These particles can contribute significantly to regional haze and reduction of visibility in California. Exposure to PM levels exceeding current air quality standards increases the risk of allergies such as asthma and respiratory illness.*
5. *Ozone (O_3): is a highly oxidative unstable gas capable of damaging the linings of the respiratory tract. This pollutant forms in the atmosphere through reactions between chemicals directly emitted from vehicles, industrial plants, and many other sources. Exposure to ozone above ambient air quality standards can lead to*

human health effects such as lung inflammation, tissue damage and impaired lung functioning. Ozone can also damage materials such as rubber, fabrics and plastics.

6. *Sulfur Dioxide (SO_2): is a gaseous compound of sulfur and oxygen and is formed when sulfur-containing fuel is burned by mobile sources, such as locomotives, ships, and off-road diesel equipment. SO_2 is also emitted from several industrial processes, such as petroleum refining and metal processing. Effects from SO_2 exposures at levels near the one-hour standard include bronchoconstriction accompanied by symptoms, which may include wheezing, shortness of breath and chest tightness, especially during exercise or physical activity. Children, the elderly, and people with asthma, cardiovascular disease or chronic lung disease (such as bronchitis or emphysema) are most susceptible to these symptoms. Continued exposure at elevated levels of SO_2 results in increased incidence of pulmonary symptoms and disease, decreased pulmonary function, and increased risk of mortality.*

2.3.2 State Standards and Definitions

The State of California Air Resources Board (ARB) sets the laws and regulations for air quality on the state level. The California Ambient Air Quality Standards (CAAQS) are either the same as or more restrictive then the NAAQS and also restrict four additional contaminants. Table 2.1 on the following page identifies both the NAAQS and CAAQS. The additional contaminants as regulated by the CAAQS are defined below:

1. *Visibility Reducing Particles: Particles in the Air that obstruct the visibility.*
2. *Sulfates: are salts of Sulfuric Acid. Sulfates occur as microscopic particles (aerosols) resulting from fossil fuel and biomass combustion. They increase the acidity of the atmosphere and form acid rain.*
3. *Hydrogen Sulfide (H_2S): is a colorless, toxic and flammable gas with a recognizable smell of rotten eggs or flatulence. H_2S occurs naturally in crude petroleum, natural gas, volcanic gases, and hot springs. Usually, H_2S is formed from bacterial breakdown of organic matter. Exposure to low concentrations of hydrogen sulfide may cause irritation to the eyes, nose, or throat. It may also cause difficulty in breathing for some asthmatics. Brief exposures to high concentrations of hydrogen sulfide (greater than 500 ppm) can cause a loss of consciousness and possibly death.*
4. *Vinyl Chloride: also known as chloroethene and is a toxic, carcinogenic, colorless gas with a sweet odor. It is an industrial chemical mainly used to produce its polymer, polyvinyl chloride (PVC).*

Table 2.1: Ambient Air Quality Standards

Ambient Air Quality Standards						
Pollutant	**Average Time**	**California Standards[1]**		**Federal 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/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 (PM2.5)[9]	24 Hour	No Separate State Standard		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)	8 hour	9.0 ppm (10mg/m3)	Non-Dispersive Infrared Photometry (NDIR)	9 ppm (10 mg/m3)	-	Non-Dispersive Infrared Photometry
	1 hour	20 ppm (23 mg/m3)		35 ppm (40 mg/m3)		
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m3)		-	-	-
Nitrogen Dioxide (NO_2)[10]	Annual Arithmetic Mean	0.030 ppm (57 µg/m3)	Gas Phase Chemiluminescence	0.053 ppm (100 µg/m3)[8]	Same as Primary Standard	Gas Phase Chemiluminescence
	1 Hour	0.18 ppm (339 µg/m3)		0.100 ppm[8] (188/ µg/m3)	-	
Sulfur Dioxide (SO_2)[11]	Annual Arithmetic Mean	-	Ultraviolet Fluorescence	0.030 ppm[10] (for Certain Areas)	-	Ultraviolet Fluorescence; Spectrophotometry (Pararoosaniline Method)[9]
	24 Hour	0.04 ppm (105 µg/m3)		0.14 ppm[10] (for Certain Areas) (See Footnote 9)	-	
	3 Hour	-		-	0.5 ppm (1300 µg/m3)	
	1 Hour	0.25 ppm (655 µg/m3)		75 ppb (196 µg/m3)	-	
Lead[12,13]	30 Day Average	1.5 µg/m3	Atomic Absorption	-		-
	Calendar Quarter	-		1.5 µg/m3	Same as Primary Standard	High Volume Sampler and Atomic Absorption
	Rolling 3-Month Average	-		0.15 µg/m3		
Visibility Reducing Particles	8 Hour	See footnote 14				
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			

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 µg/m3 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 procedure 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 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 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 µg/m3 to 12.0 µg/m3 . The existing national 24- hour PM2.5 standards (primary and secondary) were retained at 35 µg/m3 , as was the annual secondary standard of 15 µg/m3 . The existing 24-hour PM10 standards (primary and secondary) of 150 µg/m3 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 SO2 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 SO2 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.
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 µg/m3 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.

Source: (California Air Resources Board, 5/4/2016)

2.3.3 Regional Standards

The State of California has 35 specific air districts, which are each responsible for ensuring that the criteria pollutants are below the NAAQS and CAAQS. Air basins that exceed either the NAAQS or the CAAQS for any criteria pollutants for designated periods defined in the footnote of Table 2.1 above are designated as "non-attainment areas" for that pollutant. Currently, there are 15 non-attainment areas for the federal ozone standard and two non-attainment areas for the $PM_{2.5}$ standard. The state therefore created the California State Implementation Plan (SIP), which is designed to provide control measures needed for California Air basins to attain ambient air quality standards.

The SCAQMD has jurisdiction over an area of approximately 10,743 square miles, consisting of the South Coast Air Basin, and the Riverside County portions of the Salton Sea Air Basin (SSAB) and Mojave Desert Air Basin (MDAB). The district prepares Air Quality Management Plans (AQMP) to demonstrate how the region will reduce air pollution emissions to meet the federal and state health-based standards to comply with Clean Air Act requirements and will be ultimately a part of the SIP. SCAQMDs latest adopted AQMP was adopted in March of 2017 (SCAQMD, 2017).

More specifically, the AQMP identifies the path South Coast Air Basin must take for the attainment of federal PM and ozone standards, and highlights the significant amount of reductions needed and the urgent need to engage in interagency coordinated planning to identify additional strategies, especially in the area of mobile sources, to meet all federal criteria pollutant standards within the timeframes allowed under the federal Clean Air Act.

The City of Corona lies within the SCAB. The SCAQMD is the government agency, which regulates sources of air pollution within the City of Corona. A complete listing of the current attainment status by pollutants for the SCAB is shown on Table 2.2 on the following page (SCAQMD, 2016).

Table 2.2: South Coast Air Basin Attainment Status by Pollutant

County Air Basin Attainment Status by Pollutant			
Pollutant	Average Time	California Standards	Federal Standards
Ozone (O_3)	1 Hour	Non-attainment	Extreme Nonattainment
	8 Hour		
Respirable Particulate Matter (PM10)	24 Hour	Non-attainment	Attainment Maintenance[1]
	Annual Arithmetic Mean		N/A
Fine Particulate Matter PM2.5	24 Hour	No State Standard	Non-attainment (Serious)
	Annual Arithmetic Mean	Non-attainment	Non-attainment (Serious)
Carbon Monoxide (CO)	8 hour	Attainment	Attainment Maintenance[1]
	1 hour		
Nitrogen Dioxide (NO_2)	Annual Arithmetic Mean	Attainment	Attainment Maintenance1
	1 Hour		Unclassifiable/Attainment
Sulfur Dioxide (SO_2)	Annual Arithmetic Mean	No State Standard	Attainment
	24 Hour		Attainment
	1 Hour		Unclassifiable/Attainment
Lead	30 Day Average	Attainment	No Federal Standard
	Calendar Quarter		Attainment

1. Maintenance Area (defined by U.S. Department of Transportation) is any geographic region of the United States previously designated nonattainment pursuant to the CAA Amendments of 1990 and subsequently redesignated to attainment subject to the requirement to develop a maintenance plan under section 175A of the CAA, as amended.

2.4 California Environmental Quality Act (CEQA) Significance Thresholds

The California Environmental Quality Act has provided a checklist to identify the significance of air quality impacts. These guidelines are found in Appendix G of the CEQA guidelines and are as follows:

AIR QUALITY -- Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations. Would the Project:

A: Conflict with or obstruct implementation of the SCAQMD AQMP or applicable portions of the State Implementation Plan (SIP)?

B: Result in emissions that would violate any air quality standard or contribute substantially to an existing or projected air quality violation?

C: Result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is non-attainment under an applicable Federal or State ambient air quality standard (PM10, PM2.5 or exceed quantitative thresholds for O3 precursors, oxides of nitrogen [NOX] and Volatile Organic Compounds [VOCs])?

D: Expose sensitive receptors (including, but not limited to, schools, hospitals, resident care facilities, or day-care centers) to substantial pollutant concentrations?

E: Create objectionable odors affecting a substantial number of people?

2.5 Air Quality Impact Assessment Screening Thresholds

To determine whether a project would create potential air quality impacts, the City of Corona uses South Coast Air Quality Management District's (SQAQMD) Air Quality Thresholds. The screening thresholds for construction and daily operations are shown in Table 2.3 below. Demonstrating a projects compliance with SCAQMD Screening thresholds are a significant part of demonstrating compliance with SCAQMDs AQMP and is critical to insuring less than significant impacts to questions A and B identified in section 2.4 above.

Table 2.3: Screening Threshold for Criteria Pollutants

Pollutant	Total Emissions (Pounds per Day)
Construction Emissions	
Respirable Particulate Matter (PM_{10} and $PM_{2.5}$)	150 and 55
Nitrogen Oxide (NO_x)	100
Sulfur Oxide (SO_x)	150
Carbon Monoxide (CO)	550
Volatile Organic Compounds (VOCs)	75
Operational Emissions	
Respirable Particulate Matter (PM_{10} and $PM_{2.5}$)	150 and 55
Nitrogen Oxide (NO_x)	55
Sulfur Oxide (SO_x)	150
Carbon Monoxide (CO)	550
Lead and Lead Compounds	3.2
Volatile Organic Compounds (VOCs)	55

In 1987, the California legislature adopted the Air Toxics "Hot Spots" Information and Assessment Act; also known as Assembly Bill 2588 (or AB 2588). The goals of the Assembly Bill are to collect emissions data, identify facilities having localized impacts to determine health risks, and notify affected individuals. High priority facilities must prepare a Health Risk Assessment (HRA). This Assembly bill is primarily geared toward mitigating long term fixed sources health risks above the action risk levels. SCAQMD has a number of rules which were prepared to meet AB 2588 goals (i.e. Rules 1401, 1402 and 212) (SCAQMD, 2015) but none specific to short term construction projects. Projects or facilities found to increase action risk levels require mitigation and reporting.

Toxic Air Contaminants (TACs) are regulated by the SCAQMD under Rule 1401, 1402 and 212 which were developed to identify requirements for reporting and requires evaluation of potential health risks for any new, relocated, or modified emission units (fixed sources) which may increase emissions of one or more toxic air contaminants. The rule requires that projects that propose to increase cancer risk to greater than one in one million need to implement toxics best available control technology (T-BACT) or impose the most effective emission limitation, emission control device or control technique to reduce the cancer risk.

Diesel particulate matter emissions were identified as a TAC by California Air Resources Board (CARB) in 1998, and were added to SCAQMD Rule 1401 list of compounds on March 7, 2008. Under the current AB2588 Air Toxics "Hot Spots" Emission Inventory Criteria and Guidelines Regulation, facility operators are required to include health risk impacts of any diesel exhaust particulate emissions from stationary emergency and prime compression ignition internal combustion engines, as well as portable diesel engines. The SCAQMD Governing Board has adopted risk levels for purposes of notification pursuant to the AB2588 program. Based on this guidance, if the cancer risk is Greater than 10 in a million the public must be notified. If the risk is Greater than 25 in one million the risk shall be mitigated.

The State of California's Office of Environmental Health Hazard Assessment (OEHHA) published revised health risk assessment guidance that places greater emphasis on early childhood exposure and suggests that construction projects as short as 2-6 months may warrant evaluation (OEHHA, 2015). Based on this guidance, this report assumes that if the cancer risks from TACs is Greater than 10 in a million the public must be notified. If the risk is Greater than 25 in one million the risk shall be mitigated. Risks below 10 in a million would be considered less than significant.

2.6 Local Air Quality

Criteria pollutants are measured continuously throughout the SCAB. This data is used to track ambient air quality patterns throughout the surrounding area. As mentioned earlier, this data is also used to determine attainment status when compared to the NAAQS and CAAQS. The SCAPCD is responsible for monitoring and reporting monitoring data. The District operates approximately 30 monitoring sites that collected data on criteria pollutants within the SCAB.

Ambient Data was obtained from the California Environmental Protection Agency's Air Resources Board Website (California Air Resources Board, 2018). Table 2.4 identifies the closest criteria pollutants monitored to the project as well as identifies the relative distance to the project site. The Lake Elsinore monitoring station is located approximately 16 miles from the proposed project site.

Table 2.4: Three-Year Ambient Air Quality Summary near the Project Site

Pollutant	Ambient Monitoring Site	Averaging Time	CAAQS	NAAQS	2015	2016	2017
O_3 (ppm)	Lake Elsinore	1 Hour	0.09 ppm	-	0.131	0.124	0.121
	Lake Elsinore	8 Hour	0.070 ppm	0.075 ppm	0.098	0.093	0.098
PM_{10} ($\mu g/m^3$)	Lake Elsinore	24 Hour	50 $\mu g/m^3$	150 $\mu g/m^3$	90.7	99.7	134.1
	Lake Elsinore	Annual Arithmetic Mean	20 $\mu g/m^3$	-	20.1	22.4	23.6
$PM_{2.5}$ ($\mu g/m^3$)	Lake Elsinore	24 Hour	-	35 $\mu g/m^3$	41.7	31.5	27.2
	Lake Elsinore	Annual Arithmetic Mean	12 $\mu g/m^3$	15 $\mu g/m^3$	-	9.7	11.3
NO_2 (ppm)	Lake Elsinore	Annual Arithmetic Mean	0.030 ppm	0.053 ppm	0.008	0.008	0.008
	Lake Elsinore	1 Hour	0.18 ppm	-	0.047	0.051	0.049

All ambient emissions reported are assumed to be taken by the district in compliance with both the NAAQS and CAAQS. Methodologies for those measurements are discussed in Table 2.1 of this report.

2.7 Localized Significance Thresholds

In June 2003 SCAQMD proposed a methodology for calculating Localized Significance Thresholds (LSTs) for NO_2, CO, $PM_{2.5}$ and PM_{10}. The LST methodology was developed to be used as a tool to assist lead agencies to analyze localized impacts associated with project-specific level proposed projects and would not be applicable to regional projects such as general plans. The LST methodology was last updated to incorporate the most recent ambient air quality standards (South Coast Air Quality Management District, 2008). The LST methodology is often utilized by most agencies governed under SCAQMD CEQA review which would include the County of Riverside.

SCAQMD developed mass rate look-up tables for projects less than five acres to assist agencies with development of LSTs, however LST guidelines recommend project specific air quality dispersion modeling for projects greater than five acres (South Coast Air Quality Management District, 2014). Air dispersion modeling utilizing AERMOD Version 18081 which replaced ISCS3 as the preferred dispersion modeling. The software has the ability to

incorporate meteorological inputs as well as multiple source and receptor locations and is now used throughout the world.

Per the requirements of SCAQMDs LSTs methodology, emissions for gases in attainment such as NO_2 and CO are calculated by adding emission impacts from the project development to the peak background ambient NO_2 and CO concentrations and comparing the total concentration to the most stringent ambient air quality standards. Also, according to SCAQMD Rule 403, emissions for non-attainment particulate matter such as PM 10 and PM 2.5 can produce no more than 10.4 $\mu g/m^3$. Demonstrating a projects compliance with SCAQMD Screening thresholds demonstrate compliance with SCAQMDs AQMP and is critical to insuring less than significant impacts to questions A and B identified in Section 2.4 above.

3.0 METHODOLOGY

3.1 Construction Emissions Calculations

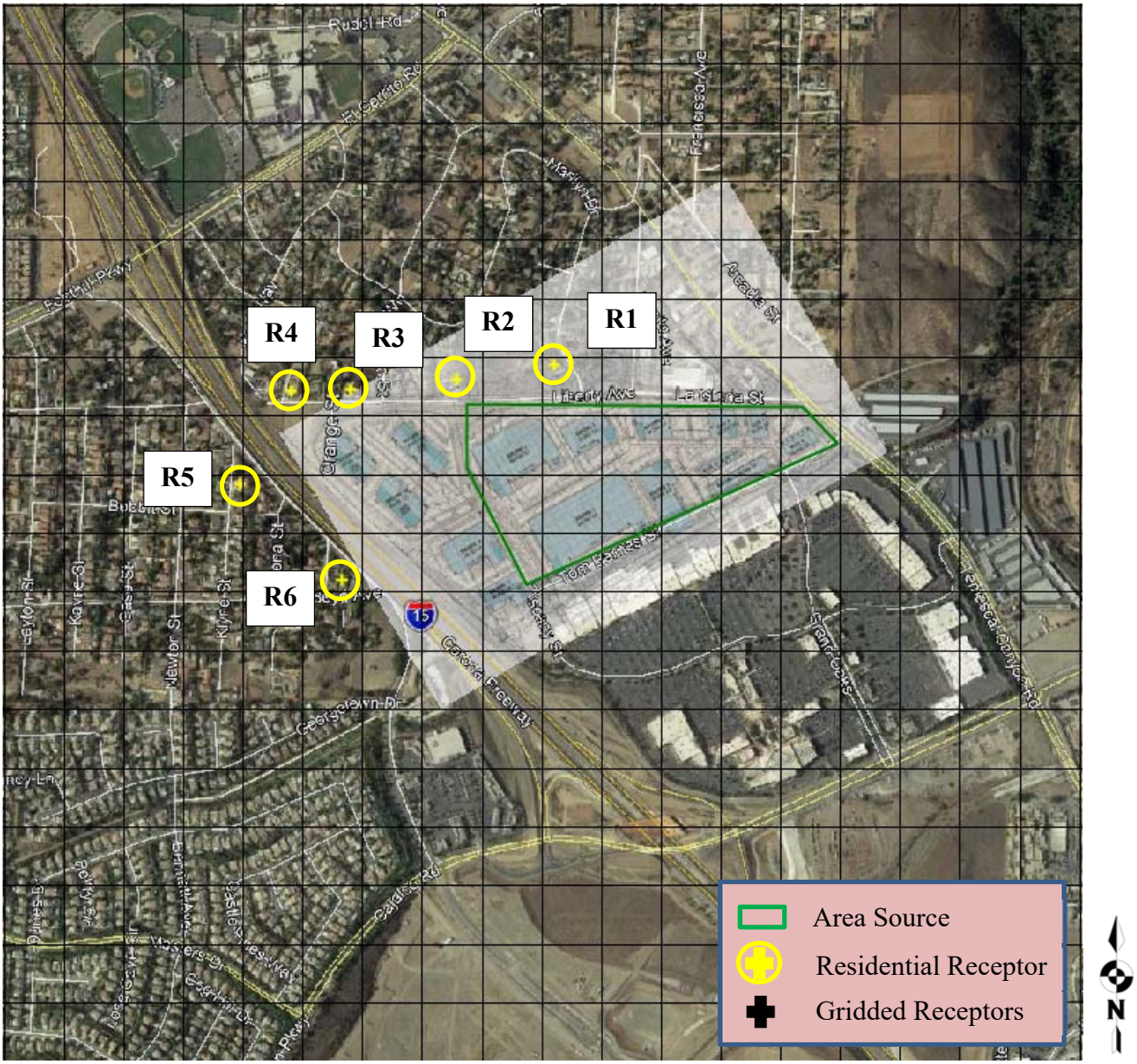
Air Quality impacts related to construction and daily operations were calculated using the latest CalEEMod air quality model, which was developed by ENVIRON International Corporation for SCAQMD. The construction module in CalEEMod calculates the emissions associated with the construction of the project using methodologies presented in the US EPA AP-42 document with emphasis on Chapter 11.9. The CalEEMod input/output model is shown in ***Attachment A*** to this report. Air dispersion modeling utilizing AERMOD Version 18081 is the preferred dispersion modeling software used within this analysis. A graphical representation of the modeling locations is shown on an aerial below in Figure 3-A. The grid represents a receptor matrix used by AERMOD to calculate emission contours. Also, four sensitive receptors were added to determine annual diesel exhaust emissions at discrete sensitive receptor locations (nearest homes) and are represented by yellow circles. The proposed project would be built out in two phases however for purposes of a worst-case analysis, the project was analyzed over one phase.

Using AERMOD the dispersed concentrations of diesel particulates are estimated at the nearest residential homes and are used to evaluate estimated risk exposure. Exposure is evaluated by calculating the dose in milligrams per kilogram body weight per day (mg/kg/d). For residential exposure, the breathing rates are determined for specific age groups, so inhalation dose (Dose-air) is calculated for each of these age groups, 3rd trimester, 0<2, 2<9, 2<16, 16<30 and 16-70 years. The following algorithms calculate this dose for exposure through the inhalation pathways. The worst case cancer risk dose calculation is defined in Equation 1 below (OEHHA, 2015).

Equation 1 $$Dose_{air} = C_{air} * (BR/BW) * A * EF * (1x10^{-6})$$

$Dose_{air}$	=	Dose through inhalation (mg/kg/d)
C_{air}	=	Concentration in air (µg/m3) Annual average DPM concentration in µg/m3 - AERMOD Annual Concentration.
BR/BW	=	Daily breathing rate normalized to body weight (L/kg BW-day). See Table I.2 for the daily breathing rate for each age range.
A	=	Inhalation absorption factor (assumed to be 1)
EF	=	Exposure frequency (unitless, days/365 days)
1x10-6	=	Milligrams to micrograms conversion (10^{-3} mg/ µg), cubic meters to liters conversion (10^{-3} m^3/l)

Figure 3-A: AERMOD PM_{10} Exhaust – Model Setup



Once the dose is determined then you must calculate the cancer risk. The average daily inhalation dose (mg/kg-day) multiplied by the cancer potency factor $(mg/kg\text{-}day)^{-1}$ will give the inhalation cancer risk (unitless), which is an expression of the chemical's cancer risk during a 70-year lifespan of exposure. Cancer risk is calculated by multiplying the daily inhalation or oral dose, by a cancer potency factor, the age sensitivity factor, the frequency of time spent at home and the exposure duration divided by averaging time, to yield the excess cancer risk. As described below, the excess cancer risk is calculated separately for each age grouping and then summed to yield cancer risk for any given location. Specific factors as modeled are shown within the project models attached to this report. The worst case cancer risk calculation is defined in Equation 2 below (OEHHA, 2015).

Equation 2

$$RISKinh\text{-}res = DOSEair \times CPF \times ASF \times ED/AT \times FAH$$

RISKinh-res	=	Residential inhalation cancer risk
DOSEair	=	Daily inhalation dose (mg/kg-day)
CPF	=	Inhalation cancer potency factor $(mg/kg\text{-}day^{-1})$
ASF	=	Age sensitivity factor for a specified age group (unitless)
ED	=	Exposure duration (in years) for a specified age group
AT	=	Averaging time for lifetime cancer risk (years)
FAH	=	Fraction of time spent at home (unitless)

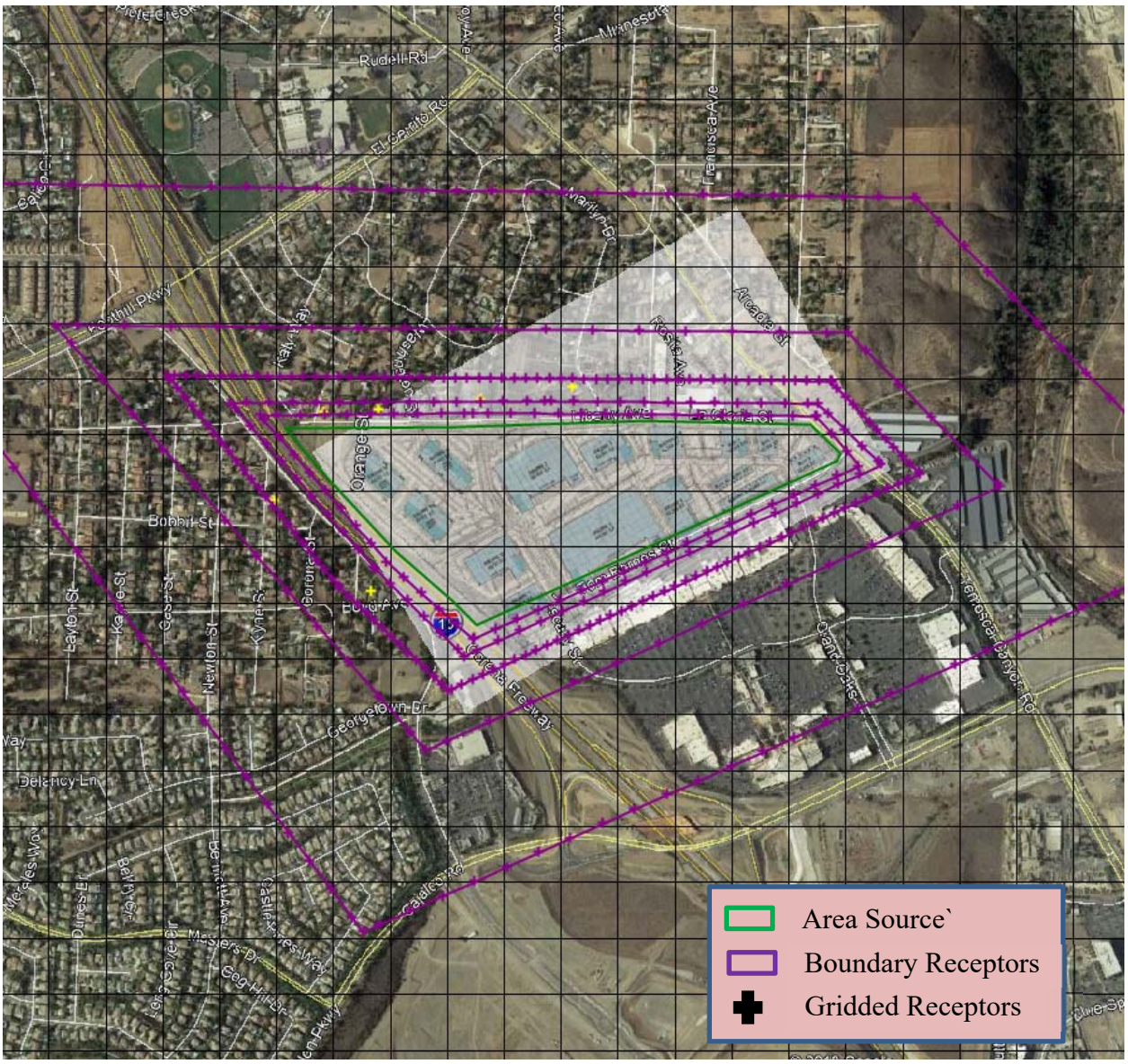
OEHHA recommends that an exposure duration (residency time) of 30 years be used to estimate individual cancer risk for the Maximally Exposed Individual Resident (MEIR). OEHHA also recommends that the 30-year exposure duration be used as the basis for public notification and risk reduction audits and plans. Exposure durations of 9-years and 70-years are also recommended to be evaluated for the MEIR to show the range of cancer risk based on residency periods. If a facility is notifying the public regarding cancer risk, the 9-and 70-year cancer risk estimates are useful for people who have resided in their current residence for periods shorter and longer than 30 years.

Demonstrating a projects compliance with OEHHA Cancer Risk thresholds are a significant part of demonstrating compliance with SCAQMDs AQMP and is critical to insuring less than significant impacts under CEQA.

3.2 Localized Threshold Construction Impacts

Utilizing the AERMOD dispersion model, project level air quality emissions for NO_x, and PM_{10} emissions were calculated utilizing an area source method with an area equal to the project boundaries and a source height of 3 meters. A series of concentric boundary receptors (Purple Polygons) was then utilized which represents the typical distances used by SCAQMD to calculate LSTs. The layout of the site is shown below in Figure 3-B.

Figure 3-B: AERMOD Area Source Modeling and Boundary Sources



Based on SCAQMD information, LST concentrations for PM_{10} is 10.4 µg/m^3 whenever background PM emissions exceed ambient air quality thresholds. To derive LST concentrations for NO_2, the difference between the ambient air quality standard and the ambient concentration for the pollutant must be determined. The following equation is used:

Where: C_{PC} = Project contribution emission levels in micrograms per cubic meter; and
C_b = Background Concentration measured at the closest air quality monitoring station in micrograms per cubic meter; and
C_{AAQS} = is the limiting state or federal standards in micrograms per cubic meter.

3.3 Construction Assumptions

The Project construction dates were estimated based a construction kickoff in early 2020 with earthwork expected to last about 3 months. Once all the earthwork is completed, the project would pave the roads and the start building construction. Buildout of the project would be expected in middle of 2021 as a worst-case assumption. Table 3.1 shows the expected timeframes for the construction processes for all the project infrastructure, facilities, improvements and residential structures at the proposed project location as well as the expected number of pieces of equipment.

Table 3.1: Expected Construction Equipment

Equipment Identification	Proposed Start	Proposed Completion	Quantity
Site Preparation	01/01/2020	01/14/2020	
Rubber Tired Dozers			3
Tractors/Loaders/Backhoes			4
Grading	01/15/2020	02/25/2020	
Excavators			2
Graders			1
Rubber Tired Dozers			1
Scrapers			2
Tractors/Loaders/Backhoes			2
Paving	02/26/2020	03/24/2020	
Pavers			2
Paving Equipment			2
Rollers			2
Building Construction	03/25/2020	05/18/2021	
Cranes			1
Forklifts			3
Generator Sets			1
Tractors/Loaders/Backhoes			3
Welders			1
Architectural Coating	08/12/2020	05/18/2021	
Air Compressors			1
This equipment list is based upon equipment inventory and estimates within CalEEMod 2016.3.2.			

Air Quality impacts related to construction will be calculated using the latest CalEEMod 2016.3.2 air quality model which was developed by Breeze Software for the South Coast Air Quality Management District (SCAQMD). CalEEMod incorporates emission factors from the EMFAC2014 model for on-road vehicle emissions and the OFFROAD2011 model for off-road vehicle emissions.

3.4 Operational Emissions

Once construction is completed the proposed project would generate emissions from daily operations which would include sources such as Area, Energy, Mobile, Waste and Water uses, which are also calculated within CalEEMod. Area Sources include consumer products, landscaping and architectural coatings as part of regular maintenance. Energy sources would be from uses such as electricity and natural gas. Finally, mobile or transportation related emissions are calculated in CalEEMod through the use of EMFAC2014. The Operational model is also shown in ***Attachment A*** at the end of this report.

The Project traffic engineer estimated that there will be 4,127 daily trips which were broken down within the project traffic study (LL&G Engineers, 2019). These traffic numbers were utilized within the CalEEMod analysis. The model also estimates emission predictions for ROG, NOx, CO, SO_2, PM_{10} and $PM_{2.5}$ for area source assumptions. Additionally, the model was updated to reflect the estimated 54,140 weekday Vehicle Miles Traveled (VMT) expected by the project (FEHR PEER, 2019). Given this, over the approximate 260 weekdays within any given year, the project would generate 14,076,400 VMT yearly.

3.5 Odor Impacts (Onsite)

Potential onsite odor generators would include short term construction odors from activities such as paving and possibly painting. The construction odors would be considered short term and would not be considered an impact. Given this the Project will not have a potential to create offensive odors and would therefore not be considered an impact under CEQA.

4.0 FINDINGS

4.1 Construction Findings

Table 4.1 shows the calculated emissions from construction. Based on the results, no significant construction impacts are expected.

Table 4.1: Expected Construction Emissions Summary

Year	ROG	NO_x	CO	SO_2	PM_{10} (Dust)	PM_{10} (Exhaust)	PM_{10} (Total)	$PM_{2.5}$ (Dust)	$PM_{2.5}$ (Exhaust)	$PM_{2.5}$ (Total)
2020 (lb/day)	27.07	50.26	36.83	0.10	18.27	2.20	20.47	9.98	2.02	12.01
2021 (lb/day)	26.65	31.46	35.08	0.10	4.90	1.11	6.01	1.32	1.05	2.36
Significance Threshold (lb/day)	**75**	**100**	**550**	**150**	**-**	**-**	**150**	**-**	**-**	**55**
Exceeds Screening Threshold	**No**	**No**	**No**	**No**	**-**	**-**	**No**	**-**	**-**	**No**

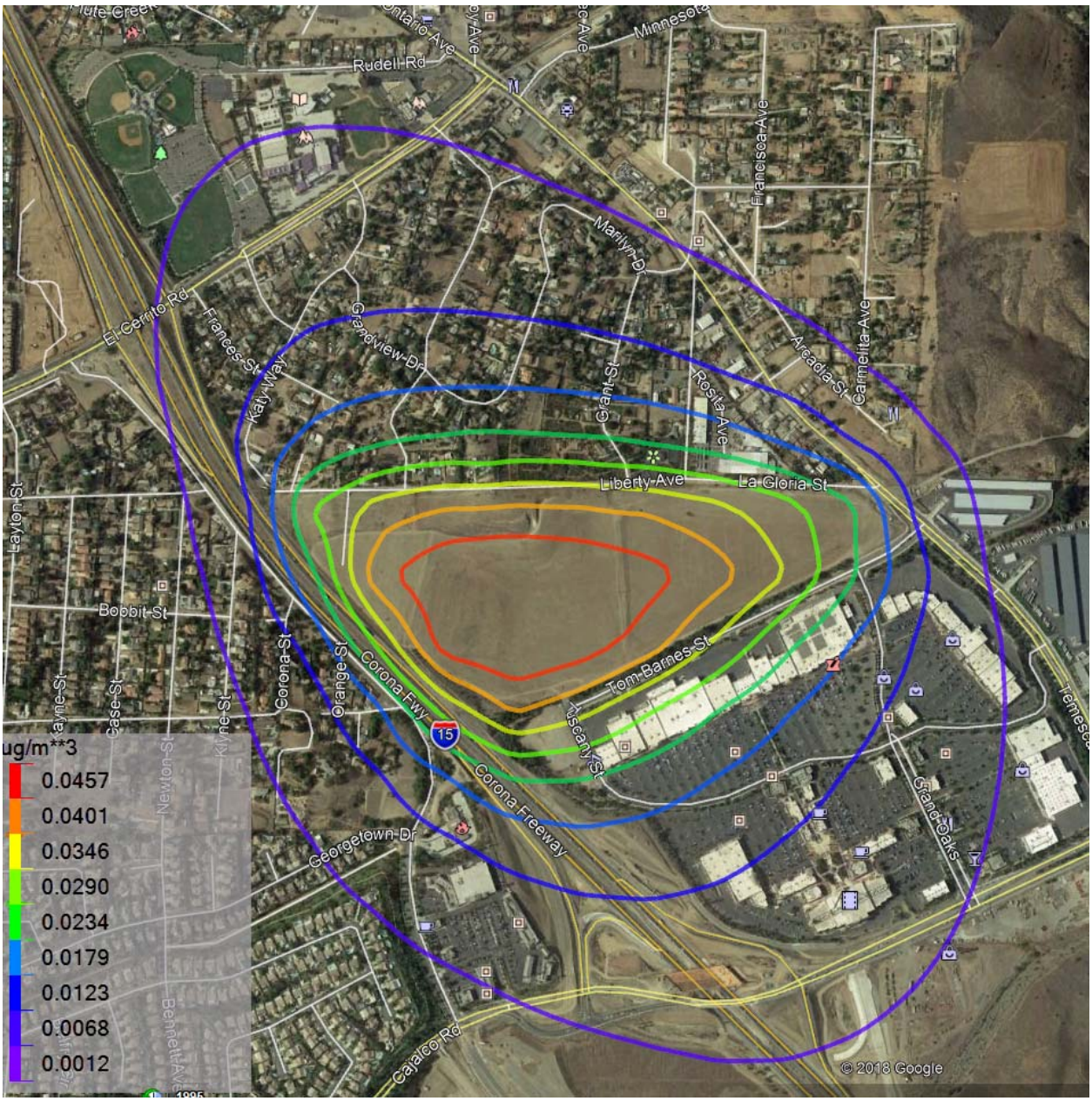
4.2 Health Risk

Based on the modeling, PM_{10} from onsite construction equipment would cumulatively produce 0.01095 tons over the construction duration (503-calendar days) or an average of 0.00023 grams/second. It should be noted: the project would utilize Tier 4 equipment. The average emission rate over the grading area is 8.61×10^{-10} g/m^2/s, which was calculated as follows:

$$\frac{0.00023\,\frac{grams}{second}}{66 acres * 4{,}046\,\frac{meters^2}{acre}} = 8.61 * 10^{-10}\ \frac{\frac{grams}{meters^2}}{second}$$

Utilizing the AERMOD dispersion model, we find that the peak maximum concentration is 0.0299 µg/m^3 at the nearest residential receptor to the north during the worst-case construction period. Therefore, utilizing the risk equation identified above in Section 3.1, the inhalation cancer risk for 70 years is 7.24 which will not exceed the 10 in one million thresholds. It should be noted: that the design feature to utilize Tier 4 diesel construction equipment during construction will be a condition of the project. Given this, the construction would be considered less than significant under CEQA and would be in compliance. The emissions outputs are shown visually in Figures 4-A. The PM_{10} exhaust AERMOD input/output is provided in ***Attachment B*** and the Cancer Risk calculations is provided in ***Attachment C***.

Figure 4-A: PM_{10} Exhaust – Annual Maximum Construction AERMOD Plot



4.3 Localized Significance Thresholds for Construction

SCAQMD also recommend using LST methodology which incorporates background ambient air quality data. LDN consulting utilized the AERMOD dispersion model for these calculations using an urban setting to determine project level emissions for NOx and PM10. Emissions were calculated utilizing multiple point sources over the project site. Total construction emissions were used as taken from CalEEMod and were normalized to the corresponding averaging time used by CAAQS methodology. An offset group of receptors were used consisting of concentric points outwards at 25, 50, 100, 200 and 500 meters were used however for purposes of graphing a 50 meter spaced discreet receptor grid was included. Finally, Tier 4 equipment was assumed as this equipment would be implemented as a design feature to this project.

Based upon the CalEEMod air quality modeling as shown in CalEEMod annual outputs, worst-case NO_x and PM_{10} would cumulatively produce 0.5381 and 0.2313 tons respectively over the construction duration of 503-days. The average rate over the project area is 0.0112 and 0.0048 grams per second or 6.08 $x10^{-8}$ $g/m^2/s$ and 2.61 $x10^{-8}$ $g/m^2/s$ for each pollutant during the construction day and was modeled as such within AERMOD ***(Attachments D and – E)***. Furthermore, emission output plots are shown in Figures 4-B and –C starting on the following page.

Based on these calculations, it was found that the project would not contribute emissions in significant quantities to exceed the LST and would not require any additional mitigation measures to comply. Table 4.2 shows the unmitigated results from AERMOD.

Table 4.2: AERMOD Modeling Results during construction (Unmitigated)

Pollutant	Averaging Time	Threshold	Background Ambient Air Quality Data		LST (µg/m3)	Project Contribution (µg/m3)					Sig.?
			Data	(µg/m3)		25 (m)	50 (m)	100 (m)	200 (m)	500 (m)	
NOx	1 Hour	0.18 ppm (339 µg/m^3)	0.051 ppm	96.9	245.1	20.7	20.7	18.7	16	12.7	No
PM_{10}	24 Hour	10.4 µg/m3	134.1 µg/m^3	134.1	10.4	2.1	2.0	1.6	1.2	0.67	No

Figure 4-B: NOx – 1HR Maximum Construction AERMOD Plot

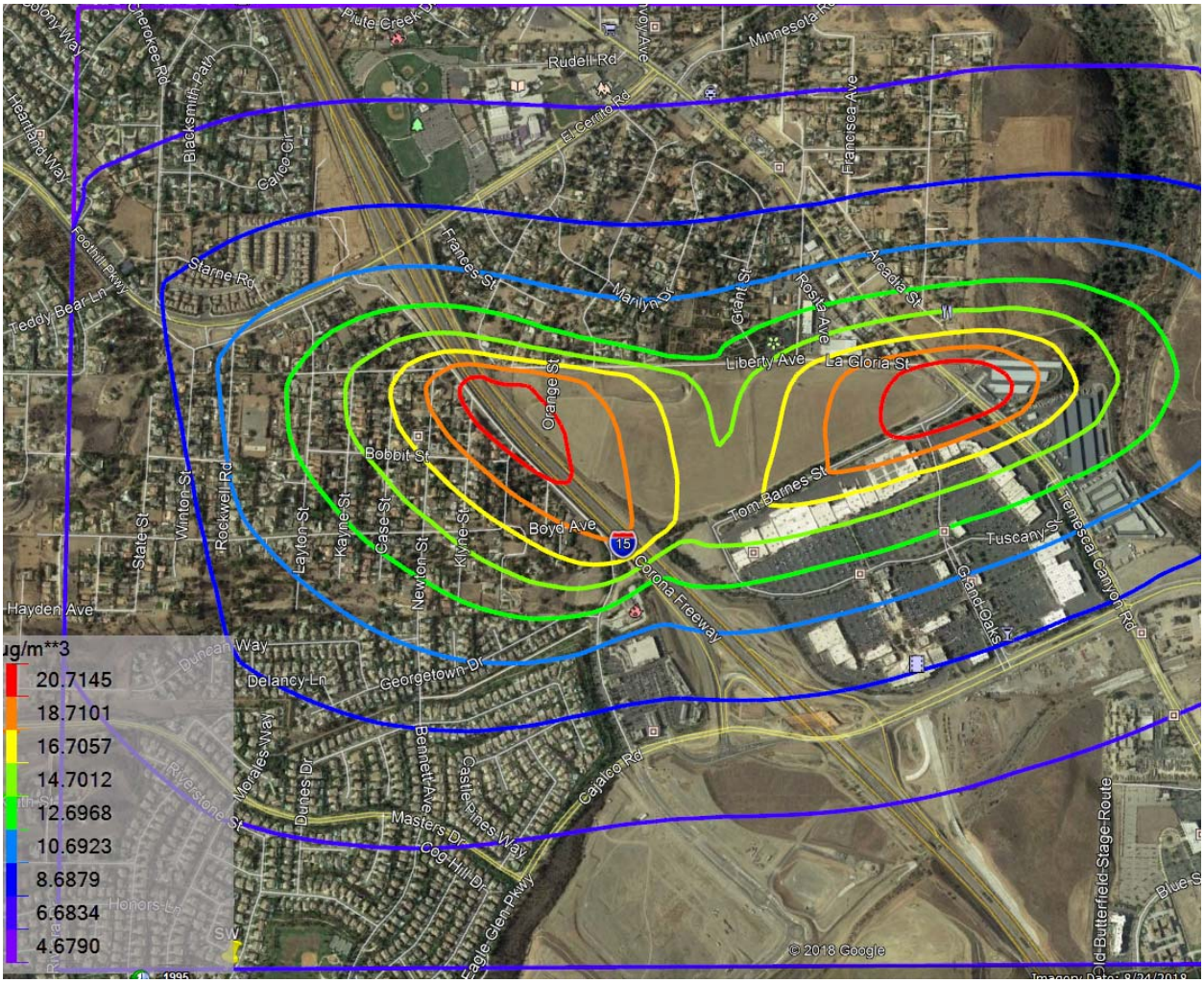


Figure 4-C: PM_{10} – 24HR Maximum Construction AERMOD Plot

The proposed Project has been designed in accordance with the existing site zoning designation and is consistent with the City's General Plan. Since no direct operation on construction impacts are expected, the proposed project would be consistent with the SIP and local AQMP. Given this, less than significant cumulative operational impacts would be expected.

4.4 Operational Findings

Once construction is completed the proposed project would generate air quality emissions from daily operations which would include sources such as Area, Energy, Mobile, Solid Waste and Water uses, which are calculated within CalEEMod. Area sources are from consumer products, landscaping and architectural coatings which can be attributed to regular maintenance. Energy sources would be from uses such as electricity and natural gas.

Finally, the project would also generate air quality emissions through the use of carbon fuel burning vehicles for transportation. Mobile trips were updated within CalEEMod to reflect the total vehicular miles traveled as discussed in Section 3.4 of this report. Operational emissions are shown in Table 4.3. Based on these emissions, no impacts would be expected.

Table 4.3: Expected Daily Pollutant Generation

	ROG	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
Summer Scenario						
Area Source Emission Estimates (Lb/Day)	24.13	0.00	0.12	0.00	0.00	0.00
Energy Source Emissions (Lb/Day)	0.09	0.83	0.69	0.00	0.06	0.06
Operational Vehicle Emissions (Lb/Day)	7.09	35.02	95.55	0.36	30.21	8.26
Total with Design Features (Lb/Day)	**31.31**	**35.85**	**96.36**	**0.36**	**30.27**	**8.32**
SCAQMD Thresholds	**55**	**55**	**550**	**150**	**150**	**55**
Significant?	**No**	**No**	**No**	**No**	**No**	**No**
Winter Scenario						
Area Source Emission Estimates (Lb/Day)	24.13	0.00	0.12	0.00	0.00	0.00
Energy Source Emissions (Lb/Day)	0.09	0.83	0.69	0.00	0.06	0.06
Operational Vehicle Emissions (Lb/Day)	6.80	35.79	89.69	0.34	30.21	8.27
Total with Design Features (Lb/Day)	**31.02**	**36.61**	**90.50**	**0.35**	**30.27**	**8.33**
Significant?	**No**	**No**	**No**	**No**	**No**	**No**
Daily pollutant generation assumes trip distances within CALLEEMOD 2016.3.2						

4.5 Odor Impact Findings

Odor impacts from construction operations would be considered short term events and would not be considered an impact. Long term operations will not create offensive odors and would not create any operational odor impacts.

4.6 Conclusion of Findings

During construction of the proposed Project, fugitive dust emissions would be expected but would not exceed thresholds established by the SCAQMD. Given this, no construction emissions will require mitigation. Furthermore, the project would not generate localized significance threshold impacts. It should be noted however, as a design feature, the project will utilize Tier 4 construction equipment. Since all emission calculations are based upon this assumption within this analysis, using Tier 4 equipment will be a condition to approval of this project.

Operationally, this project was found to generate less than significant air quality emissions. Based on this, operational air quality impacts would not be expected.

Finally, the proposed Project would not be expected to generate offensive odors and would therefore not impact any sensitive receptors.

To reiterate requirements within this analysis, the following measures are required and though they are design features are assumed within air quality modeling calculations. Given this, the following measures will be conditions to the project.

- The project will only utilize Tier 4 diesel construction equipment.

5.0 REFERENCES

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ATTACHMENT A

CALLEEMOD 2016.3.2

Latitude Business Park

South Coast Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	148.00	1000sqft	15.19	148,000.00	0
Industrial Park	456.63	1000sqft	15.19	456,629.00	0
Unrefrigerated Warehouse-No Rail	519.66	1000sqft	15.19	519,665.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	536.32	**CH4 Intensity (lb/MWhr)**	0.022	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - RPS 2022 included

Land Use - site ac

Construction Phase - CS

Vehicle Trips - Per TS

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Tier 3

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
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tblAreaCoating	Area_Nonresidential_Interior	1686441	1099287
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
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2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	27.0654	50.2582	36.8347	0.1030	18.2675	2.1990	20.4664	9.9840	2.0230	12.0071	0.0000	10,340.2012	10,340.2012	1.9490	0.0000	10,364.6047
2021	26.6512	31.4610	35.0755	0.1014	4.9036	1.1068	6.0104	1.3179	1.0460	2.3639	0.0000	10,179.2606	10,179.2606	0.9466	0.0000	10,202.9261
Maximum	**27.0654**	**50.2582**	**36.8347**	**0.1030**	**18.2675**	**2.1990**	**20.4664**	**9.9840**	**2.0230**	**12.0071**	**0.0000**	**10,340.2012**	**10,340.2012**	**1.9490**	**0.0000**	**10,364.6047**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	25.0609	16.1241	37.4474	0.1030	18.2675	0.1389	18.3311	9.9840	0.1337	10.0475	0.0000	10,340.2012	10,340.2012	1.9490	0.0000	10,364.6047
2021	24.8889	14.8655	35.9754	0.1014	4.9036	0.0988	5.0024	1.3179	0.0954	1.4132	0.0000	10,179.2606	10,179.2606	0.9466	0.0000	10,202.9261
Maximum	**25.0609**	**16.1241**	**37.4474**	**0.1030**	**18.2675**	**0.1389**	**18.3311**	**9.9840**	**0.1337**	**10.0475**	**0.0000**	**10,340.2012**	**10,340.2012**	**1.9490**	**0.0000**	**10,364.6047**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**7.01**	**62.08**	**-2.10**	**0.00**	**0.00**	**92.81**	**11.87**	**0.00**	**92.54**	**20.25**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	24.1330	1.0500e-003	0.1150	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2461	0.2461	6.5000e-004		0.2623
Energy	0.0908	0.8250	0.6930	4.9500e-003		0.0627	0.0627		0.0627	0.0627		990.0347	990.0347	0.0190	0.0182	995.9180
Mobile	7.0852	35.0223	95.5486	0.3598	29.9298	0.2760	30.2058	8.0071	0.2574	8.2646		36,617.6180	36,617.6180	1.6847		36,659.7347
Total	**31.3089**	**35.8484**	**96.3566**	**0.3648**	**29.9298**	**0.3391**	**30.2689**	**8.0071**	**0.3206**	**8.3277**		**37,607.8988**	**37,607.8988**	**1.7043**	**0.0182**	**37,655.9149**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	24.1330	1.0500e-003	0.1150	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2461	0.2461	6.5000e-004		0.2623
Energy	0.0908	0.8250	0.6930	4.9500e-003		0.0627	0.0627		0.0627	0.0627		990.0347	990.0347	0.0190	0.0182	995.9180
Mobile	7.0852	35.0223	95.5486	0.3598	29.9298	0.2760	30.2058	8.0071	0.2574	8.2646		36,617.6180	36,617.6180	1.6847		36,659.7347
Total	**31.3089**	**35.8484**	**96.3566**	**0.3648**	**29.9298**	**0.3391**	**30.2689**	**8.0071**	**0.3206**	**8.3277**		**37,607.8988**	**37,607.8988**	**1.7043**	**0.0182**	**37,655.9149**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	1/14/2020	5	10	
2	Grading	Grading	1/15/2020	2/25/2020	5	30	
3	Paving	Paving	2/26/2020	3/24/2020	5	20	
4	Building Construction	Building Construction	3/25/2020	10/5/2021	5	400	
5	Architectural Coating	Architectural Coating	8/12/2020	10/5/2021	5	300	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,099,287; Non-Residential Outdoor: 366,429; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Latitude Business Park - South Coast Air Basin, Summer

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	308.00	120.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	62.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

3.2 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	**4.0765**	**42.4173**	**21.5136**	**0.0380**	**18.0663**	**2.1974**	**20.2637**	**9.9307**	**2.0216**	**11.9523**		**3,685.1016**	**3,685.1016**	**1.1918**		**3,714.8975**

3.2 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0807	0.0546	0.7336	2.0700e-003	0.2012	1.5300e-003	0.2027	0.0534	1.4100e-003	0.0548		205.8905	205.8905	5.9300e-003		206.0389
Total	**0.0807**	**0.0546**	**0.7336**	**2.0700e-003**	**0.2012**	**1.5300e-003**	**0.2027**	**0.0534**	**1.4100e-003**	**0.0548**		**205.8905**	**205.8905**	**5.9300e-003**		**206.0389**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0380		0.0621	0.0621		0.0621	0.0621	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	**0.4656**	**2.0175**	**20.8690**	**0.0380**	**18.0663**	**0.0621**	**18.1283**	**9.9307**	**0.0621**	**9.9928**	**0.0000**	**3,685.1016**	**3,685.1016**	**1.1918**		**3,714.8975**

3.2 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0807	0.0546	0.7336	2.0700e-003	0.2012	1.5300e-003	0.2027	0.0534	1.4100e-003	0.0548		205.8905	205.8905	5.9300e-003		206.0389
Total	**0.0807**	**0.0546**	**0.7336**	**2.0700e-003**	**0.2012**	**1.5300e-003**	**0.2027**	**0.0534**	**1.4100e-003**	**0.0548**		**205.8905**	**205.8905**	**5.9300e-003**		**206.0389**

3.3 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
Total	**4.4501**	**50.1975**	**31.9583**	**0.0620**	**8.6733**	**2.1739**	**10.8472**	**3.5965**	**2.0000**	**5.5965**		**6,005.8653**	**6,005.8653**	**1.9424**		**6,054.4257**

3.3 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0897	0.0607	0.8152	2.3000e-003	0.2236	1.7100e-003	0.2253	0.0593	1.5700e-003	0.0609		228.7673	228.7673	6.5900e-003		228.9321
Total	**0.0897**	**0.0607**	**0.8152**	**2.3000e-003**	**0.2236**	**1.7100e-003**	**0.2253**	**0.0593**	**1.5700e-003**	**0.0609**		**228.7673**	**228.7673**	**6.5900e-003**		**228.9321**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0620		0.1015	0.1015		0.1015	0.1015	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
Total	**0.7616**	**3.3000**	**32.9991**	**0.0620**	**8.6733**	**0.1015**	**8.7749**	**3.5965**	**0.1015**	**3.6980**	**0.0000**	**6,005.8653**	**6,005.8653**	**1.9424**		**6,054.4257**

3.3 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0897	0.0607	0.8152	2.3000e-003	0.2236	1.7100e-003	0.2253	0.0593	1.5700e-003	0.0609		228.7673	228.7673	6.5900e-003		228.9321
Total	**0.0897**	**0.0607**	**0.8152**	**2.3000e-003**	**0.2236**	**1.7100e-003**	**0.2253**	**0.0593**	**1.5700e-003**	**0.0609**		**228.7673**	**228.7673**	**6.5900e-003**		**228.9321**

3.4 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.3566**	**14.0656**	**14.6521**	**0.0228**		**0.7528**	**0.7528**		**0.6926**	**0.6926**		**2,207.7334**	**2,207.7334**	**0.7140**		**2,225.5841**

3.4 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0673	0.0455	0.6114	1.7200e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1800e-003	0.0456		171.5755	171.5755	4.9400e-003		171.6991
Total	**0.0673**	**0.0455**	**0.6114**	**1.7200e-003**	**0.1677**	**1.2800e-003**	**0.1689**	**0.0445**	**1.1800e-003**	**0.0456**		**171.5755**	**171.5755**	**4.9400e-003**		**171.6991**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.2805**	**1.2154**	**17.2957**	**0.0228**		**0.0374**	**0.0374**		**0.0374**	**0.0374**	**0.0000**	**2,207.7334**	**2,207.7334**	**0.7140**		**2,225.5841**

3.4 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0673	0.0455	0.6114	1.7200e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1800e-003	0.0456		171.5755	171.5755	4.9400e-003		171.6991
Total	**0.0673**	**0.0455**	**0.6114**	**1.7200e-003**	**0.1677**	**1.2800e-003**	**0.1689**	**0.0445**	**1.1800e-003**	**0.0456**		**171.5755**	**171.5755**	**4.9400e-003**		**171.6991**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	**2.1198**	**19.1860**	**16.8485**	**0.0269**		**1.1171**	**1.1171**		**1.0503**	**1.0503**		**2,553.0631**	**2,553.0631**	**0.6229**		**2,568.6345**

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3984	12.6387	3.0743	0.0306	0.7679	0.0626	0.8304	0.2211	0.0599	0.2809		3,273.4957	3,273.4957	0.2095		3,278.7338
Worker	1.3815	0.9339	12.5534	0.0354	3.4427	0.0263	3.4690	0.9130	0.0242	0.9372		3,523.0159	3,523.0159	0.1015		3,525.5541
Total	**1.7799**	**13.5726**	**15.6278**	**0.0660**	**4.2106**	**0.0888**	**4.2994**	**1.1341**	**0.0840**	**1.2181**		**6,796.5116**	**6,796.5116**	**0.3111**		**6,804.2879**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0269		0.0408	0.0408		0.0408	0.0408	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	**0.3278**	**2.2347**	**17.4603**	**0.0269**		**0.0408**	**0.0408**		**0.0408**	**0.0408**	**0.0000**	**2,553.0631**	**2,553.0631**	**0.6229**		**2,568.6345**

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3984	12.6387	3.0743	0.0306	0.7679	0.0626	0.8304	0.2211	0.0599	0.2809		3,273.4957	3,273.4957	0.2095		3,278.7338
Worker	1.3815	0.9339	12.5534	0.0354	3.4427	0.0263	3.4690	0.9130	0.0242	0.9372		3,523.0159	3,523.0159	0.1015		3,525.5541
Total	**1.7799**	**13.5726**	**15.6278**	**0.0660**	**4.2106**	**0.0888**	**4.2994**	**1.1341**	**0.0840**	**1.2181**		**6,796.5116**	**6,796.5116**	**0.3111**		**6,804.2879**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**		**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3376	11.4921	2.7904	0.0304	0.7679	0.0235	0.7913	0.2211	0.0224	0.2435		3,248.9250	3,248.9250	0.2009		3,253.9476
Worker	1.2890	0.8408	11.5644	0.0342	3.4427	0.0255	3.4682	0.9130	0.0235	0.9365		3,409.2467	3,409.2467	0.0919		3,411.5439
Total	**1.6266**	**12.3328**	**14.3549**	**0.0646**	**4.2106**	**0.0489**	**4.2595**	**1.1341**	**0.0459**	**1.1800**		**6,658.1717**	**6,658.1717**	**0.2928**		**6,665.4915**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0269		0.0408	0.0408		0.0408	0.0408	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**0.3278**	**2.2347**	**17.4603**	**0.0269**		**0.0408**	**0.0408**		**0.0408**	**0.0408**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3376	11.4921	2.7904	0.0304	0.7679	0.0235	0.7913	0.2211	0.0224	0.2435		3,248.9250	3,248.9250	0.2009		3,253.9476
Worker	1.2890	0.8408	11.5644	0.0342	3.4427	0.0255	3.4682	0.9130	0.0235	0.9365		3,409.2467	3,409.2467	0.0919		3,411.5439
Total	**1.6266**	**12.3328**	**14.3549**	**0.0646**	**4.2106**	**0.0489**	**4.2595**	**1.1341**	**0.0459**	**1.1800**		**6,658.1717**	**6,658.1717**	**0.2928**		**6,665.4915**

3.6 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	22.6453					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	**22.8875**	**1.6838**	**1.8314**	**2.9700e-003**		**0.1109**	**0.1109**		**0.1109**	**0.1109**		**281.4481**	**281.4481**	**0.0218**		**281.9928**

3.6 Architectural Coating - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2781	0.1880	2.5270	7.1200e-003	0.6930	5.2900e-003	0.6983	0.1838	4.8700e-003	0.1887		709.1785	709.1785	0.0204		709.6895
Total	**0.2781**	**0.1880**	**2.5270**	**7.1200e-003**	**0.6930**	**5.2900e-003**	**0.6983**	**0.1838**	**4.8700e-003**	**0.1887**		**709.1785**	**709.1785**	**0.0204**		**709.6895**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	22.6453					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0218		281.9928
Total	**22.6750**	**0.1288**	**1.8324**	**2.9700e-003**		**3.9600e-003**	**3.9600e-003**		**3.9600e-003**	**3.9600e-003**	**0.0000**	**281.4481**	**281.4481**	**0.0218**		**281.9928**

3.6 Architectural Coating - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2781	0.1880	2.5270	7.1200e-003	0.6930	5.2900e-003	0.6983	0.1838	4.8700e-003	0.1887		709.1785	709.1785	0.0204		709.6895
Total	**0.2781**	**0.1880**	**2.5270**	**7.1200e-003**	**0.6930**	**5.2900e-003**	**0.6983**	**0.1838**	**4.8700e-003**	**0.1887**		**709.1785**	**709.1785**	**0.0204**		**709.6895**

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	22.6453					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**22.8642**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.6 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2595	0.1692	2.3279	6.8900e-003	0.6930	5.1300e-003	0.6981	0.1838	4.7200e-003	0.1885		686.2769	686.2769	0.0185		686.7394
Total	**0.2595**	**0.1692**	**2.3279**	**6.8900e-003**	**0.6930**	**5.1300e-003**	**0.6981**	**0.1838**	**4.7200e-003**	**0.1885**		**686.2769**	**686.2769**	**0.0185**		**686.7394**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	22.6453					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**22.6750**	**0.1288**	**1.8324**	**2.9700e-003**		**3.9600e-003**	**3.9600e-003**		**3.9600e-003**	**3.9600e-003**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.6 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2595	0.1692	2.3279	6.8900e-003	0.6930	5.1300e-003	0.6981	0.1838	4.7200e-003	0.1885		686.2769	686.2769	0.0185		686.7394
Total	**0.2595**	**0.1692**	**2.3279**	**6.8900e-003**	**0.6930**	**5.1300e-003**	**0.6981**	**0.1838**	**4.7200e-003**	**0.1885**		**686.2769**	**686.2769**	**0.0185**		**686.7394**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.0852	35.0223	95.5486	0.3598	29.9298	0.2760	30.2058	8.0071	0.2574	8.2646		36,617.6180	36,617.6180	1.6847		36,659.7347
Unmitigated	7.0852	35.0223	95.5486	0.3598	29.9298	0.2760	30.2058	8.0071	0.2574	8.2646		36,617.6180	36,617.6180	1.6847		36,659.7347

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	1,538.84	1,538.84	1538.84	5,248,501	5,248,501
Office Park	1,441.52	1,441.52	1441.52	4,916,563	4,916,563
Unrefrigerated Warehouse-No Rail	1,148.45	1,148.45	1148.45	3,916,991	3,916,991
Total	4,128.81	4,128.81	4,128.81	14,082,055	14,082,055

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Industrial Park	9.37	0.00	0.00	100.00	0.00	0.00	100	0	0
Office Park	9.37	0.00	0.00	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-No	9.37	0.00	0.00	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Office Park	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896
Industrial Park	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896
Unrefrigerated Warehouse-No Rail	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0908	0.8250	0.6930	4.9500e-003		0.0627	0.0627		0.0627	0.0627		990.0347	990.0347	0.0190	0.0182	995.9180
NaturalGas Unmitigated	0.0908	0.8250	0.6930	4.9500e-003		0.0627	0.0627		0.0627	0.0627		990.0347	990.0347	0.0190	0.0182	995.9180

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Industrial Park	4341.1	0.0468	0.4256	0.3575	2.5500e-003		0.0324	0.0324		0.0324	0.0324		510.7180	510.7180	9.7900e-003	9.3600e-003	513.7530
Office Park	1184	0.0128	0.1161	0.0975	7.0000e-004		8.8200e-003	8.8200e-003		8.8200e-003	8.8200e-003		139.2941	139.2941	2.6700e-003	2.5500e-003	140.1219
Unrefrigerated Warehouse-No Rail	2890.19	0.0312	0.2834	0.2380	1.7000e-003		0.0215	0.0215		0.0215	0.0215		340.0226	340.0226	6.5200e-003	6.2300e-003	342.0431
Total		**0.0908**	**0.8250**	**0.6930**	**4.9500e-003**		**0.0627**	**0.0627**		**0.0627**	**0.0627**		**990.0347**	**990.0347**	**0.0190**	**0.0181**	**995.9180**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Industrial Park	4.3411	0.0468	0.4256	0.3575	2.5500e-003		0.0324	0.0324		0.0324	0.0324		510.7180	510.7180	9.7900e-003	9.3600e-003	513.7530
Office Park	1.184	0.0128	0.1161	0.0975	7.0000e-004		8.8200e-003	8.8200e-003		8.8200e-003	8.8200e-003		139.2941	139.2941	2.6700e-003	2.5500e-003	140.1219
Unrefrigerated Warehouse-No Rail	2.89019	0.0312	0.2834	0.2380	1.7000e-003		0.0215	0.0215		0.0215	0.0215		340.0226	340.0226	6.5200e-003	6.2300e-003	342.0431
Total		**0.0908**	**0.8250**	**0.6930**	**4.9500e-003**		**0.0627**	**0.0627**		**0.0627**	**0.0627**		**990.0347**	**990.0347**	**0.0190**	**0.0181**	**995.9180**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	24.1330	1.0500e-003	0.1150	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2461	0.2461	6.5000e-004		0.2623
Unmitigated	24.1330	1.0500e-003	0.1150	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2461	0.2461	6.5000e-004		0.2623

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.8613					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	22.2610					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0107	1.0500e-003	0.1150	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2461	0.2461	6.5000e-004		0.2623
Total	**24.1330**	**1.0500e-003**	**0.1150**	**1.0000e-005**		**4.1000e-004**	**4.1000e-004**		**4.1000e-004**	**4.1000e-004**		**0.2461**	**0.2461**	**6.5000e-004**		**0.2623**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.8613					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	22.2610					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0107	1.0500e-003	0.1150	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2461	0.2461	6.5000e-004		0.2623
Total	**24.1330**	**1.0500e-003**	**0.1150**	**1.0000e-005**		**4.1000e-004**	**4.1000e-004**		**4.1000e-004**	**4.1000e-004**		**0.2461**	**0.2461**	**6.5000e-004**		**0.2623**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Latitude Business Park

South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	148.00	1000sqft	15.19	148,000.00	0
Industrial Park	456.63	1000sqft	15.19	456,629.00	0
Unrefrigerated Warehouse-No Rail	519.66	1000sqft	15.19	519,665.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	536.32	**CH4 Intensity (lb/MWhr)**	0.022	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - RPS 2022 included

Land Use - site ac

Construction Phase - CS

Vehicle Trips - Per TS

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Tier 3

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	562,147.00	366,429.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,686,441.00	1,099,287.00
tblAreaCoating	Area_Nonresidential_Exterior	562147	366429
tblAreaCoating	Area_Nonresidential_Interior	1686441	1099287
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	30.00	10.00
tblConstructionPhase	NumDays	75.00	30.00
tblConstructionPhase	NumDays	55.00	20.00
tblConstructionPhase	NumDays	740.00	400.00
tblConstructionPhase	NumDays	55.00	300.00
tblLandUse	LandUseSquareFeet	456,630.00	456,629.00
tblLandUse	LandUseSquareFeet	519,660.00	519,665.00
tblLandUse	LotAcreage	3.40	15.19
tblLandUse	LotAcreage	10.48	15.19
tblLandUse	LotAcreage	11.93	15.19

tblProjectCharacteristics	CH4IntensityFactor	0.029	0.022
tblProjectCharacteristics	CO2IntensityFactor	702.44	536.32
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblTripsAndVMT	VendorTripNumber	184.00	120.00
tblTripsAndVMT	WorkerTripNumber	457.00	308.00
tblTripsAndVMT	WorkerTripNumber	91.00	62.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	9.37
tblVehicleTrips	CW_TL	16.60	9.37
tblVehicleTrips	CW_TL	16.60	9.37
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	33.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	15.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00

tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	79.00	100.00
tblVehicleTrips	PR_TP	82.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	2.49	3.37
tblVehicleTrips	ST_TR	1.64	9.74
tblVehicleTrips	ST_TR	1.68	2.21
tblVehicleTrips	SU_TR	0.73	3.37
tblVehicleTrips	SU_TR	0.76	9.74
tblVehicleTrips	SU_TR	1.68	2.21
tblVehicleTrips	WD_TR	6.83	3.37
tblVehicleTrips	WD_TR	11.42	9.74
tblVehicleTrips	WD_TR	1.68	2.21

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	27.2496	50.2641	35.7610	0.0995	18.2675	2.1990	20.4664	9.9840	2.0230	12.0071	0.0000	9,988.5896	9,988.5896	1.9486	0.0000	10,013.1605
2021	26.8262	31.5331	34.0697	0.0980	4.9036	1.1075	6.0111	1.3179	1.0467	2.3646	0.0000	9,836.4566	9,836.4566	0.9533	0.0000	9,860.2903
Maximum	**27.2496**	**50.2641**	**35.7610**	**0.0995**	**18.2675**	**2.1990**	**20.4664**	**9.9840**	**2.0230**	**12.0071**	**0.0000**	**9,988.5896**	**9,988.5896**	**1.9486**	**0.0000**	**10,013.1605**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	25.2451	16.2298	36.3738	0.0995	18.2675	0.1398	18.3311	9.9840	0.1346	10.0475	0.0000	9,988.5896	9,988.5896	1.9486	0.0000	10,013.1605
2021	25.0639	14.9377	34.9696	0.0980	4.9036	0.0996	5.0031	1.3179	0.0961	1.4139	0.0000	9,836.4566	9,836.4566	0.9533	0.0000	9,860.2903
Maximum	**25.2451**	**16.2298**	**36.3738**	**0.0995**	**18.2675**	**0.1398**	**18.3311**	**9.9840**	**0.1346**	**10.0475**	**0.0000**	**9,988.5896**	**9,988.5896**	**1.9486**	**0.0000**	**10,013.1605**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**6.97**	**61.90**	**-2.17**	**0.00**	**0.00**	**92.76**	**11.87**	**0.00**	**92.49**	**20.25**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	24.1330	1.0500e-003	0.1150	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2461	0.2461	6.5000e-004		0.2623
Energy	0.0908	0.8250	0.6930	4.9500e-003		0.0627	0.0627		0.0627	0.0627		990.0347	990.0347	0.0190	0.0182	995.9180
Mobile	6.8010	35.7878	89.6922	0.3413	29.9298	0.2774	30.2072	8.0071	0.2588	8.2659		34,759.3430	34,759.3430	1.6811		34,801.3714
Total	**31.0248**	**36.6139**	**90.5001**	**0.3463**	**29.9298**	**0.3405**	**30.2703**	**8.0071**	**0.3219**	**8.3290**		**35,749.6238**	**35,749.6238**	**1.7008**	**0.0182**	**35,797.5516**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	24.1330	1.0500e-003	0.1150	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2461	0.2461	6.5000e-004		0.2623
Energy	0.0908	0.8250	0.6930	4.9500e-003		0.0627	0.0627		0.0627	0.0627		990.0347	990.0347	0.0190	0.0182	995.9180
Mobile	6.8010	35.7878	89.6922	0.3413	29.9298	0.2774	30.2072	8.0071	0.2588	8.2659		34,759.3430	34,759.3430	1.6811		34,801.3714
Total	**31.0248**	**36.6139**	**90.5001**	**0.3463**	**29.9298**	**0.3405**	**30.2703**	**8.0071**	**0.3219**	**8.3290**		**35,749.6238**	**35,749.6238**	**1.7008**	**0.0182**	**35,797.5516**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	1/14/2020	5	10	
2	Grading	Grading	1/15/2020	2/25/2020	5	30	
3	Paving	Paving	2/26/2020	3/24/2020	5	20	
4	Building Construction	Building Construction	3/25/2020	10/5/2021	5	400	
5	Architectural Coating	Architectural Coating	8/12/2020	10/5/2021	5	300	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,099,287; Non-Residential Outdoor: 366,429; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	308.00	120.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	62.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

3.2 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	**4.0765**	**42.4173**	**21.5136**	**0.0380**	**18.0663**	**2.1974**	**20.2637**	**9.9307**	**2.0216**	**11.9523**		**3,685.1016**	**3,685.1016**	**1.1918**		**3,714.8975**

3.2 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0888	0.0600	0.6653	1.9400e-003	0.2012	1.5300e-003	0.2027	0.0534	1.4100e-003	0.0548		193.1132	193.1132	5.5600e-003		193.2522
Total	**0.0888**	**0.0600**	**0.6653**	**1.9400e-003**	**0.2012**	**1.5300e-003**	**0.2027**	**0.0534**	**1.4100e-003**	**0.0548**		**193.1132**	**193.1132**	**5.5600e-003**		**193.2522**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0380		0.0621	0.0621		0.0621	0.0621	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	**0.4656**	**2.0175**	**20.8690**	**0.0380**	**18.0663**	**0.0621**	**18.1283**	**9.9307**	**0.0621**	**9.9928**	**0.0000**	**3,685.1016**	**3,685.1016**	**1.1918**		**3,714.8975**

3.2 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0888	0.0600	0.6653	1.9400e-003	0.2012	1.5300e-003	0.2027	0.0534	1.4100e-003	0.0548		193.1132	193.1132	5.5600e-003		193.2522
Total	**0.0888**	**0.0600**	**0.6653**	**1.9400e-003**	**0.2012**	**1.5300e-003**	**0.2027**	**0.0534**	**1.4100e-003**	**0.0548**		**193.1132**	**193.1132**	**5.5600e-003**		**193.2522**

3.3 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
Total	**4.4501**	**50.1975**	**31.9583**	**0.0620**	**8.6733**	**2.1739**	**10.8472**	**3.5965**	**2.0000**	**5.5965**		**6,005.8653**	**6,005.8653**	**1.9424**		**6,054.4257**

3.3 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0987	0.0666	0.7392	2.1500e-003	0.2236	1.7100e-003	0.2253	0.0593	1.5700e-003	0.0609		214.5703	214.5703	6.1800e-003		214.7247
Total	**0.0987**	**0.0666**	**0.7392**	**2.1500e-003**	**0.2236**	**1.7100e-003**	**0.2253**	**0.0593**	**1.5700e-003**	**0.0609**		**214.5703**	**214.5703**	**6.1800e-003**		**214.7247**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0620		0.1015	0.1015		0.1015	0.1015	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
Total	**0.7616**	**3.3000**	**32.9991**	**0.0620**	**8.6733**	**0.1015**	**8.7749**	**3.5965**	**0.1015**	**3.6980**	**0.0000**	**6,005.8653**	**6,005.8653**	**1.9424**		**6,054.4257**

3.3 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0987	0.0666	0.7392	2.1500e-003	0.2236	1.7100e-003	0.2253	0.0593	1.5700e-003	0.0609		214.5703	214.5703	6.1800e-003		214.7247
Total	**0.0987**	**0.0666**	**0.7392**	**2.1500e-003**	**0.2236**	**1.7100e-003**	**0.2253**	**0.0593**	**1.5700e-003**	**0.0609**		**214.5703**	**214.5703**	**6.1800e-003**		**214.7247**

3.4 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.3566**	**14.0656**	**14.6521**	**0.0228**		**0.7528**	**0.7528**		**0.6926**	**0.6926**		**2,207.7334**	**2,207.7334**	**0.7140**		**2,225.5841**

3.4 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0740	0.0500	0.5544	1.6200e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1800e-003	0.0456		160.9277	160.9277	4.6300e-003		161.0435
Total	**0.0740**	**0.0500**	**0.5544**	**1.6200e-003**	**0.1677**	**1.2800e-003**	**0.1689**	**0.0445**	**1.1800e-003**	**0.0456**		**160.9277**	**160.9277**	**4.6300e-003**		**161.0435**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.2805**	**1.2154**	**17.2957**	**0.0228**		**0.0374**	**0.0374**		**0.0374**	**0.0374**	**0.0000**	**2,207.7334**	**2,207.7334**	**0.7140**		**2,225.5841**

3.4 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0740	0.0500	0.5544	1.6200e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1800e-003	0.0456		160.9277	160.9277	4.6300e-003		161.0435
Total	**0.0740**	**0.0500**	**0.5544**	**1.6200e-003**	**0.1677**	**1.2800e-003**	**0.1689**	**0.0445**	**1.1800e-003**	**0.0456**		**160.9277**	**160.9277**	**4.6300e-003**		**161.0435**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	**2.1198**	**19.1860**	**16.8485**	**0.0269**		**1.1171**	**1.1171**		**1.0503**	**1.0503**		**2,553.0631**	**2,553.0631**	**0.6229**		**2,568.6345**

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4166	12.6339	3.4066	0.0298	0.7679	0.0635	0.8314	0.2211	0.0608	0.2818		3,184.5287	3,184.5287	0.2239		3,190.1270
Worker	1.5198	1.0259	11.3831	0.0332	3.4427	0.0263	3.4690	0.9130	0.0242	0.9372		3,304.3820	3,304.3820	0.0951		3,306.7598
Total	**1.9364**	**13.6598**	**14.7897**	**0.0630**	**4.2106**	**0.0898**	**4.3003**	**1.1341**	**0.0849**	**1.2190**		**6,488.9107**	**6,488.9107**	**0.3190**		**6,496.8867**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0269		0.0408	0.0408		0.0408	0.0408	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	**0.3278**	**2.2347**	**17.4603**	**0.0269**		**0.0408**	**0.0408**		**0.0408**	**0.0408**	**0.0000**	**2,553.0631**	**2,553.0631**	**0.6229**		**2,568.6345**

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4166	12.6339	3.4066	0.0298	0.7679	0.0635	0.8314	0.2211	0.0608	0.2818		3,184.5287	3,184.5287	0.2239		3,190.1270
Worker	1.5198	1.0259	11.3831	0.0332	3.4427	0.0263	3.4690	0.9130	0.0242	0.9372		3,304.3820	3,304.3820	0.0951		3,306.7598
Total	**1.9364**	**13.6598**	**14.7897**	**0.0630**	**4.2106**	**0.0898**	**4.3003**	**1.1341**	**0.0849**	**1.2190**		**6,488.9107**	**6,488.9107**	**0.3190**		**6,496.8867**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**		**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3547	11.4650	3.1018	0.0295	0.7679	0.0242	0.7921	0.2211	0.0232	0.2442		3,160.4854	3,160.4854	0.2147		3,165.8531
Worker	1.4204	0.9233	10.4679	0.0321	3.4427	0.0255	3.4682	0.9130	0.0235	0.9365		3,197.5056	3,197.5056	0.0860		3,199.6555
Total	**1.7751**	**12.3883**	**13.5697**	**0.0616**	**4.2106**	**0.0497**	**4.2602**	**1.1341**	**0.0466**	**1.1807**		**6,357.9909**	**6,357.9909**	**0.3007**		**6,365.5086**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0269		0.0408	0.0408		0.0408	0.0408	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**0.3278**	**2.2347**	**17.4603**	**0.0269**		**0.0408**	**0.0408**		**0.0408**	**0.0408**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3547	11.4650	3.1018	0.0295	0.7679	0.0242	0.7921	0.2211	0.0232	0.2442		3,160.4854	3,160.4854	0.2147		3,165.8531
Worker	1.4204	0.9233	10.4679	0.0321	3.4427	0.0255	3.4682	0.9130	0.0235	0.9365		3,197.5056	3,197.5056	0.0860		3,199.6555
Total	**1.7751**	**12.3883**	**13.5697**	**0.0616**	**4.2106**	**0.0497**	**4.2602**	**1.1341**	**0.0466**	**1.1807**		**6,357.9909**	**6,357.9909**	**0.3007**		**6,365.5086**

3.6 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	22.6453					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	**22.8875**	**1.6838**	**1.8314**	**2.9700e-003**		**0.1109**	**0.1109**		**0.1109**	**0.1109**		**281.4481**	**281.4481**	**0.0218**		**281.9928**

3.6 Architectural Coating - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3059	0.2065	2.2914	6.6800e-003	0.6930	5.2900e-003	0.6983	0.1838	4.8700e-003	0.1887		665.1678	665.1678	0.0192		665.6464
Total	**0.3059**	**0.2065**	**2.2914**	**6.6800e-003**	**0.6930**	**5.2900e-003**	**0.6983**	**0.1838**	**4.8700e-003**	**0.1887**		**665.1678**	**665.1678**	**0.0192**		**665.6464**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	22.6453					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0218		281.9928
Total	**22.6750**	**0.1288**	**1.8324**	**2.9700e-003**		**3.9600e-003**	**3.9600e-003**		**3.9600e-003**	**3.9600e-003**	**0.0000**	**281.4481**	**281.4481**	**0.0218**		**281.9928**

3.6 Architectural Coating - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3059	0.2065	2.2914	6.6800e-003	0.6930	5.2900e-003	0.6983	0.1838	4.8700e-003	0.1887		665.1678	665.1678	0.0192		665.6464
Total	**0.3059**	**0.2065**	**2.2914**	**6.6800e-003**	**0.6930**	**5.2900e-003**	**0.6983**	**0.1838**	**4.8700e-003**	**0.1887**		**665.1678**	**665.1678**	**0.0192**		**665.6464**

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	22.6453					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**22.8642**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.6 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2859	0.1859	2.1072	6.4600e-003	0.6930	5.1300e-003	0.6981	0.1838	4.7200e-003	0.1885		643.6537	643.6537	0.0173		644.0865
Total	**0.2859**	**0.1859**	**2.1072**	**6.4600e-003**	**0.6930**	**5.1300e-003**	**0.6981**	**0.1838**	**4.7200e-003**	**0.1885**		**643.6537**	**643.6537**	**0.0173**		**644.0865**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	22.6453					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**22.6750**	**0.1288**	**1.8324**	**2.9700e-003**		**3.9600e-003**	**3.9600e-003**		**3.9600e-003**	**3.9600e-003**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.6 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2859	0.1859	2.1072	6.4600e-003	0.6930	5.1300e-003	0.6981	0.1838	4.7200e-003	0.1885		643.6537	643.6537	0.0173		644.0865
Total	**0.2859**	**0.1859**	**2.1072**	**6.4600e-003**	**0.6930**	**5.1300e-003**	**0.6981**	**0.1838**	**4.7200e-003**	**0.1885**		**643.6537**	**643.6537**	**0.0173**		**644.0865**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.8010	35.7878	89.6922	0.3413	29.9298	0.2774	30.2072	8.0071	0.2588	8.2659		34,759.3430	34,759.3430	1.6811		34,801.3714
Unmitigated	6.8010	35.7878	89.6922	0.3413	29.9298	0.2774	30.2072	8.0071	0.2588	8.2659		34,759.3430	34,759.3430	1.6811		34,801.3714

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	1,538.84	1,538.84	1538.84	5,248,501	5,248,501
Office Park	1,441.52	1,441.52	1441.52	4,916,563	4,916,563
Unrefrigerated Warehouse-No Rail	1,148.45	1,148.45	1148.45	3,916,991	3,916,991
Total	4,128.81	4,128.81	4,128.81	14,082,055	14,082,055

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Industrial Park	9.37	0.00	0.00	100.00	0.00	0.00	100	0	0
Office Park	9.37	0.00	0.00	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-No	9.37	0.00	0.00	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Office Park	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896
Industrial Park	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896
Unrefrigerated Warehouse-No Rail	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0908	0.8250	0.6930	4.9500e-003		0.0627	0.0627		0.0627	0.0627		990.0347	990.0347	0.0190	0.0182	995.9180
NaturalGas Unmitigated	0.0908	0.8250	0.6930	4.9500e-003		0.0627	0.0627		0.0627	0.0627		990.0347	990.0347	0.0190	0.0182	995.9180

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Industrial Park	4341.1	0.0468	0.4256	0.3575	2.5500e-003		0.0324	0.0324		0.0324	0.0324		510.7180	510.7180	9.7900e-003	9.3600e-003	513.7530
Office Park	1184	0.0128	0.1161	0.0975	7.0000e-004		8.8200e-003	8.8200e-003		8.8200e-003	8.8200e-003		139.2941	139.2941	2.6700e-003	2.5500e-003	140.1219
Unrefrigerated Warehouse-No Rail	2890.19	0.0312	0.2834	0.2380	1.7000e-003		0.0215	0.0215		0.0215	0.0215		340.0226	340.0226	6.5200e-003	6.2300e-003	342.0431
Total		**0.0908**	**0.8250**	**0.6930**	**4.9500e-003**		**0.0627**	**0.0627**		**0.0627**	**0.0627**		**990.0347**	**990.0347**	**0.0190**	**0.0181**	**995.9180**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Industrial Park	4.3411	0.0468	0.4256	0.3575	2.5500e-003		0.0324	0.0324		0.0324	0.0324		510.7180	510.7180	9.7900e-003	9.3600e-003	513.7530
Office Park	1.184	0.0128	0.1161	0.0975	7.0000e-004		8.8200e-003	8.8200e-003		8.8200e-003	8.8200e-003		139.2941	139.2941	2.6700e-003	2.5500e-003	140.1219
Unrefrigerated Warehouse-No Rail	2.89019	0.0312	0.2834	0.2380	1.7000e-003		0.0215	0.0215		0.0215	0.0215		340.0226	340.0226	6.5200e-003	6.2300e-003	342.0431
Total		**0.0908**	**0.8250**	**0.6930**	**4.9500e-003**		**0.0627**	**0.0627**		**0.0627**	**0.0627**		**990.0347**	**990.0347**	**0.0190**	**0.0181**	**995.9180**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	24.1330	1.0500e-003	0.1150	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2461	0.2461	6.5000e-004		0.2623
Unmitigated	24.1330	1.0500e-003	0.1150	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2461	0.2461	6.5000e-004		0.2623

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.8613					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	22.2610					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0107	1.0500e-003	0.1150	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2461	0.2461	6.5000e-004		0.2623
Total	**24.1330**	**1.0500e-003**	**0.1150**	**1.0000e-005**		**4.1000e-004**	**4.1000e-004**		**4.1000e-004**	**4.1000e-004**		**0.2461**	**0.2461**	**6.5000e-004**		**0.2623**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.8613					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	22.2610					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0107	1.0500e-003	0.1150	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		0.2461	0.2461	6.5000e-004		0.2623
Total	**24.1330**	**1.0500e-003**	**0.1150**	**1.0000e-005**		**4.1000e-004**	**4.1000e-004**		**4.1000e-004**	**4.1000e-004**		**0.2461**	**0.2461**	**6.5000e-004**		**0.2623**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Latitude Business Park

South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	148.00	1000sqft	15.19	148,000.00	0
Industrial Park	456.63	1000sqft	15.19	456,629.00	0
Unrefrigerated Warehouse-No Rail	519.66	1000sqft	15.19	519,665.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	536.32	**CH4 Intensity (lb/MWhr)**	0.022	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - RPS 2022 included

Land Use - site ac

Construction Phase - CS

Vehicle Trips - Per TS

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Tier 3

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	562,147.00	366,429.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,686,441.00	1,099,287.00
tblAreaCoating	Area_Nonresidential_Exterior	562147	366429
tblAreaCoating	Area_Nonresidential_Interior	1686441	1099287
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	30.00	10.00
tblConstructionPhase	NumDays	75.00	30.00
tblConstructionPhase	NumDays	55.00	20.00
tblConstructionPhase	NumDays	740.00	400.00
tblConstructionPhase	NumDays	55.00	300.00
tblLandUse	LandUseSquareFeet	456,630.00	456,629.00
tblLandUse	LandUseSquareFeet	519,660.00	519,665.00
tblLandUse	LotAcreage	3.40	15.19
tblLandUse	LotAcreage	10.48	15.19
tblLandUse	LotAcreage	11.93	15.19

tblProjectCharacteristics	CH4IntensityFactor	0.029	0.022
tblProjectCharacteristics	CO2IntensityFactor	702.44	536.32
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblTripsAndVMT	VendorTripNumber	184.00	120.00
tblTripsAndVMT	WorkerTripNumber	457.00	308.00
tblTripsAndVMT	WorkerTripNumber	91.00	62.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	9.37
tblVehicleTrips	CW_TL	16.60	9.37
tblVehicleTrips	CW_TL	16.60	9.37
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	33.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	15.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00

tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	79.00	100.00
tblVehicleTrips	PR_TP	82.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	2.49	3.37
tblVehicleTrips	ST_TR	1.64	9.74
tblVehicleTrips	ST_TR	1.68	2.21
tblVehicleTrips	SU_TR	0.73	3.37
tblVehicleTrips	SU_TR	0.76	9.74
tblVehicleTrips	SU_TR	1.68	2.21
tblVehicleTrips	WD_TR	6.83	3.37
tblVehicleTrips	WD_TR	11.42	9.74
tblVehicleTrips	WD_TR	1.68	2.21

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	1.6780	4.5482	4.1769	0.0111	0.6787	0.1789	0.8577	0.2271	0.1676	0.3947	0.0000	1,006.0722	1,006.0722	0.1261	0.0000	1,009.2244
2021	2.6381	3.1455	3.3913	9.8100e-003	0.4768	0.1096	0.5864	0.1283	0.1036	0.2319	0.0000	893.4740	893.4740	0.0851	0.0000	895.6011
Maximum	**2.6381**	**4.5482**	**4.1769**	**0.0111**	**0.6787**	**0.1789**	**0.8577**	**0.2271**	**0.1676**	**0.3947**	**0.0000**	**1,006.0722**	**1,006.0722**	**0.1261**	**0.0000**	**1,009.2244**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	1.4021	1.7229	4.2775	0.0111	0.6787	0.0159	0.6946	0.2271	0.0154	0.2424	0.0000	1,006.0717	1,006.0717	0.1261	0.0000	1,009.2240
2021	2.4637	1.5025	3.4804	9.8100e-003	0.4768	9.8100e-003	0.4866	0.1283	9.4700e-003	0.1378	0.0000	893.4737	893.4737	0.0851	0.0000	895.6008
Maximum	**2.4637**	**1.7229**	**4.2775**	**0.0111**	**0.6787**	**0.0159**	**0.6946**	**0.2271**	**0.0154**	**0.2424**	**0.0000**	**1,006.0717**	**1,006.0717**	**0.1261**	**0.0000**	**1,009.2240**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**10.44**	**58.08**	**-2.51**	**0.00**	**0.00**	**91.10**	**18.20**	**0.00**	**90.85**	**39.32**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2020	3-31-2020	1.3031	0.1382
2	4-1-2020	6-30-2020	1.1914	0.5822
3	7-1-2020	9-30-2020	1.6516	1.0042
4	10-1-2020	12-31-2020	2.0367	1.3627
5	1-1-2021	3-31-2021	1.8758	1.2858
6	4-1-2021	6-30-2021	1.8886	1.2920
7	7-1-2021	9-30-2021	1.9094	1.3062
		Highest	2.0367	1.3627

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	4.4037	1.3000e-004	0.0144	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0279	0.0279	7.0000e-005	0.0000	0.0297
Energy	0.0166	0.1506	0.1265	9.0000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	1,876.5848	1,876.5848	0.0734	0.0190	1,884.0734
Mobile	1.2076	6.6342	16.5716	0.0630	5.3484	0.0503	5.3987	1.4330	0.0469	1.4799	0.0000	5,815.4769	5,815.4769	0.2760	0.0000	5,822.3773
Waste						0.0000	0.0000		0.0000	0.0000	242.0342	0.0000	242.0342	14.3038	0.0000	599.6296
Water						0.0000	0.0000		0.0000	0.0000	79.9707	842.0430	922.0138	8.2483	0.2018	1,188.3561
Total	**5.6279**	**6.7849**	**16.7125**	**0.0639**	**5.3484**	**0.0618**	**5.4102**	**1.4330**	**0.0584**	**1.4914**	**322.0050**	**8,534.1327**	**8,856.1377**	**22.9016**	**0.2208**	**9,494.4661**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	4.4037	1.3000e-004	0.0144	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0279	0.0279	7.0000e-005	0.0000	0.0297
Energy	0.0166	0.1506	0.1265	9.0000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	1,346.2323	1,346.2323	0.0516	0.0140	1,351.7035
Mobile	1.2076	6.6342	16.5716	0.0630	5.3484	0.0503	5.3987	1.4330	0.0469	1.4799	0.0000	5,815.4769	5,815.4769	0.2760	0.0000	5,822.3773
Waste						0.0000	0.0000		0.0000	0.0000	181.5257	0.0000	181.5257	10.7279	0.0000	449.7222
Water						0.0000	0.0000		0.0000	0.0000	79.9707	842.0430	922.0138	8.2483	0.2018	1,188.3561
Total	**5.6279**	**6.7849**	**16.7125**	**0.0639**	**5.3484**	**0.0618**	**5.4102**	**1.4330**	**0.0584**	**1.4914**	**261.4964**	**8,003.7801**	**8,265.2765**	**19.3039**	**0.2158**	**8,812.1889**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**18.79**	**6.21**	**6.67**	**15.71**	**2.24**	**7.19**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	1/14/2020	5	10	
2	Grading	Grading	1/15/2020	2/25/2020	5	30	
3	Paving	Paving	2/26/2020	3/24/2020	5	20	
4	Building Construction	Building Construction	3/25/2020	10/5/2021	5	400	
5	Architectural Coating	Architectural Coating	8/12/2020	10/5/2021	5	300	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,099,287; Non-Residential Outdoor: 366,429; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Latitude Business Park - South Coast Air Basin, Annual

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	308.00	120.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	62.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

3.2 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.2121	0.1076	1.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
Total	**0.0204**	**0.2121**	**0.1076**	**1.9000e-004**	**0.0903**	**0.0110**	**0.1013**	**0.0497**	**0.0101**	**0.0598**	**0.0000**	**16.7153**	**16.7153**	**5.4100e-003**	**0.0000**	**16.8505**

3.2 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	3.1000e-004	3.4100e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8898	0.8898	3.0000e-005	0.0000	0.8904
Total	**4.0000e-004**	**3.1000e-004**	**3.4100e-003**	**1.0000e-005**	**9.9000e-004**	**1.0000e-005**	**1.0000e-003**	**2.6000e-004**	**1.0000e-005**	**2.7000e-004**	**0.0000**	**0.8898**	**0.8898**	**3.0000e-005**	**0.0000**	**0.8904**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3300e-003	0.0101	0.1043	1.9000e-004		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
Total	**2.3300e-003**	**0.0101**	**0.1043**	**1.9000e-004**	**0.0903**	**3.1000e-004**	**0.0906**	**0.0497**	**3.1000e-004**	**0.0500**	**0.0000**	**16.7153**	**16.7153**	**5.4100e-003**	**0.0000**	**16.8505**

3.2 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	3.1000e-004	3.4100e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8898	0.8898	3.0000e-005	0.0000	0.8904
Total	**4.0000e-004**	**3.1000e-004**	**3.4100e-003**	**1.0000e-005**	**9.9000e-004**	**1.0000e-005**	**1.0000e-003**	**2.6000e-004**	**1.0000e-005**	**2.7000e-004**	**0.0000**	**0.8898**	**0.8898**	**3.0000e-005**	**0.0000**	**0.8904**

3.3 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1301	0.0000	0.1301	0.0540	0.0000	0.0540	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0668	0.7530	0.4794	9.3000e-004		0.0326	0.0326		0.0300	0.0300	0.0000	81.7264	81.7264	0.0264	0.0000	82.3872
Total	**0.0668**	**0.7530**	**0.4794**	**9.3000e-004**	**0.1301**	**0.0326**	**0.1627**	**0.0540**	**0.0300**	**0.0840**	**0.0000**	**81.7264**	**81.7264**	**0.0264**	**0.0000**	**82.3872**

3.3 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3400e-003	1.0300e-003	0.0114	3.0000e-005	3.2900e-003	3.0000e-005	3.3200e-003	8.7000e-004	2.0000e-005	9.0000e-004	0.0000	2.9659	2.9659	9.0000e-005	0.0000	2.9680
Total	**1.3400e-003**	**1.0300e-003**	**0.0114**	**3.0000e-005**	**3.2900e-003**	**3.0000e-005**	**3.3200e-003**	**8.7000e-004**	**2.0000e-005**	**9.0000e-004**	**0.0000**	**2.9659**	**2.9659**	**9.0000e-005**	**0.0000**	**2.9680**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1301	0.0000	0.1301	0.0540	0.0000	0.0540	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0114	0.0495	0.4950	9.3000e-004		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003	0.0000	81.7263	81.7263	0.0264	0.0000	82.3871
Total	**0.0114**	**0.0495**	**0.4950**	**9.3000e-004**	**0.1301**	**1.5200e-003**	**0.1316**	**0.0540**	**1.5200e-003**	**0.0555**	**0.0000**	**81.7263**	**81.7263**	**0.0264**	**0.0000**	**82.3871**

3.3 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3400e-003	1.0300e-003	0.0114	3.0000e-005	3.2900e-003	3.0000e-005	3.3200e-003	8.7000e-004	2.0000e-005	9.0000e-004	0.0000	2.9659	2.9659	9.0000e-005	0.0000	2.9680
Total	**1.3400e-003**	**1.0300e-003**	**0.0114**	**3.0000e-005**	**3.2900e-003**	**3.0000e-005**	**3.3200e-003**	**8.7000e-004**	**2.0000e-005**	**9.0000e-004**	**0.0000**	**2.9659**	**2.9659**	**9.0000e-005**	**0.0000**	**2.9680**

3.4 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0136	0.1407	0.1465	2.3000e-004		7.5300e-003	7.5300e-003		6.9300e-003	6.9300e-003	0.0000	20.0282	20.0282	6.4800e-003	0.0000	20.1902
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0136**	**0.1407**	**0.1465**	**2.3000e-004**		**7.5300e-003**	**7.5300e-003**		**6.9300e-003**	**6.9300e-003**	**0.0000**	**20.0282**	**20.0282**	**6.4800e-003**	**0.0000**	**20.1902**

3.4 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.7000e-004	5.1000e-004	5.6900e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4829	1.4829	4.0000e-005	0.0000	1.4840
Total	**6.7000e-004**	**5.1000e-004**	**5.6900e-003**	**2.0000e-005**	**1.6500e-003**	**1.0000e-005**	**1.6600e-003**	**4.4000e-004**	**1.0000e-005**	**4.5000e-004**	**0.0000**	**1.4829**	**1.4829**	**4.0000e-005**	**0.0000**	**1.4840**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.8000e-003	0.0122	0.1730	2.3000e-004		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	20.0282	20.0282	6.4800e-003	0.0000	20.1901
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.8000e-003**	**0.0122**	**0.1730**	**2.3000e-004**		**3.7000e-004**	**3.7000e-004**		**3.7000e-004**	**3.7000e-004**	**0.0000**	**20.0282**	**20.0282**	**6.4800e-003**	**0.0000**	**20.1901**

3.4 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.7000e-004	5.1000e-004	5.6900e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4829	1.4829	4.0000e-005	0.0000	1.4840
Total	**6.7000e-004**	**5.1000e-004**	**5.6900e-003**	**2.0000e-005**	**1.6500e-003**	**1.0000e-005**	**1.6600e-003**	**4.4000e-004**	**1.0000e-005**	**4.5000e-004**	**0.0000**	**1.4829**	**1.4829**	**4.0000e-005**	**0.0000**	**1.4840**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2141	1.9378	1.7017	2.7200e-003		0.1128	0.1128		0.1061	0.1061	0.0000	233.9261	233.9261	0.0571	0.0000	235.3528
Total	**0.2141**	**1.9378**	**1.7017**	**2.7200e-003**		**0.1128**	**0.1128**		**0.1061**	**0.1061**	**0.0000**	**233.9261**	**233.9261**	**0.0571**	**0.0000**	**235.3528**

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0410	1.2996	0.3277	3.0600e-003	0.0764	6.3600e-003	0.0827	0.0220	6.0800e-003	0.0281	0.0000	296.5126	296.5126	0.0198	0.0000	297.0073
Worker	0.1385	0.1066	1.1802	3.4000e-003	0.3413	2.6500e-003	0.3440	0.0906	2.4400e-003	0.0931	0.0000	307.5429	307.5429	8.8600e-003	0.0000	307.7643
Total	**0.1795**	**1.4062**	**1.5079**	**6.4600e-003**	**0.4177**	**9.0100e-003**	**0.4267**	**0.1127**	**8.5200e-003**	**0.1212**	**0.0000**	**604.0554**	**604.0554**	**0.0287**	**0.0000**	**604.7715**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0331	0.2257	1.7635	2.7200e-003		4.1200e-003	4.1200e-003		4.1200e-003	4.1200e-003	0.0000	233.9258	233.9258	0.0571	0.0000	235.3526
Total	**0.0331**	**0.2257**	**1.7635**	**2.7200e-003**		**4.1200e-003**	**4.1200e-003**		**4.1200e-003**	**4.1200e-003**	**0.0000**	**233.9258**	**233.9258**	**0.0571**	**0.0000**	**235.3526**

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0410	1.2996	0.3277	3.0600e-003	0.0764	6.3600e-003	0.0827	0.0220	6.0800e-003	0.0281	0.0000	296.5126	296.5126	0.0198	0.0000	297.0073
Worker	0.1385	0.1066	1.1802	3.4000e-003	0.3413	2.6500e-003	0.3440	0.0906	2.4400e-003	0.0931	0.0000	307.5429	307.5429	8.8600e-003	0.0000	307.7643
Total	**0.1795**	**1.4062**	**1.5079**	**6.4600e-003**	**0.4177**	**9.0100e-003**	**0.4267**	**0.1127**	**8.5200e-003**	**0.1212**	**0.0000**	**604.0554**	**604.0554**	**0.0287**	**0.0000**	**604.7715**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1882	1.7258	1.6409	2.6700e-003		0.0949	0.0949		0.0892	0.0892	0.0000	229.3209	229.3209	0.0553	0.0000	230.7040
Total	**0.1882**	**1.7258**	**1.6409**	**2.6700e-003**		**0.0949**	**0.0949**		**0.0892**	**0.0892**	**0.0000**	**229.3209**	**229.3209**	**0.0553**	**0.0000**	**230.7040**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0342	1.1556	0.2921	2.9700e-003	0.0749	2.3500e-003	0.0772	0.0216	2.2500e-003	0.0239	0.0000	288.4542	288.4542	0.0186	0.0000	288.9191
Worker	0.1267	0.0941	1.0642	3.2300e-003	0.3345	2.5200e-003	0.3371	0.0889	2.3200e-003	0.0912	0.0000	291.7023	291.7023	7.8500e-003	0.0000	291.8986
Total	**0.1609**	**1.2496**	**1.3562**	**6.2000e-003**	**0.4094**	**4.8700e-003**	**0.4143**	**0.1105**	**4.5700e-003**	**0.1150**	**0.0000**	**580.1565**	**580.1565**	**0.0264**	**0.0000**	**580.8177**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0325	0.2212	1.7286	2.6700e-003		4.0400e-003	4.0400e-003		4.0400e-003	4.0400e-003	0.0000	229.3206	229.3206	0.0553	0.0000	230.7038
Total	**0.0325**	**0.2212**	**1.7286**	**2.6700e-003**		**4.0400e-003**	**4.0400e-003**		**4.0400e-003**	**4.0400e-003**	**0.0000**	**229.3206**	**229.3206**	**0.0553**	**0.0000**	**230.7038**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0342	1.1556	0.2921	2.9700e-003	0.0749	2.3500e-003	0.0772	0.0216	2.2500e-003	0.0239	0.0000	288.4542	288.4542	0.0186	0.0000	288.9191
Worker	0.1267	0.0941	1.0642	3.2300e-003	0.3345	2.5200e-003	0.3371	0.0889	2.3200e-003	0.0912	0.0000	291.7023	291.7023	7.8500e-003	0.0000	291.8986
Total	**0.1609**	**1.2496**	**1.3562**	**6.2000e-003**	**0.4094**	**4.8700e-003**	**0.4143**	**0.1105**	**4.5700e-003**	**0.1150**	**0.0000**	**580.1565**	**580.1565**	**0.0264**	**0.0000**	**580.8177**

3.6 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1549					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0124	0.0859	0.0934	1.5000e-004		5.6600e-003	5.6600e-003		5.6600e-003	5.6600e-003	0.0000	13.0216	13.0216	1.0100e-003	0.0000	13.0468
Total	**1.1673**	**0.0859**	**0.0934**	**1.5000e-004**		**5.6600e-003**	**5.6600e-003**		**5.6600e-003**	**5.6600e-003**	**0.0000**	**13.0216**	**13.0216**	**1.0100e-003**	**0.0000**	**13.0468**

3.6 Architectural Coating - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0141	0.0108	0.1200	3.5000e-004	0.0347	2.7000e-004	0.0350	9.2100e-003	2.5000e-004	9.4600e-003	0.0000	31.2605	31.2605	9.0000e-004	0.0000	31.2830
Total	**0.0141**	**0.0108**	**0.1200**	**3.5000e-004**	**0.0347**	**2.7000e-004**	**0.0350**	**9.2100e-003**	**2.5000e-004**	**9.4600e-003**	**0.0000**	**31.2605**	**31.2605**	**9.0000e-004**	**0.0000**	**31.2830**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1549					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5200e-003	6.5700e-003	0.0935	1.5000e-004		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	13.0216	13.0216	1.0100e-003	0.0000	13.0468
Total	**1.1564**	**6.5700e-003**	**0.0935**	**1.5000e-004**		**2.0000e-004**	**2.0000e-004**		**2.0000e-004**	**2.0000e-004**	**0.0000**	**13.0216**	**13.0216**	**1.0100e-003**	**0.0000**	**13.0468**

3.6 Architectural Coating - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0141	0.0108	0.1200	3.5000e-004	0.0347	2.7000e-004	0.0350	9.2100e-003	2.5000e-004	9.4600e-003	0.0000	31.2605	31.2605	9.0000e-004	0.0000	31.2830
Total	**0.0141**	**0.0108**	**0.1200**	**3.5000e-004**	**0.0347**	**2.7000e-004**	**0.0350**	**9.2100e-003**	**2.5000e-004**	**9.4600e-003**	**0.0000**	**31.2605**	**31.2605**	**9.0000e-004**	**0.0000**	**31.2830**

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.2419					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0217	0.1512	0.1799	2.9000e-004		9.3200e-003	9.3200e-003		9.3200e-003	9.3200e-003	0.0000	25.2772	25.2772	1.7300e-003	0.0000	25.3206
Total	**2.2636**	**0.1512**	**0.1799**	**2.9000e-004**		**9.3200e-003**	**9.3200e-003**		**9.3200e-003**	**9.3200e-003**	**0.0000**	**25.2772**	**25.2772**	**1.7300e-003**	**0.0000**	**25.3206**

3.6 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0255	0.0189	0.2142	6.5000e-004	0.0673	5.1000e-004	0.0679	0.0179	4.7000e-004	0.0184	0.0000	58.7193	58.7193	1.5800e-003	0.0000	58.7588
Total	**0.0255**	**0.0189**	**0.2142**	**6.5000e-004**	**0.0673**	**5.1000e-004**	**0.0679**	**0.0179**	**4.7000e-004**	**0.0184**	**0.0000**	**58.7193**	**58.7193**	**1.5800e-003**	**0.0000**	**58.7588**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.2419					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9400e-003	0.0128	0.1814	2.9000e-004		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	25.2772	25.2772	1.7300e-003	0.0000	25.3206
Total	**2.2448**	**0.0128**	**0.1814**	**2.9000e-004**		**3.9000e-004**	**3.9000e-004**		**3.9000e-004**	**3.9000e-004**	**0.0000**	**25.2772**	**25.2772**	**1.7300e-003**	**0.0000**	**25.3206**

3.6 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0255	0.0189	0.2142	6.5000e-004	0.0673	5.1000e-004	0.0679	0.0179	4.7000e-004	0.0184	0.0000	58.7193	58.7193	1.5800e-003	0.0000	58.7588
Total	**0.0255**	**0.0189**	**0.2142**	**6.5000e-004**	**0.0673**	**5.1000e-004**	**0.0679**	**0.0179**	**4.7000e-004**	**0.0184**	**0.0000**	**58.7193**	**58.7193**	**1.5800e-003**	**0.0000**	**58.7588**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.2076	6.6342	16.5716	0.0630	5.3484	0.0503	5.3987	1.4330	0.0469	1.4799	0.0000	5,815.4769	5,815.4769	0.2760	0.0000	5,822.3773
Unmitigated	1.2076	6.6342	16.5716	0.0630	5.3484	0.0503	5.3987	1.4330	0.0469	1.4799	0.0000	5,815.4769	5,815.4769	0.2760	0.0000	5,822.3773

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	1,538.84	1,538.84	1538.84	5,248,501	5,248,501
Office Park	1,441.52	1,441.52	1441.52	4,916,563	4,916,563
Unrefrigerated Warehouse-No Rail	1,148.45	1,148.45	1148.45	3,916,991	3,916,991
Total	4,128.81	4,128.81	4,128.81	14,082,055	14,082,055

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Industrial Park	9.37	0.00	0.00	100.00	0.00	0.00	100	0	0
Office Park	9.37	0.00	0.00	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-No	9.37	0.00	0.00	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Office Park	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896
Industrial Park	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896
Unrefrigerated Warehouse-No Rail	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,182.3209	1,182.3209	0.0485	0.0110	1,186.8181
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,712.6735	1,712.6735	0.0703	0.0160	1,719.1880
NaturalGas Mitigated	0.0166	0.1506	0.1265	9.0000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	163.9113	163.9113	3.1400e-003	3.0100e-003	164.8854
NaturalGas Unmitigated	0.0166	0.1506	0.1265	9.0000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	163.9113	163.9113	3.1400e-003	3.0100e-003	164.8854

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Industrial Park	1.5845e+006	8.5400e-003	0.0777	0.0652	4.7000e-004		5.9000e-003	5.9000e-003		5.9000e-003	5.9000e-003	0.0000	84.5551	84.5551	1.6200e-003	1.5500e-003	85.0576
Office Park	432160	2.3300e-003	0.0212	0.0178	1.3000e-004		1.6100e-003	1.6100e-003		1.6100e-003	1.6100e-003	0.0000	23.0617	23.0617	4.4000e-004	4.2000e-004	23.1988
Unrefrigerated Warehouse-No Rail	1.05492e+006	5.6900e-003	0.0517	0.0434	3.1000e-004		3.9300e-003	3.9300e-003		3.9300e-003	3.9300e-003	0.0000	56.2946	56.2946	1.0800e-003	1.0300e-003	56.6291
Total		**0.0166**	**0.1506**	**0.1265**	**9.1000e-004**		**0.0114**	**0.0114**		**0.0114**	**0.0114**	**0.0000**	**163.9113**	**163.9113**	**3.1400e-003**	**3.0000e-003**	**164.8854**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Industrial Park	1.5845e+006	8.5400e-003	0.0777	0.0652	4.7000e-004		5.9000e-003	5.9000e-003		5.9000e-003	5.9000e-003	0.0000	84.5551	84.5551	1.6200e-003	1.5500e-003	85.0576
Office Park	432160	2.3300e-003	0.0212	0.0178	1.3000e-004		1.6100e-003	1.6100e-003		1.6100e-003	1.6100e-003	0.0000	23.0617	23.0617	4.4000e-004	4.2000e-004	23.1988
Unrefrigerated Warehouse-No Rail	1.05492e+006	5.6900e-003	0.0517	0.0434	3.1000e-004		3.9300e-003	3.9300e-003		3.9300e-003	3.9300e-003	0.0000	56.2946	56.2946	1.0800e-003	1.0300e-003	56.6291
Total		**0.0166**	**0.1506**	**0.1265**	**9.1000e-004**		**0.0114**	**0.0114**		**0.0114**	**0.0114**	**0.0000**	**163.9113**	**163.9113**	**3.1400e-003**	**3.0000e-003**	**164.8854**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Industrial Park	4.34711e+006	1,057.5239	0.0434	9.8600e-003	1,061.5464
Office Park	1.46668e+006	356.8002	0.0146	3.3300e-003	358.1574
Unrefrigerated Warehouse-No Rail	1.22641e+006	298.3494	0.0122	2.7800e-003	299.4843
Total		**1,712.6735**	**0.0703**	**0.0160**	**1,719.1880**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Industrial Park	3.09366e+006	752.5971	0.0309	7.0200e-003	755.4597
Office Park	996040	242.3073	9.9400e-003	2.2600e-003	243.2290
Unrefrigerated Warehouse-No Rail	770403	187.4165	7.6900e-003	1.7500e-003	188.1294
Total		**1,182.3209**	**0.0485**	**0.0110**	**1,186.8181**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.4037	1.3000e-004	0.0144	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0279	0.0279	7.0000e-005	0.0000	0.0297
Unmitigated	4.4037	1.3000e-004	0.0144	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0279	0.0279	7.0000e-005	0.0000	0.0297

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3397					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.0626					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.3400e-003	1.3000e-004	0.0144	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0279	0.0279	7.0000e-005	0.0000	0.0297
Total	**4.4037**	**1.3000e-004**	**0.0144**	**0.0000**		**5.0000e-005**	**5.0000e-005**		**5.0000e-005**	**5.0000e-005**	**0.0000**	**0.0279**	**0.0279**	**7.0000e-005**	**0.0000**	**0.0297**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3397					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.0626					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.3400e-003	1.3000e-004	0.0144	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0279	0.0279	7.0000e-005	0.0000	0.0297
Total	**4.4037**	**1.3000e-004**	**0.0144**	**0.0000**		**5.0000e-005**	**5.0000e-005**		**5.0000e-005**	**5.0000e-005**	**0.0000**	**0.0279**	**0.0279**	**7.0000e-005**	**0.0000**	**0.0297**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	922.0138	8.2483	0.2018	1,188.3561
Unmitigated	922.0138	8.2483	0.2018	1,188.3561

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	105.596 / 0	367.9884	3.4546	0.0844	479.4928
Office Park	26.3046 / 16.1222	135.2424	0.8623	0.0214	163.1846
Unrefrigerated Warehouse-No Rail	120.171 / 0	418.7830	3.9314	0.0960	545.6787
Total		**922.0138**	**8.2483**	**0.2018**	**1,188.3561**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	105.596 / 0	367.9884	3.4546	0.0844	479.4928
Office Park	26.3046 / 16.1222	135.2424	0.8623	0.0214	163.1846
Unrefrigerated Warehouse-No Rail	120.171 / 0	418.7830	3.9314	0.0960	545.6787
Total		**922.0138**	**8.2483**	**0.2018**	**1,188.3561**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	181.5257	10.7279	0.0000	449.7222
Unmitigated	242.0342	14.3038	0.0000	599.6296

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	566.22	114.9375	6.7926	0.0000	284.7529
Office Park	137.64	27.9397	1.6512	0.0000	69.2194
Unrefrigerated Warehouse-No Rail	488.48	99.1570	5.8600	0.0000	245.6573
Total		**242.0343**	**14.3038**	**0.0000**	**599.6296**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	424.665	86.2032	5.0945	0.0000	213.5647
Office Park	103.23	20.9548	1.2384	0.0000	51.9145
Unrefrigerated Warehouse-No Rail	366.36	74.3678	4.3950	0.0000	184.2430
Total		**181.5257**	**10.7279**	**0.0000**	**449.7222**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

ATTACHMENT B

AERMOD – Tier 4 Equipment

```
1                     AERMOD PRIME - (DATED  18081)

                    AERMODPrMSPx VERSION
              (C) COPYRIGHT 1998-2017, Trinity Consultants

 Run Began on  5/04/2019 at  9:21:35

** BREEZE AERMOD
** Trinity Consultants
** VERSION  8.1

CO STARTING
CO TITLEONE  Latitude PM10 Construction
CO MODELOPT  DFAULT  CONC  NODRYDPLT  NOWETDPLT
CO RUNORNOT  RUN
CO AVERTIME  ANNUAL
CO POLLUTID  PM10
CO FINISHED

SO STARTING
SO ELEVUNIT  METERS
SO LOCATION  JUVEM000  AREAPOLY  451194.7  3743326.2  0
** SRCDESCR  Area Source
SO SRCPARAM  JUVEM000  1.24E-09  3  12  1
SO AREAVERT  JUVEM000  451194.7 3743326.2  451286 3743218.4  451430.7 3743063.6  451550 3742958.3
SO AREAVERT  JUVEM000  451603.3 3742907.5  452369.7 3743256.5  452379.8 3743272.9  452313.9 3743333.9
SO AREAVERT  JUVEM000  451958.6 3743342.7  451558.8 3743328.8  451558.8 3743328.8  451194.7 3743326.2
SO SRCGROUP  ALL
SO FINISHED

RE STARTING
RE ELEVUNIT  METERS
RE GRIDCART RLPS4001 STA
RE GRIDCART RLPS4001 XYINC  450567.8  21  121.5  3744266.3  21  -119.3
RE GRIDCART RLPS4001 ELEV  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  3  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  4  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  5  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  6  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  7  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  8  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  9  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  10  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  11  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  12  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  13  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  14  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  15  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  16  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  17  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  18  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  19  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  20  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  21  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  3  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  4  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  5  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  6  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  7  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  8  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  9  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  10  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  11  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  12  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  13  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  14  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
```

```
RE GRIDCART RLPS4001 HILL  15  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  16  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  17  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  18  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  19  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  20  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  21  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 END
RE DISCCART  451808.8  3743414  0  0
** SENSITIV
** RCPDESCR  R1
RE DISCCART  451611.1  3743386.1  0  0
** SENSITIV
** RCPDESCR  R2
RE DISCCART  451395.1  3743364.6  0  0
** SENSITIV
** RCPDESCR  R3
RE DISCCART  451274.7  3743360.3  0  0
** SENSITIV
** RCPDESCR  R4
RE DISCCART  451170.5  3743172.2  0  0
** SENSITIV
** RCPDESCR  R5
RE DISCCART  451376.8  3742977.7  0  0
** SENSITIV
** RCPDESCR  R6
RE FINISHED

ME STARTING
ME SURFFILE  "C:\Users\XEONRT\AMAZON~1\LDN\19-05L~1\AERMOD\LAKEEL~1\ELSI8.SFC"
** SURFFILE  "C:\Users\XEONRT\AMAZON~1\LDN\19-05L~1\AERMOD\LAKEEL~1\ELSI8.SFC"
ME PROFFILE  "C:\Users\XEONRT\AMAZON~1\LDN\19-05L~1\AERMOD\LAKEEL~1\ELSI8.PFL"
** PROFFILE  "C:\Users\XEONRT\AMAZON~1\LDN\19-05L~1\AERMOD\LAKEEL~1\ELSI8.PFL"
ME SURFDATA  0 2008
ME UAIRDATA  3190 2008
ME SITEDATA  00099999 2008
ME PROFBASE  0  METERS
ME STARTEND  2012  1  1  1  2012  12  31  24
ME FINISHED

OU STARTING
OU FILEFORM  FIX
OU PLOTFILE  ANNUAL  ALL  ALL`ANNUAL.plt  10000
OU FINISHED

** ********************************************************************************
** It is recommended that the user not edit any data below this line
** ********************************************************************************


** AMPTYPE
** AMPDATUM  -1
** AMPZONE  -1
** AMPHEMISPHERE

** PROJECTIONWKT
PROJCS["UTM_6326_Zone11",GEOGCS["WGS_84",DATUM["World_Geodetic_System_1984",SPHEROID["WGS_1984",6378137,298.2572235
63],TOWGS84[0,0,0,0,0,0,0]],PRIMEM["Greenwich",0],UNIT["Degree",0.0174532925199433]],PROJECTION["Universal_Transver
se_Mercator"],PARAMETER["Zone",11],UNIT["Meter",1,AUTHORITY["EPSG","9001"]]]
** PROJECTION  UTM
** DATUM  WGE
** UNITS  METER
** ZONE  11
** HEMISPHERE  N
** ORIGINLON  0
** ORIGINLAT  0
** PARALLEL1  0
** PARALLEL2  0
** AZIMUTH  0
```

```
** SCALEFACT  0
** FALSEEAST  0
** FALSENORTH  0

** POSTFMT  UNFORM
** TEMPLATE UserDefined
** AERMODEXE  AERMOD_BREEZE_18081_64.EXE
** AERMAPEXE  AERMAP_EPA_18081_64.EXE


 **********************************
 *** SETUP Finishes Successfully ***
 **********************************

 *** AERMOD - VERSION  18081 ***   ***  Latitude PM10 Construction                                          ***
     05/04/19
 *** AERMET - VERSION  14134 ***   ***                                                                    ***
   09:21:35

   PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL

                                          ***     MODEL SETUP OPTIONS SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - -

 **Model Is Setup For Calculation of Average CONCentration Values.

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses RURAL Dispersion Only.

 **Model Uses Regulatory DEFAULT Options:
        1. Stack-tip Downwash.
        2. Model Accounts for ELEVated Terrain Effects.
        3. Use Calms Processing Routine.
        4. Use Missing Data Processing Routine.
        5. No Exponential Decay.

 **Other Options Specified:
        TEMP_Sub - Meteorological data includes TEMP substitutions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of:  PM10

 **Model Calculates ANNUAL Averages Only

 **This Run Includes:      1 Source(s);       1 Source Group(s); and     447 Receptor(s)

               with:       0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                and:       0 VOLUME source(s)
                and:       1 AREA type source(s)
                and:       0 LINE source(s)
                and:       0 OPENPIT source(s)
                and:       0 BUOYANT LINE source(s) with      0 line(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  14134

 **Output Options Selected:
         Model Outputs Tables of ANNUAL Averages by Receptor
```

Model Outputs External File(s) of High Values for Plotting (PLOTFILE 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) = 0.00 ; 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

*** AREAPOLY SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	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)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
JUVEM000	0	0.12400E-08	451194.7	3743326.2	0.0	3.00	12	1.00	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
ALL	JUVEM000 ,

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: RLPS4001 ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

450567.8, 450689.3, 450810.8, 450932.3, 451053.8, 451175.3, 451296.8, 451418.3, 451539.8, 451661.3,

451782.8, 451904.3, 452025.8, 452147.3, 452268.8, 452390.3, 452511.8, 452633.3, 452754.8, 452876.3,
452997.8,

*** Y-COORDINATES OF GRID ***
(METERS)

3744266.3, 3744147.0, 3744027.7, 3743908.4, 3743789.1, 3743669.8, 3743550.5, 3743431.2, 3743311.9, 3743192.6,
3743073.3, 3742954.0, 3742834.7, 3742715.4, 3742596.1, 3742476.8, 3742357.5, 3742238.2, 3742118.9, 3741999.6,
3741880.3,

*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL

*** NETWORK ID: RLPS4001 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	450567.80	450689.30	450810.80	450932.30	451053.80	451175.30	451296.80	451418.30	451539.80
3741880.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3741999.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742118.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742238.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742357.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742476.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742596.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742715.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742834.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742954.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3743073.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3743192.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3743311.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3743431.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3743550.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3743669.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3743789.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3743908.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3744027.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3744147.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3744266.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

*** NETWORK ID: RLPS4001 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	451661.30	451782.80	451904.30	452025.80	452147.30	452268.80	452390.30	452511.80	452633.30
3741880.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3741999.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742118.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742238.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742357.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742476.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742596.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742715.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742834.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742954.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3743073.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3743192.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3743311.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3743431.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3743550.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3743669.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3743789.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3743908.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3744027.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3744147.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3744266.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

*** NETWORK ID: RLPS4001 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)		
	452754.80	452876.30	452997.80
3741880.30	0.00	0.00	0.00
3741999.60	0.00	0.00	0.00
3742118.90	0.00	0.00	0.00
3742238.20	0.00	0.00	0.00
3742357.50	0.00	0.00	0.00
3742476.80	0.00	0.00	0.00
3742596.10	0.00	0.00	0.00
3742715.40	0.00	0.00	0.00
3742834.70	0.00	0.00	0.00
3742954.00	0.00	0.00	0.00
3743073.30	0.00	0.00	0.00
3743192.60	0.00	0.00	0.00
3743311.90	0.00	0.00	0.00
3743431.20	0.00	0.00	0.00
3743550.50	0.00	0.00	0.00
3743669.80	0.00	0.00	0.00
3743789.10	0.00	0.00	0.00
3743908.40	0.00	0.00	0.00
3744027.70	0.00	0.00	0.00
3744147.00	0.00	0.00	0.00
3744266.30	0.00	0.00	0.00

*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL

*** NETWORK ID: RLPS4001 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)						
	450567.80	450689.30	450810.80	450932.30	451053.80	451175.30	451296.80
3741880.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3741999.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742118.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742238.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742357.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742476.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742596.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742715.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742834.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742954.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3743073.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Y-COORD (METERS)	X-COORD (METERS)	
	451418.30	451539.80
3741880.30	0.00	0.00
3741999.60	0.00	0.00
3742118.90	0.00	0.00
3742238.20	0.00	0.00
3742357.50	0.00	0.00
3742476.80	0.00	0.00
3742596.10	0.00	0.00
3742715.40	0.00	0.00
3742834.70	0.00	0.00
3742954.00	0.00	0.00
3743073.30	0.00	0.00

 *** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL

                              *** NETWORK ID: RLPS4001 ; NETWORK TYPE: GRIDCART ***

                                        * HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)							
	451661.30	451782.80	451904.30	452025.80	452147.30	452268.80	452390.30	452511.80	452633.30
3741880.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3741999.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742118.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742238.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742357.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742476.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742596.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742715.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742834.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742954.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3743073.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3743192.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3743311.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3743431.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3743550.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3743669.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3743789.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3743908.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3744027.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3744147.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3744266.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

```
0.00         0.00
  3743789.10 |         0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3743908.40 |         0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3744027.70 |         0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3744147.00 |         0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3744266.30 |         0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
↑ *** AERMOD - VERSION  18081 ***   ***  Latitude PM10 Construction                                    ***
     05/04/19
 *** AERMET - VERSION  14134 ***   ***                                                                 ***
   09:21:35

   PAGE  10
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL

                                  *** NETWORK ID: RLPS4001 ;  NETWORK TYPE: GRIDCART ***

                                                * HILL HEIGHT SCALES IN METERS *

    Y-COORD  |                                             X-COORD (METERS)
    (METERS) |     452754.80    452876.30    452997.80
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - -

  3741880.30 |         0.00         0.00         0.00
  3741999.60 |         0.00         0.00         0.00
  3742118.90 |         0.00         0.00         0.00
  3742238.20 |         0.00         0.00         0.00
  3742357.50 |         0.00         0.00         0.00
  3742476.80 |         0.00         0.00         0.00
  3742596.10 |         0.00         0.00         0.00
  3742715.40 |         0.00         0.00         0.00
  3742834.70 |         0.00         0.00         0.00
  3742954.00 |         0.00         0.00         0.00
  3743073.30 |         0.00         0.00         0.00
  3743192.60 |         0.00         0.00         0.00
  3743311.90 |         0.00         0.00         0.00
  3743431.20 |         0.00         0.00         0.00
  3743550.50 |         0.00         0.00         0.00
  3743669.80 |         0.00         0.00         0.00
  3743789.10 |         0.00         0.00         0.00
  3743908.40 |         0.00         0.00         0.00
  3744027.70 |         0.00         0.00         0.00
  3744147.00 |         0.00         0.00         0.00
  3744266.30 |         0.00         0.00         0.00
↑ *** AERMOD - VERSION  18081 ***   ***  Latitude PM10 Construction                                    ***
     05/04/19
 *** AERMET - VERSION  14134 ***   ***                                                                 ***
   09:21:35

   PAGE  11
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL

                                        *** 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

                    METEOROLOGICAL DATA PROCESSED BETWEEN START DATE: 2012   1  1  1
                                                        AND END DATE: 2012  12 31 24

               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,
* *** AERMOD - VERSION  18081 ***   ***  Latitude PM10 Construction                                          ***
     05/04/19
 *** AERMET - VERSION  14134 ***   ***                                                                     ***
   09:21:35

   PAGE  12
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL

                                    *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

   Surface file:   C:\Users\XEONRT\AMAZON~1\LDN\19-05L~1\AERMOD\LAKEEL~1\ELSI8.SFC                    Met Version:
14134
   Profile file:   C:\Users\XEONRT\AMAZON~1\LDN\19-05L~1\AERMOD\LAKEEL~1\ELSI8.PFL
   Surface format: FREE

   Profile format: FREE

   Surface station no.:        0                 Upper air station no.:     3190
                 Name: UNKNOWN                                  Name: UNKNOWN
                 Year:   2008                                   Year:   2008

 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
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - -
 08 01 01   1 01 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23   1.00   1.00  999.00  999.   -9.0  284.2
 5.5
 08 01 01   1 02 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23   1.00   1.00  999.00  999.   -9.0  283.1
 5.5
 08 01 01   1 03 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23   1.00   1.00  999.00  999.   -9.0  283.1
 5.5
 08 01 01   1 04 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23   1.00   1.00  999.00  999.   -9.0  283.8
 5.5
 08 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23   1.00   1.00  999.00  999.   -9.0  283.8
 5.5
 08 01 01   1 06 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23   1.00   1.00  999.00  999.   -9.0  283.8
 5.5
 08 01 01   1 07 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23   1.00   1.00  999.00  999.   -9.0  283.1
 5.5
 08 01 01   1 08 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23   1.00   0.54  999.00  999.   -9.0  283.8
 5.5
 08 01 01   1 09   27.2 -9.000 -9.000 -9.000   60. -999. -99999.0  0.23   1.00   0.33  999.00  999.   -9.0  285.9
 5.5
 08 01 01   1 10   74.6 -9.000 -9.000 -9.000  157. -999. -99999.0  0.23   1.00   0.25  999.00  999.   -9.0  288.1
 5.5
 08 01 01   1 11  107.4 -9.000 -9.000 -9.000  375. -999. -99999.0  0.23   1.00   0.23  999.00  999.   -9.0  289.9
 5.5
 08 01 01   1 12  122.7 -9.000 -9.000 -9.000  578. -999. -99999.0  0.23   1.00   0.22  999.00  999.   -9.0  289.9
 5.5
```

```
 08 01 01   1 13  121.3 -9.000 -9.000 -9.000  714. -999. -99999.0  0.23   1.00   0.22  999.00  999.   -9.0  291.4
5.5
 08 01 01   1 14  102.1 -9.000 -9.000 -9.000  763. -999. -99999.0  0.23   1.00   0.23  999.00  999.   -9.0  292.0
5.5
 08 01 01   1 15   65.8 -9.000 -9.000 -9.000  792. -999. -99999.0  0.23   1.00   0.27  999.00  999.   -9.0  291.4
5.5
 08 01 01   1 16   16.0 -9.000 -9.000 -9.000  798. -999. -99999.0  0.23   1.00   0.36  999.00  999.   -9.0  290.4
5.5
 08 01 01   1 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23   1.00   0.63  999.00  999.   -9.0  288.8
5.5
 08 01 01   1 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23   1.00   1.00  999.00  999.   -9.0  287.5
5.5
 08 01 01   1 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23   1.00   1.00  999.00  999.   -9.0  286.4
5.5
 08 01 01   1 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23   1.00   1.00  999.00  999.   -9.0  285.4
5.5
 08 01 01   1 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23   1.00   1.00  999.00  999.   -9.0  284.2
5.5
 08 01 01   1 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23   1.00   1.00  999.00  999.   -9.0  283.1
5.5
 08 01 01   1 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23   1.00   1.00  999.00  999.   -9.0  283.1
5.5
 08 01 01   1 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23   1.00   1.00  999.00  999.   -9.0  282.5
5.5


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 08 01 01 01    5.5 0 -999.  -99.00   284.3   99.0  -99.00  -99.00
 08 01 01 01    9.1 1 -999.  -99.00  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
 *** AERMOD - VERSION  18081 ***   ***  Latitude PM10 Construction                                    ***
     05/04/19
 *** AERMET - VERSION  14134 ***   ***                                                              ***
   09:21:35

   PAGE  13
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL

                   *** THE ANNUAL AVERAGE CONCENTRATION    VALUES AVERAGED OVER   1 YEARS FOR SOURCE GROUP: ALL
 ***
                                  INCLUDING SOURCE(S):     JUVEM000    ,

                                   *** NETWORK ID: RLPS4001 ;  NETWORK TYPE: GRIDCART ***

                                        ** CONC OF PM10     IN MICROGRAMS/M**3                        **

    Y-COORD  |                                              X-COORD (METERS)
    (METERS) |     450567.80    450689.30    450810.80    450932.30    451053.80    451175.30    451296.80
451418.30    451539.80
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - -

  3741880.30 |       0.00119      0.00133      0.00148      0.00166      0.00185      0.00203      0.00221
0.00238      0.00254
  3741999.60 |       0.00127      0.00142      0.00160      0.00181      0.00204      0.00227      0.00250
0.00273      0.00295
  3742118.90 |       0.00134      0.00153      0.00173      0.00198      0.00226      0.00256      0.00286
0.00316      0.00347
  3742238.20 |       0.00141      0.00162      0.00188      0.00217      0.00251      0.00290      0.00330
0.00372      0.00415
  3742357.50 |       0.00145      0.00171      0.00201      0.00238      0.00281      0.00331      0.00386
0.00445      0.00507
  3742476.80 |       0.00148      0.00177      0.00213      0.00258      0.00314      0.00380      0.00457
0.00545      0.00638
  3742596.10 |       0.00152      0.00182      0.00222      0.00276      0.00347      0.00438      0.00549
0.00684      0.00834
  3742715.40 |       0.00156      0.00188      0.00231      0.00293      0.00379      0.00501      0.00666
```

0.00886 0.01156
3742834.70 | 0.00160 0.00194 0.00241 0.00310 0.00414 0.00572 0.00814
0.01189 0.01762
3742954.00 | 0.00167 0.00202 0.00253 0.00329 0.00452 0.00662 0.01028
0.01714 0.03130
3743073.30 | 0.00176 0.00213 0.00266 0.00349 0.00492 0.00771 0.01377
0.03028 0.04961
3743192.60 | 0.00182 0.00222 0.00280 0.00371 0.00534 0.00911 0.02215
0.04463 0.05124
3743311.90 | 0.00185 0.00228 0.00292 0.00395 0.00593 0.01138 0.02954
0.03758 0.04055
3743431.20 | 0.00190 0.00237 0.00310 0.00436 0.00693 0.01339 0.01986
0.02317 0.02455
3743550.50 | 0.00203 0.00257 0.00343 0.00490 0.00767 0.01173 0.01475
0.01620 0.01668
3743669.80 | 0.00218 0.00281 0.00375 0.00528 0.00762 0.01004 0.01163
0.01229 0.01231
3743789.10 | 0.00235 0.00300 0.00397 0.00541 0.00712 0.00857 0.00944
0.00971 0.00952
3743908.40 | 0.00248 0.00314 0.00409 0.00529 0.00647 0.00735 0.00781
0.00786 0.00757
3744027.70 | 0.00257 0.00323 0.00409 0.00501 0.00580 0.00633 0.00654
0.00646 0.00613
3744147.00 | 0.00264 0.00327 0.00398 0.00465 0.00516 0.00546 0.00553
0.00538 0.00504
3744266.30 | 0.00268 0.00323 0.00378 0.00426 0.00458 0.00473 0.00471
0.00452 0.00419

*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 1 YEARS FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): JUVEM000 ,

*** NETWORK ID: RLPS4001 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)							
	451661.30	451782.80	451904.30	452025.80	452147.30	452268.80	452390.30	452511.80	452633.30
3741880.30	0.00273	0.00292	0.00308	0.00322	0.00337	0.00352	0.00359	0.00355	0.00340
3741999.60	0.00319	0.00343	0.00363	0.00381	0.00401	0.00414	0.00414	0.00398	0.00373
3742118.90	0.00379	0.00409	0.00435	0.00461	0.00483	0.00488	0.00474	0.00444	0.00406
3742238.20	0.00459	0.00499	0.00535	0.00569	0.00584	0.00571	0.00538	0.00491	0.00438
3742357.50	0.00569	0.00626	0.00679	0.00713	0.00706	0.00665	0.00607	0.00540	0.00469
3742476.80	0.00730	0.00819	0.00886	0.00895	0.00848	0.00771	0.00682	0.00588	0.00496
3742596.10	0.00987	0.01124	0.01177	0.01124	0.01017	0.00890	0.00760	0.00633	0.00516
3742715.40	0.01444	0.01621	0.01570	0.01412	0.01221	0.01026	0.00843	0.00674	0.00528
3742834.70	0.02403	0.02396	0.02115	0.01794	0.01481	0.01192	0.00936	0.00713	0.00529
3742954.00	0.04133	0.03638	0.02968	0.02373	0.01862	0.01421	0.01049	0.00743	0.00510

```
  3743073.30 |       0.05229      0.04960      0.04313      0.03402      0.02518      0.01785      0.01192
0.00738      0.00473
  3743192.60 |       0.05238      0.05112      0.04802      0.04278      0.03488      0.02444      0.01357
0.00664      0.00438
  3743311.90 |       0.04127      0.04077      0.03920      0.03616      0.03132      0.02454      0.01113
0.00603      0.00415
  3743431.20 |       0.02480      0.02424      0.02296      0.02067      0.01739      0.01234      0.00759
0.00534      0.00386
  3743550.50 |       0.01650      0.01577      0.01451      0.01270      0.01031      0.00745      0.00552
0.00443      0.00350
  3743669.80 |       0.01189      0.01110      0.00996      0.00850      0.00678      0.00524      0.00424
0.00362      0.00308
  3743789.10 |       0.00898      0.00818      0.00718      0.00601      0.00483      0.00393      0.00335
0.00297      0.00265
  3743908.40 |       0.00700      0.00625      0.00536      0.00445      0.00365      0.00307      0.00269
0.00245      0.00226
  3744027.70 |       0.00559      0.00490      0.00414      0.00344      0.00286      0.00246      0.00219
0.00203      0.00192
  3744147.00 |       0.00454      0.00393      0.00331      0.00275      0.00232      0.00202      0.00182
0.00170      0.00163
  3744266.30 |       0.00374      0.00322      0.00271      0.00227      0.00193      0.00169      0.00153
0.00143      0.00138
1 *** AERMOD - VERSION  18081 ***   ***  Latitude PM10 Construction                                        ***
     05/04/19
 *** AERMET - VERSION  14134 ***   ***                                                                   ***
   09:21:35

   PAGE  15
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL

                   *** THE ANNUAL AVERAGE CONCENTRATION    VALUES AVERAGED OVER   1 YEARS FOR SOURCE GROUP: ALL
 ***
                                  INCLUDING SOURCE(S):     JUVEM000    ,

                                   *** NETWORK ID: RLPS4001 ;  NETWORK TYPE: GRIDCART ***

                                        ** CONC OF PM10     IN MICROGRAMS/M**3                          **

    Y-COORD  |                                              X-COORD (METERS)
    (METERS) |     452754.80    452876.30    452997.80
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - -

  3741880.30 |       0.00318      0.00292      0.00264
  3741999.60 |       0.00341      0.00308      0.00274
  3742118.90 |       0.00364      0.00322      0.00280
  3742238.20 |       0.00385      0.00332      0.00283
  3742357.50 |       0.00401      0.00338      0.00280
  3742476.80 |       0.00412      0.00335      0.00271
  3742596.10 |       0.00413      0.00326      0.00259
  3742715.40 |       0.00405      0.00312      0.00246
  3742834.70 |       0.00389      0.00296      0.00235
  3742954.00 |       0.00366      0.00280      0.00225
  3743073.30 |       0.00342      0.00266      0.00217
  3743192.60 |       0.00326      0.00256      0.00209
  3743311.90 |       0.00313      0.00248      0.00204
  3743431.20 |       0.00298      0.00240      0.00199
  3743550.50 |       0.00277      0.00226      0.00189
  3743669.80 |       0.00256      0.00212      0.00179
  3743789.10 |       0.00232      0.00199      0.00169
  3743908.40 |       0.00206      0.00183      0.00160
  3744027.70 |       0.00180      0.00166      0.00150
  3744147.00 |       0.00156      0.00148      0.00138
  3744266.30 |       0.00135      0.00130      0.00124
1 *** AERMOD - VERSION  18081 ***   ***  Latitude PM10 Construction                                        ***
     05/04/19
 *** AERMET - VERSION  14134 ***   ***                                                                   ***
   09:21:35
```

*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 1 YEARS FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): JUVEM000 ,

*** SENSITIVE DISCRETE RECEPTOR POINTS ***

** CONC OF PM10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
451808.80	3743414.00	0.02586	451611.10	3743386.10	0.02989
451395.10	3743364.60	0.02956	451274.70	3743360.30	0.02365
451170.50	3743172.20	0.00862	451376.80	3742977.70	0.01536

*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL

*** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 1 YEARS ***

** CONC OF PM10 IN MICROGRAMS/M**3 **

NETWORK GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)					OF TYPE GRID-ID
ALL	1ST HIGHEST VALUE IS	0.05238	451661.30,	3743192.60,	0.00,	0.00,	0.00)	GC RLPS4001
	2ND HIGHEST VALUE IS	0.05229	451661.30,	3743073.30,	0.00,	0.00,	0.00)	GC RLPS4001
	3RD HIGHEST VALUE IS	0.05124	451539.80,	3743192.60,	0.00,	0.00,	0.00)	GC RLPS4001
	4TH HIGHEST VALUE IS	0.05112	451782.80,	3743192.60,	0.00,	0.00,	0.00)	GC RLPS4001
	5TH HIGHEST VALUE IS	0.04961	451539.80,	3743073.30,	0.00,	0.00,	0.00)	GC RLPS4001
	6TH HIGHEST VALUE IS	0.04960	451782.80,	3743073.30,	0.00,	0.00,	0.00)	GC RLPS4001
	7TH HIGHEST VALUE IS	0.04802	451904.30,	3743192.60,	0.00,	0.00,	0.00)	GC RLPS4001
	8TH HIGHEST VALUE IS	0.04463	451418.30,	3743192.60,	0.00,	0.00,	0.00)	GC RLPS4001
	9TH HIGHEST VALUE IS	0.04313	451904.30,	3743073.30,	0.00,	0.00,	0.00)	GC RLPS4001
	10TH HIGHEST VALUE IS	0.04278	452025.80,	3743192.60,	0.00,	0.00,	0.00)	GC RLPS4001

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL

*** Message Summary : AERMOD Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 1916 Informational Message(s)

A Total of 8784 Hours Were Processed

A Total of 3 Calm Hours Identified

A Total of 468 Missing Hours Identified (5.33 Percent)

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********
*** NONE ***

****
*** AERMOD Finishes Successfully ***
****

ATTACHMENT C

Cancer Risk Calculation Spreadsheet

Air Quality Health Risk Calculations (Worst-Case)
Latitude Industrial Park Tier 4

From CalEE Annual Output	Emission per day (Ton/Total Construction Duration)	**0.01095**
	Construction Start	**1/1/2020**
	Construction Complete	**5/18/2021**
	Days	**503**
	Construction Emission per day (lb/day)	**0.043538767**
	Annual Duration (Days)	**365**
input to AERMOD	Annualized Emission Rate (Grams/Second)	**0.000228276**
	Project Site Size (Acres)	**45.58**
	Project Site Size (meters^2)	**184455.7157**
	Length of Smalles Side (meters)	**429.4830797**
From AERMOD	Concentration Annual (Ug/M^3)	**0.0299**

	Days	Days to years				
Duration	503	1.378082192				
Age (Years)	3rd Trimester (0.25)	0-2	2-9	2-16	16-30	16-70
Cair (annual) - From F15	0.0299	0.0299	0.0299	0.0299	0.0299	0.0299
Breathing Rate per agegroup BR/BW (Page 5-25)	361	1090	861	745	335	290
A (Default is 1)	1	1	1	1	1	1
Exposure Frequency = EF (days/365days)	0.96	0.96	0.96	0.96	0.96	0.96
10^-6 Microgram to Milligram / liters to m3	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001
Dose-inh	0.00001036	0.00003129	0.00002471	0.00002138	0.00000962	0.00000832
Construction Days	503	1.378082192				
potency factor for Diesel	1.1	1.1	1.1	1.1	1.1	1.1
Age Sensitivity Factor	10	10	3	3	1	1
ED	0.25	1.378082192	1.378082192	1.378082192	1.378082192	1.378082192
AT	70	70	70	70	70	70
FAH	0.85	0.85	0.72	0.72	0.73	0.73
Risk for Each Age Group	3.46022E-07	5.75914E-06	1.15603E-06	1.00028E-06	1.52013E-07	1.31593E-07
Risk per million Exposed	0.346021594	5.759139665	1.15602996	1.000281441	0.152012693	0.131593078
Cancer Risk Per Million 9-years	7.26					
Cancer Risk Per Million 30-years	7.26					
Cancer Risk Per Million 70-years	7.24					

ATTACHMENT D

AERMOD – NOX LST

```
1                     AERMOD PRIME - (DATED  18081)

                    AERMODPrMSPx VERSION
              (C) COPYRIGHT 1998-2017, Trinity Consultants

 Run Began on  5/07/2019 at 12:56:41

** BREEZE AERMOD
** Trinity Consultants
** VERSION  8.1

CO STARTING
CO TITLEONE  Latitude NOX 1HR LST
CO MODELOPT  DFAULT  CONC  NODRYDPLT  NOWETDPLT
CO RUNORNOT  RUN
CO AVERTIME  1
CO POLLUTID  PM10
CO FINISHED

SO STARTING
SO ELEVUNIT  METERS
SO LOCATION  JUVEM000  AREAPOLY  451194.7  3743326.2  0
** SRCDESCR  Area Source
SO SRCPARAM  JUVEM000  6.08E-08  3  12  1
SO AREAVERT  JUVEM000  451194.7 3743326.2  451286 3743218.4  451430.7 3743063.6  451550 3742958.3
SO AREAVERT  JUVEM000  451603.3 3742907.5  452369.7 3743256.5  452379.8 3743272.9  452313.9 3743333.9
SO AREAVERT  JUVEM000  451958.6 3743342.7  451558.8 3743328.8  451558.8 3743328.8  451194.7 3743326.2
SO SRCGROUP  ALL
SO FINISHED

RE STARTING
RE ELEVUNIT  METERS
RE GRIDCART RLPS4001 STA
RE GRIDCART RLPS4001 XYINC  450567.8  21  121.5  3744266.3  21  -119.3
RE GRIDCART RLPS4001 ELEV  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  3  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  4  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  5  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  6  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  7  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  8  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  9  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  10  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  11  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  12  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  13  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  14  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  15  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  16  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  17  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  18  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  19  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  20  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  21  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  3  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  4  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  5  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  6  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  7  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  8  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  9  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  10  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  11  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  12  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  13  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  14  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
```

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RE GRIDCART RLPS4001 HILL  15  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  16  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  17  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  18  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  19  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  20  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  21  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 END
RE DISCCART  451808.8  3743414  0  0
** SENSITIV
** RCPDESCR  R1
RE DISCCART  451611.1  3743386.1  0  0
** SENSITIV
** RCPDESCR  R2
RE DISCCART  451395.1  3743364.6  0  0
** SENSITIV
** RCPDESCR  R3
RE DISCCART  451274.7  3743360.3  0  0
** SENSITIV
** RCPDESCR  R4
RE DISCCART  451170.5  3743172.2  0  0
** SENSITIV
** RCPDESCR  R5
RE DISCCART  451376.8  3742977.7  0  0
** SENSITIV
** RCPDESCR  R6
** BOUNDARY  25M
RE DISCCART  452418.6  3743245.4  0  0
RE DISCCART  452373.0  3743225.0  0  0
RE DISCCART  452327.3  3743204.5  0  0
RE DISCCART  452281.7  3743184.1  0  0
RE DISCCART  452236.1  3743163.7  0  0
RE DISCCART  452190.4  3743143.3  0  0
RE DISCCART  452144.8  3743122.8  0  0
RE DISCCART  452099.1  3743102.4  0  0
RE DISCCART  452053.5  3743082.0  0  0
RE DISCCART  452007.9  3743061.5  0  0
RE DISCCART  451962.2  3743041.1  0  0
RE DISCCART  451916.6  3743020.7  0  0
RE DISCCART  451871.0  3743000.2  0  0
RE DISCCART  451825.3  3742979.8  0  0
RE DISCCART  451779.7  3742959.4  0  0
RE DISCCART  451734.1  3742939.0  0  0
RE DISCCART  451688.4  3742918.5  0  0
RE DISCCART  451642.8  3742898.1  0  0
RE DISCCART  451597.2  3742877.7  0  0
RE DISCCART  451594.1  3742876.3  0  0
RE DISCCART  451559.4  3742907.5  0  0
RE DISCCART  451522.3  3742941.0  0  0
RE DISCCART  451485.1  3742974.4  0  0
RE DISCCART  451447.9  3743007.8  0  0
RE DISCCART  451411.2  3743040.9  0  0
RE DISCCART  451410.8  3743041.3  0  0
RE DISCCART  451378.1  3743079.1  0  0
RE DISCCART  451345.3  3743116.9  0  0
RE DISCCART  451312.6  3743154.7  0  0
RE DISCCART  451279.8  3743192.5  0  0
RE DISCCART  451247.1  3743230.3  0  0
RE DISCCART  451214.3  3743268.0  0  0
RE DISCCART  451181.6  3743305.8  0  0
RE DISCCART  451148.8  3743343.6  0  0
RE DISCCART  451140.3  3743353.4  0  0
RE DISCCART  451177.3  3743353.8  0  0
RE DISCCART  451227.3  3743354.4  0  0
RE DISCCART  451277.3  3743354.9  0  0
RE DISCCART  451327.3  3743355.5  0  0
RE DISCCART  451377.3  3743356.0  0  0
RE DISCCART  451427.3  3743356.6  0  0
RE DISCCART  451477.3  3743357.1  0  0
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RE DISCCART  451527.3  3743357.7  0  0
RE DISCCART  451577.3  3743358.2  0  0
RE DISCCART  451594.1  3743358.4  0  0
RE DISCCART  451627.3  3743358.1  0  0
RE DISCCART  451677.3  3743357.7  0  0
RE DISCCART  451727.3  3743357.2  0  0
RE DISCCART  451777.3  3743356.8  0  0
RE DISCCART  451827.3  3743356.3  0  0
RE DISCCART  451877.3  3743355.9  0  0
RE DISCCART  451927.3  3743355.4  0  0
RE DISCCART  451977.3  3743355.0  0  0
RE DISCCART  452027.3  3743354.5  0  0
RE DISCCART  452077.3  3743354.1  0  0
RE DISCCART  452127.3  3743353.6  0  0
RE DISCCART  452177.3  3743353.2  0  0
RE DISCCART  452227.3  3743352.7  0  0
RE DISCCART  452277.3  3743352.3  0  0
RE DISCCART  452327.3  3743351.8  0  0
RE DISCCART  452328.8  3743351.8  0  0
RE DISCCART  452360.1  3743314.8  0  0
RE DISCCART  452392.3  3743276.6  0  0
** BOUNDARY  50M
RE DISCCART  452466.8  3743248.7  0  0
RE DISCCART  452421.4  3743227.8  0  0
RE DISCCART  452375.9  3743207.0  0  0
RE DISCCART  452330.5  3743186.1  0  0
RE DISCCART  452285.0  3743165.3  0  0
RE DISCCART  452239.6  3743144.4  0  0
RE DISCCART  452194.1  3743123.6  0  0
RE DISCCART  452148.7  3743102.7  0  0
RE DISCCART  452103.3  3743081.9  0  0
RE DISCCART  452057.8  3743061.0  0  0
RE DISCCART  452012.4  3743040.2  0  0
RE DISCCART  451966.9  3743019.3  0  0
RE DISCCART  451921.5  3742998.4  0  0
RE DISCCART  451876.0  3742977.6  0  0
RE DISCCART  451830.6  3742956.7  0  0
RE DISCCART  451785.2  3742935.9  0  0
RE DISCCART  451739.7  3742915.0  0  0
RE DISCCART  451694.3  3742894.2  0  0
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RE DISCCART  451186.3  3743254.9  0  0
RE DISCCART  451153.4  3743292.6  0  0
RE DISCCART  451120.5  3743330.3  0  0
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RE DISCCART  451111.1  3743380.2  0  0
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RE DISCCART  451361.1  3743381.4  0  0
RE DISCCART  451411.1  3743381.7  0  0
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RE DISCCART  451511.1  3743382.2  0  0
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RE DISCCART  451711.1  3743383.2  0  0
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RE DISCCART  451542.5  3742766.6  0  0
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** BOUNDARY  200M
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** BOUNDARY  500M
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RE DISCCART  453217.4  3743121.7  0  0
RE FINISHED

ME STARTING
ME SURFFILE  "C:\Users\XEONRT\AMAZON~1\LDN\19-05L~1\AERMOD\LAKEEL~1\ELSI8.SFC"
** SURFFILE  "C:\Users\XEONRT\AMAZON~1\LDN\19-05L~1\AERMOD\LAKEEL~1\ELSI8.SFC"
ME PROFFILE  "C:\Users\XEONRT\AMAZON~1\LDN\19-05L~1\AERMOD\LAKEEL~1\ELSI8.PFL"
** PROFFILE  "C:\Users\XEONRT\AMAZON~1\LDN\19-05L~1\AERMOD\LAKEEL~1\ELSI8.PFL"
ME SURFDATA  0 2008
ME UAIRDATA  3190 2008
ME SITEDATA  00099999 2008
ME PROFBASE  0  METERS
```

```
ME STARTEND  2012  1  1  1  2012  12  31  24
ME FINISHED

OU STARTING
OU RECTABLE  1  FIRST
OU FILEFORM  FIX
OU PLOTFILE  1  ALL  FIRST  ALL`1`FIRST.plt  10000
OU FINISHED

** **************************************************************************
** It is recommended that the user not edit any data below this line
** **************************************************************************


** AMPTYPE
** AMPDATUM  -1
** AMPZONE  -1
** AMPHEMISPHERE

** PROJECTIONWKT
PROJCS["UTM_6326_Zone11",GEOGCS["WGS_84",DATUM["World_Geodetic_System_1984",SPHEROID["WGS_1984",6378137,298.2572235
63],TOWGS84[0,0,0,0,0,0,0]],PRIMEM["Greenwich",0],UNIT["Degree",0.0174532925199433]],PROJECTION["Universal_Transver
se_Mercator"],PARAMETER["Zone",11],UNIT["Meter",1,AUTHORITY["EPSG","9001"]]]
** PROJECTION  UTM
** DATUM  WGE
** UNITS  METER
** ZONE  11
** HEMISPHERE  N
** ORIGINLON  0
** ORIGINLAT  0
** PARALLEL1  0
** PARALLEL2  0
** AZIMUTH  0
** SCALEFACT  0
** FALSEEAST  0
** FALSENORTH  0

** POSTFMT  UNFORM
** TEMPLATE UserDefined
** AERMODEXE  AERMOD_BREEZE_18081_64.EXE
** AERMAPEXE  AERMAP_EPA_18081_64.EXE


 **********************************
 *** SETUP Finishes Successfully ***
 **********************************

↟ *** AERMOD - VERSION  18081 ***   ***  Latitude NOX 1HR LST                                                  ***
     05/07/19
 *** AERMET - VERSION  14134 ***   ***                                                                       ***
   12:56:41

   PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL

                                          ***     MODEL SETUP OPTIONS SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - -

 **Model Is Setup For Calculation of Average CONCentration Values.

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses RURAL Dispersion Only.
```

 **Model Uses Regulatory DEFAULT Options:
        1. Stack-tip Downwash.
        2. Model Accounts for ELEVated Terrain Effects.
        3. Use Calms Processing Routine.
        4. Use Missing Data Processing Routine.
        5. No Exponential Decay.

 **Other Options Specified:
        TEMP_Sub - Meteorological data includes TEMP substitutions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of: PM10

 **Model Calculates 1 Short Term Average(s) of: 1-HR

 **This Run Includes: 1 Source(s);   1 Source Group(s); and   888 Receptor(s)

               with: 0 POINT(s), including
                          0 POINTCAP(s) and   0 POINTHOR(s)
                and: 0 VOLUME source(s)
                and: 1 AREA type source(s)
                and: 0 LINE source(s)
                and: 0 OPENPIT source(s)
                and: 0 BUOYANT LINE source(s) with   0 line(s)

 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date: 14134

 **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)

 **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) =   0.00 ; 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

 *** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL

                                          *** AREAPOLY SOURCE DATA ***

              NUMBER EMISSION RATE   LOCATION OF AREA BASE   RELEASE NUMBER   INIT.   URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC   X   Y   ELEV.   HEIGHT OF VERTS.   SZ   SOURCE SCALAR VARY
     ID   CATS.   /METER**2)   (METERS) (METERS) (METERS) (METERS)   (METERS)   BY
 -
- - - - - -

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
ALL	JUVEM000 ,

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: RLPS4001 ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

450567.8, 450689.3, 450810.8, 450932.3, 451053.8, 451175.3, 451296.8, 451418.3, 451539.8, 451661.3,
451782.8, 451904.3, 452025.8, 452147.3, 452268.8, 452390.3, 452511.8, 452633.3, 452754.8, 452876.3,
452997.8,

*** Y-COORDINATES OF GRID ***
(METERS)

3744266.3, 3744147.0, 3744027.7, 3743908.4, 3743789.1, 3743669.8, 3743550.5, 3743431.2, 3743311.9, 3743192.6,
3743073.3, 3742954.0, 3742834.7, 3742715.4, 3742596.1, 3742476.8, 3742357.5, 3742238.2, 3742118.9, 3741999.6,
3741880.3,

*** NETWORK ID: RLPS4001 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 450567.80	450689.30	450810.80	450932.30	451053.80	451175.30	451296.80	451418.30	451539.80
3741880.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3741999.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742118.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742238.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742357.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

0.00 0.00
3742476.80 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00
3742596.10 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00
3742715.40 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00
3742834.70 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00
3742954.00 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00
3743073.30 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00
3743192.60 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00
3743311.90 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00
3743431.20 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00
3743550.50 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00
3743669.80 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00
3743789.10 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00
3743908.40 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00
3744027.70 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00
3744147.00 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00
3744266.30 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00

*** NETWORK ID: RLPS4001 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)						
	451661.30	451782.80	451904.30	452025.80	452147.30	452268.80	452390.30
452511.80	452633.30						
3741880.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00						
3741999.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00						
3742118.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00						
3742238.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00						
3742357.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00						
3742476.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00						
3742596.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00						
3742715.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00						
3742834.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00						

```
  3742954.00 |          0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3743073.30 |          0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3743192.60 |          0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3743311.90 |          0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3743431.20 |          0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3743550.50 |          0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3743669.80 |          0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3743789.10 |          0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3743908.40 |          0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3744027.70 |          0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3744147.00 |          0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3744266.30 |          0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
 *** AERMOD - VERSION  18081 ***   ***  Latitude NOX 1HR LST                                          ***
     05/07/19
 *** AERMET - VERSION  14134 ***   ***                                                               ***
   12:56:41

   PAGE   7
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL

                              *** NETWORK ID: RLPS4001 ;  NETWORK TYPE: GRIDCART ***

                                        * ELEVATION HEIGHTS IN METERS *

    Y-COORD  |                                          X-COORD (METERS)
    (METERS) |     452754.80    452876.30    452997.80
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - -

  3741880.30 |          0.00         0.00         0.00
  3741999.60 |          0.00         0.00         0.00
  3742118.90 |          0.00         0.00         0.00
  3742238.20 |          0.00         0.00         0.00
  3742357.50 |          0.00         0.00         0.00
  3742476.80 |          0.00         0.00         0.00
  3742596.10 |          0.00         0.00         0.00
  3742715.40 |          0.00         0.00         0.00
  3742834.70 |          0.00         0.00         0.00
  3742954.00 |          0.00         0.00         0.00
  3743073.30 |          0.00         0.00         0.00
  3743192.60 |          0.00         0.00         0.00
  3743311.90 |          0.00         0.00         0.00
  3743431.20 |          0.00         0.00         0.00
  3743550.50 |          0.00         0.00         0.00
  3743669.80 |          0.00         0.00         0.00
  3743789.10 |          0.00         0.00         0.00
  3743908.40 |          0.00         0.00         0.00
  3744027.70 |          0.00         0.00         0.00
  3744147.00 |          0.00         0.00         0.00
  3744266.30 |          0.00         0.00         0.00
 *** AERMOD - VERSION  18081 ***   ***  Latitude NOX 1HR LST                                          ***
     05/07/19
 *** AERMET - VERSION  14134 ***   ***                                                               ***
   12:56:41

   PAGE   8
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL
```

*** NETWORK ID: RLPS4001 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 450567.80	450689.30	450810.80	450932.30	451053.80	451175.30	451296.80	451418.30	451539.80
3741880.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3741999.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742118.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742238.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742357.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742476.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742596.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742715.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742834.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742954.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3743073.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3743192.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3743311.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3743431.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3743550.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3743669.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3743789.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3743908.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3744027.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3744147.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3744266.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL

*** NETWORK ID: RLPS4001 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 451661.30	451782.80	451904.30	452025.80	452147.30	452268.80	452390.30	452511.80	452633.30

```
- - - - - - - - -

  3741880.30 |         0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3741999.60 |         0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3742118.90 |         0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3742238.20 |         0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3742357.50 |         0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3742476.80 |         0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3742596.10 |         0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3742715.40 |         0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3742834.70 |         0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3742954.00 |         0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3743073.30 |         0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3743192.60 |         0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3743311.90 |         0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3743431.20 |         0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3743550.50 |         0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3743669.80 |         0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3743789.10 |         0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3743908.40 |         0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3744027.70 |         0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3744147.00 |         0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3744266.30 |         0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
♠ *** AERMOD - VERSION  18081 ***   ***  Latitude NOX 1HR LST                                                ***
     05/07/19
 *** AERMET - VERSION  14134 ***   ***                                                                      ***
   12:56:41

   PAGE  10
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL

                                *** NETWORK ID: RLPS4001 ;  NETWORK TYPE: GRIDCART ***

                                          * HILL HEIGHT SCALES IN METERS *

    Y-COORD  |                                          X-COORD (METERS)
    (METERS) |     452754.80    452876.30    452997.80
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - -

  3741880.30 |         0.00         0.00         0.00
  3741999.60 |         0.00         0.00         0.00
  3742118.90 |         0.00         0.00         0.00
  3742238.20 |         0.00         0.00         0.00
  3742357.50 |         0.00         0.00         0.00
  3742476.80 |         0.00         0.00         0.00
  3742596.10 |         0.00         0.00         0.00
  3742715.40 |         0.00         0.00         0.00
```

3742834.70	0.00	0.00	0.00
3742954.00	0.00	0.00	0.00
3743073.30	0.00	0.00	0.00
3743192.60	0.00	0.00	0.00
3743311.90	0.00	0.00	0.00
3743431.20	0.00	0.00	0.00
3743550.50	0.00	0.00	0.00
3743669.80	0.00	0.00	0.00
3743789.10	0.00	0.00	0.00
3743908.40	0.00	0.00	0.00
3744027.70	0.00	0.00	0.00
3744147.00	0.00	0.00	0.00
3744266.30	0.00	0.00	0.00

*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(452418.6, 3743245.4, 0.0, 0.0, 0.0); (452373.0, 3743225.0, 0.0, 0.0, 0.0);
(452327.3, 3743204.5, 0.0, 0.0, 0.0); (452281.7, 3743184.1, 0.0, 0.0, 0.0);
(452236.1, 3743163.7, 0.0, 0.0, 0.0); (452190.4, 3743143.3, 0.0, 0.0, 0.0);
(452144.8, 3743122.8, 0.0, 0.0, 0.0); (452099.1, 3743102.4, 0.0, 0.0, 0.0);
(452053.5, 3743082.0, 0.0, 0.0, 0.0); (452007.9, 3743061.5, 0.0, 0.0, 0.0);
(451962.2, 3743041.1, 0.0, 0.0, 0.0); (451916.6, 3743020.7, 0.0, 0.0, 0.0);
(451871.0, 3743000.2, 0.0, 0.0, 0.0); (451825.3, 3742979.8, 0.0, 0.0, 0.0);
(451779.7, 3742959.4, 0.0, 0.0, 0.0); (451734.1, 3742939.0, 0.0, 0.0, 0.0);
(451688.4, 3742918.5, 0.0, 0.0, 0.0); (451642.8, 3742898.1, 0.0, 0.0, 0.0);
(451597.2, 3742877.7, 0.0, 0.0, 0.0); (451594.1, 3742876.3, 0.0, 0.0, 0.0);
(451559.4, 3742907.5, 0.0, 0.0, 0.0); (451522.3, 3742941.0, 0.0, 0.0, 0.0);
(451485.1, 3742974.4, 0.0, 0.0, 0.0); (451447.9, 3743007.8, 0.0, 0.0, 0.0);
(451411.2, 3743040.9, 0.0, 0.0, 0.0); (451410.8, 3743041.3, 0.0, 0.0, 0.0);
(451378.1, 3743079.1, 0.0, 0.0, 0.0); (451345.3, 3743116.9, 0.0, 0.0, 0.0);
(451312.6, 3743154.7, 0.0, 0.0, 0.0); (451279.8, 3743192.5, 0.0, 0.0, 0.0);
(451247.1, 3743230.3, 0.0, 0.0, 0.0); (451214.3, 3743268.0, 0.0, 0.0, 0.0);
(451181.6, 3743305.8, 0.0, 0.0, 0.0); (451148.8, 3743343.6, 0.0, 0.0, 0.0);
(451140.3, 3743353.4, 0.0, 0.0, 0.0); (451177.3, 3743353.8, 0.0, 0.0, 0.0);
(451227.3, 3743354.4, 0.0, 0.0, 0.0); (451277.3, 3743354.9, 0.0, 0.0, 0.0);
(451327.3, 3743355.5, 0.0, 0.0, 0.0); (451377.3, 3743356.0, 0.0, 0.0, 0.0);
(451427.3, 3743356.6, 0.0, 0.0, 0.0); (451477.3, 3743357.1, 0.0, 0.0, 0.0);
(451527.3, 3743357.7, 0.0, 0.0, 0.0); (451577.3, 3743358.2, 0.0, 0.0, 0.0);

(451594.1, 3743358.4, 0.0, 0.0, 0.0); (451627.3, 3743358.1, 0.0, 0.0,
0.0);
(451677.3, 3743357.7, 0.0, 0.0, 0.0); (451727.3, 3743357.2, 0.0, 0.0,
0.0);
(451777.3, 3743356.8, 0.0, 0.0, 0.0); (451827.3, 3743356.3, 0.0, 0.0,
0.0);
(451877.3, 3743355.9, 0.0, 0.0, 0.0); (451927.3, 3743355.4, 0.0, 0.0,
0.0);
(451977.3, 3743355.0, 0.0, 0.0, 0.0); (452027.3, 3743354.5, 0.0, 0.0,
0.0);
(452077.3, 3743354.1, 0.0, 0.0, 0.0); (452127.3, 3743353.6, 0.0, 0.0,
0.0);
(452177.3, 3743353.2, 0.0, 0.0, 0.0); (452227.3, 3743352.7, 0.0, 0.0,
0.0);
(452277.3, 3743352.3, 0.0, 0.0, 0.0); (452327.3, 3743351.8, 0.0, 0.0,
0.0);
(452328.8, 3743351.8, 0.0, 0.0, 0.0); (452360.1, 3743314.8, 0.0, 0.0,
0.0);
(452392.3, 3743276.6, 0.0, 0.0, 0.0); (452466.8, 3743248.7, 0.0, 0.0,
0.0);
(452421.4, 3743227.8, 0.0, 0.0, 0.0); (452375.9, 3743207.0, 0.0, 0.0,
0.0);
(452330.5, 3743186.1, 0.0, 0.0, 0.0); (452285.0, 3743165.3, 0.0, 0.0,
0.0);
(452239.6, 3743144.4, 0.0, 0.0, 0.0); (452194.1, 3743123.6, 0.0, 0.0,
0.0);
(452148.7, 3743102.7, 0.0, 0.0, 0.0); (452103.3, 3743081.9, 0.0, 0.0,
0.0);
(452057.8, 3743061.0, 0.0, 0.0, 0.0); (452012.4, 3743040.2, 0.0, 0.0,
0.0);
(451966.9, 3743019.3, 0.0, 0.0, 0.0); (451921.5, 3742998.4, 0.0, 0.0,
0.0);
(451876.0, 3742977.6, 0.0, 0.0, 0.0); (451830.6, 3742956.7, 0.0, 0.0,
0.0);
(451785.2, 3742935.9, 0.0, 0.0, 0.0); (451739.7, 3742915.0, 0.0, 0.0,
0.0);
(451694.3, 3742894.2, 0.0, 0.0, 0.0); (451648.8, 3742873.3, 0.0, 0.0,
0.0);
(451603.4, 3742852.5, 0.0, 0.0, 0.0); (451575.8, 3742839.8, 0.0, 0.0,
0.0);
(451561.8, 3742853.6, 0.0, 0.0, 0.0); (451526.1, 3742888.6, 0.0, 0.0,
0.0);
(451490.5, 3742923.7, 0.0, 0.0, 0.0); (451454.8, 3742958.7, 0.0, 0.0,
0.0);
(451419.1, 3742993.7, 0.0, 0.0, 0.0); (451386.3, 3743026.0, 0.0, 0.0,
0.0);

*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(451383.7, 3743029.0, 0.0, 0.0, 0.0); (451350.8, 3743066.7, 0.0, 0.0,
0.0);
(451317.9, 3743104.3, 0.0, 0.0, 0.0); (451285.0, 3743142.0, 0.0, 0.0,
0.0);
(451252.1, 3743179.6, 0.0, 0.0, 0.0); (451219.2, 3743217.3, 0.0, 0.0,
0.0);
(451186.3, 3743254.9, 0.0, 0.0, 0.0); (451153.4, 3743292.6, 0.0, 0.0,
0.0);
(451120.5, 3743330.3, 0.0, 0.0, 0.0); (451087.7, 3743367.9, 0.0, 0.0,
0.0);
(451077.1, 3743380.0, 0.0, 0.0, 0.0); (451111.1, 3743380.2, 0.0, 0.0,

0.0);
(451161.1, 3743380.4,	0.0,	0.0,	0.0);	(451211.1, 3743380.7,	0.0,	0.0,
0.0);
(451261.1, 3743380.9,	0.0,	0.0,	0.0);	(451311.1, 3743381.2,	0.0,	0.0,
0.0);
(451361.1, 3743381.4,	0.0,	0.0,	0.0);	(451411.1, 3743381.7,	0.0,	0.0,
0.0);
(451461.1, 3743381.9,	0.0,	0.0,	0.0);	(451511.1, 3743382.2,	0.0,	0.0,
0.0);
(451561.1, 3743382.5,	0.0,	0.0,	0.0);	(451611.1, 3743382.7,	0.0,	0.0,
0.0);
(451661.1, 3743383.0,	0.0,	0.0,	0.0);	(451711.1, 3743383.2,	0.0,	0.0,
0.0);
(451748.7, 3743383.4,	0.0,	0.0,	0.0);	(451761.1, 3743383.3,	0.0,	0.0,
0.0);
(451811.0, 3743382.9,	0.0,	0.0,	0.0);	(451861.0, 3743382.4,	0.0,	0.0,
0.0);
(451911.0, 3743382.0,	0.0,	0.0,	0.0);	(451961.0, 3743381.6,	0.0,	0.0,
0.0);
(452011.0, 3743381.1,	0.0,	0.0,	0.0);	(452061.0, 3743380.7,	0.0,	0.0,
0.0);
(452111.0, 3743380.3,	0.0,	0.0,	0.0);	(452161.0, 3743379.9,	0.0,	0.0,
0.0);
(452211.0, 3743379.4,	0.0,	0.0,	0.0);	(452261.0, 3743379.0,	0.0,	0.0,
0.0);
(452311.0, 3743378.6,	0.0,	0.0,	0.0);	(452330.5, 3743378.4,	0.0,	0.0,
0.0);
(452352.6, 3743357.4,	0.0,	0.0,	0.0);	(452388.8, 3743322.9,	0.0,	0.0,
0.0);
(452425.1, 3743288.4,	0.0,	0.0,	0.0);	(452461.3, 3743254.0,	0.0,	0.0,
0.0);
(452548.2, 3743228.8,	0.0,	0.0,	0.0);	(452525.5, 3743218.4,	0.0,	0.0,
0.0);
(452502.8, 3743207.9,	0.0,	0.0,	0.0);	(452480.1, 3743197.5,	0.0,	0.0,
0.0);
(452457.3, 3743187.0,	0.0,	0.0,	0.0);	(452434.6, 3743176.6,	0.0,	0.0,
0.0);
(452411.9, 3743166.2,	0.0,	0.0,	0.0);	(452389.2, 3743155.7,	0.0,	0.0,
0.0);
(452366.5, 3743145.3,	0.0,	0.0,	0.0);	(452343.8, 3743134.8,	0.0,	0.0,
0.0);
(452321.0, 3743124.4,	0.0,	0.0,	0.0);	(452298.3, 3743114.0,	0.0,	0.0,
0.0);
(452275.6, 3743103.5,	0.0,	0.0,	0.0);	(452252.9, 3743093.1,	0.0,	0.0,
0.0);
(452230.2, 3743082.6,	0.0,	0.0,	0.0);	(452207.5, 3743072.2,	0.0,	0.0,
0.0);
(452184.7, 3743061.8,	0.0,	0.0,	0.0);	(452162.0, 3743051.3,	0.0,	0.0,
0.0);
(452139.3, 3743040.9,	0.0,	0.0,	0.0);	(452116.6, 3743030.4,	0.0,	0.0,
0.0);
(452093.9, 3743020.0,	0.0,	0.0,	0.0);	(452071.2, 3743009.6,	0.0,	0.0,
0.0);
(452048.5, 3742999.1,	0.0,	0.0,	0.0);	(452025.7, 3742988.7,	0.0,	0.0,
0.0);
(452003.0, 3742978.2,	0.0,	0.0,	0.0);	(451980.3, 3742967.8,	0.0,	0.0,
0.0);
(451957.6, 3742957.4,	0.0,	0.0,	0.0);	(451934.9, 3742946.9,	0.0,	0.0,
0.0);
(451912.2, 3742936.5,	0.0,	0.0,	0.0);	(451889.4, 3742926.0,	0.0,	0.0,
0.0);
(451866.7, 3742915.6,	0.0,	0.0,	0.0);	(451844.0, 3742905.2,	0.0,	0.0,
0.0);
(451821.3, 3742894.7,	0.0,	0.0,	0.0);	(451798.6, 3742884.3,	0.0,	0.0,
0.0);
(451775.9, 3742873.8,	0.0,	0.0,	0.0);	(451753.1, 3742863.4,	0.0,	0.0,
0.0);
(451730.4, 3742853.0,	0.0,	0.0,	0.0);	(451707.7, 3742842.5,	0.0,	0.0,
0.0);

(451685.0, 3742832.1, 0.0, 0.0, 0.0); (451662.3, 3742821.6, 0.0, 0.0, 0.0);
(451639.6, 3742811.2, 0.0, 0.0, 0.0); (451616.8, 3742800.8, 0.0, 0.0, 0.0);
(451594.1, 3742790.3, 0.0, 0.0, 0.0); (451571.4, 3742779.9, 0.0, 0.0, 0.0);
(451548.7, 3742769.5, 0.0, 0.0, 0.0); (451542.5, 3742766.6, 0.0, 0.0, 0.0);
(451529.3, 3742779.1, 0.0, 0.0, 0.0); (451511.1, 3742796.2, 0.0, 0.0, 0.0);

*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(451492.9, 3742813.4, 0.0, 0.0, 0.0); (451474.7, 3742830.6, 0.0, 0.0, 0.0);
(451456.6, 3742847.7, 0.0, 0.0, 0.0); (451438.4, 3742864.9, 0.0, 0.0, 0.0);
(451420.2, 3742882.0, 0.0, 0.0, 0.0); (451402.0, 3742899.2, 0.0, 0.0, 0.0);
(451383.9, 3742916.4, 0.0, 0.0, 0.0); (451365.7, 3742933.5, 0.0, 0.0, 0.0);
(451347.5, 3742950.7, 0.0, 0.0, 0.0); (451329.3, 3742967.9, 0.0, 0.0, 0.0);
(451311.1, 3742985.0, 0.0, 0.0, 0.0); (451306.5, 3742989.4, 0.0, 0.0, 0.0);
(451294.8, 3743003.9, 0.0, 0.0, 0.0); (451279.0, 3743023.3, 0.0, 0.0, 0.0);
(451263.3, 3743042.7, 0.0, 0.0, 0.0); (451247.5, 3743062.1, 0.0, 0.0, 0.0);
(451231.8, 3743081.5, 0.0, 0.0, 0.0); (451216.0, 3743100.9, 0.0, 0.0, 0.0);
(451200.3, 3743120.3, 0.0, 0.0, 0.0); (451184.5, 3743139.8, 0.0, 0.0, 0.0);
(451168.8, 3743159.2, 0.0, 0.0, 0.0); (451153.0, 3743178.6, 0.0, 0.0, 0.0);
(451137.3, 3743198.0, 0.0, 0.0, 0.0); (451121.5, 3743217.4, 0.0, 0.0, 0.0);
(451105.8, 3743236.8, 0.0, 0.0, 0.0); (451090.0, 3743256.2, 0.0, 0.0, 0.0);
(451074.3, 3743275.7, 0.0, 0.0, 0.0); (451058.5, 3743295.1, 0.0, 0.0, 0.0);
(451042.8, 3743314.5, 0.0, 0.0, 0.0); (451027.0, 3743333.9, 0.0, 0.0, 0.0);
(451011.3, 3743353.3, 0.0, 0.0, 0.0); (450995.5, 3743372.7, 0.0, 0.0, 0.0);
(450979.8, 3743392.2, 0.0, 0.0, 0.0); (450964.0, 3743411.6, 0.0, 0.0, 0.0);
(450948.3, 3743431.0, 0.0, 0.0, 0.0); (450942.4, 3743438.2, 0.0, 0.0, 0.0);
(450958.1, 3743438.1, 0.0, 0.0, 0.0); (450983.1, 3743437.9, 0.0, 0.0, 0.0);
(451008.1, 3743437.7, 0.0, 0.0, 0.0); (451033.1, 3743437.5, 0.0, 0.0, 0.0);
(451058.1, 3743437.3, 0.0, 0.0, 0.0); (451083.1, 3743437.1, 0.0, 0.0, 0.0);
(451108.1, 3743436.8, 0.0, 0.0, 0.0); (451133.1, 3743436.6, 0.0, 0.0, 0.0);
(451158.1, 3743436.4, 0.0, 0.0, 0.0); (451183.1, 3743436.2, 0.0, 0.0, 0.0);
(451208.1, 3743436.0, 0.0, 0.0, 0.0); (451233.1, 3743435.8, 0.0, 0.0,

0.0);
(451258.1, 3743435.6, 0.0, 0.0, 0.0); (451283.1, 3743435.4, 0.0, 0.0,
0.0);
(451308.1, 3743435.2, 0.0, 0.0, 0.0); (451333.1, 3743435.0, 0.0, 0.0,
0.0);
(451358.1, 3743434.8, 0.0, 0.0, 0.0); (451383.1, 3743434.6, 0.0, 0.0,
0.0);
(451408.1, 3743434.4, 0.0, 0.0, 0.0); (451433.1, 3743434.2, 0.0, 0.0,
0.0);
(451458.1, 3743434.0, 0.0, 0.0, 0.0); (451483.1, 3743433.8, 0.0, 0.0,
0.0);
(451508.1, 3743433.6, 0.0, 0.0, 0.0); (451533.1, 3743433.4, 0.0, 0.0,
0.0);
(451558.1, 3743433.2, 0.0, 0.0, 0.0); (451583.1, 3743433.0, 0.0, 0.0,
0.0);
(451608.1, 3743432.8, 0.0, 0.0, 0.0); (451633.1, 3743432.6, 0.0, 0.0,
0.0);
(451658.1, 3743432.4, 0.0, 0.0, 0.0); (451683.1, 3743432.1, 0.0, 0.0,
0.0);
(451708.1, 3743431.9, 0.0, 0.0, 0.0); (451733.1, 3743431.7, 0.0, 0.0,
0.0);
(451758.1, 3743431.5, 0.0, 0.0, 0.0); (451783.1, 3743431.3, 0.0, 0.0,
0.0);
(451808.1, 3743431.1, 0.0, 0.0, 0.0); (451833.1, 3743430.9, 0.0, 0.0,
0.0);
(451858.1, 3743430.7, 0.0, 0.0, 0.0); (451883.1, 3743430.5, 0.0, 0.0,
0.0);
(451908.1, 3743430.3, 0.0, 0.0, 0.0); (451933.1, 3743430.1, 0.0, 0.0,
0.0);
(451958.1, 3743429.9, 0.0, 0.0, 0.0); (451983.1, 3743429.7, 0.0, 0.0,
0.0);
(452008.1, 3743429.5, 0.0, 0.0, 0.0); (452033.1, 3743429.3, 0.0, 0.0,
0.0);
(452058.1, 3743429.1, 0.0, 0.0, 0.0); (452083.1, 3743428.9, 0.0, 0.0,
0.0);
(452108.1, 3743428.7, 0.0, 0.0, 0.0); (452133.1, 3743428.5, 0.0, 0.0,
0.0);
(452158.1, 3743428.3, 0.0, 0.0, 0.0); (452183.1, 3743428.1, 0.0, 0.0,
0.0);
(452208.1, 3743427.9, 0.0, 0.0, 0.0); (452233.1, 3743427.7, 0.0, 0.0,
0.0);
(452258.1, 3743427.5, 0.0, 0.0, 0.0); (452283.1, 3743427.2, 0.0, 0.0,
0.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(452308.1, 3743427.0, 0.0, 0.0, 0.0); (452333.1, 3743426.8, 0.0, 0.0,
0.0);
(452358.1, 3743426.6, 0.0, 0.0, 0.0); (452362.1, 3743426.6, 0.0, 0.0,
0.0);
(452360.4, 3743423.3, 0.0, 0.0, 0.0); (452372.4, 3743410.9, 0.0, 0.0,
0.0);
(452389.7, 3743392.9, 0.0, 0.0, 0.0); (452407.1, 3743374.9, 0.0, 0.0,
0.0);
(452424.5, 3743356.9, 0.0, 0.0, 0.0); (452441.8, 3743339.0, 0.0, 0.0,
0.0);
(452459.2, 3743321.0, 0.0, 0.0, 0.0); (452476.6, 3743303.0, 0.0, 0.0,
0.0);
(452493.9, 3743285.0, 0.0, 0.0, 0.0); (452511.3, 3743267.0, 0.0, 0.0,
0.0);

(452528.7, 3743249.0, 0.0, 0.0, 0.0); (452546.0, 3743231.0, 0.0, 0.0,
0.0);
(452719.5, 3743202.2, 0.0, 0.0, 0.0); (452628.7, 3743160.4, 0.0, 0.0,
0.0);
(452537.8, 3743118.6, 0.0, 0.0, 0.0); (452447.0, 3743076.8, 0.0, 0.0,
0.0);
(452356.1, 3743035.0, 0.0, 0.0, 0.0); (452265.3, 3742993.2, 0.0, 0.0,
0.0);
(452174.4, 3742951.5, 0.0, 0.0, 0.0); (452083.6, 3742909.7, 0.0, 0.0,
0.0);
(451992.7, 3742867.9, 0.0, 0.0, 0.0); (451901.9, 3742826.1, 0.0, 0.0,
0.0);
(451811.0, 3742784.3, 0.0, 0.0, 0.0); (451720.2, 3742742.5, 0.0, 0.0,
0.0);
(451629.3, 3742700.7, 0.0, 0.0, 0.0); (451538.5, 3742658.9, 0.0, 0.0,
0.0);
(451494.3, 3742638.6, 0.0, 0.0, 0.0); (451460.5, 3742677.3, 0.0, 0.0,
0.0);
(451394.8, 3742752.7, 0.0, 0.0, 0.0); (451329.1, 3742828.1, 0.0, 0.0,
0.0);
(451263.4, 3742903.5, 0.0, 0.0, 0.0); (451197.7, 3742978.9, 0.0, 0.0,
0.0);
(451132.0, 3743054.2, 0.0, 0.0, 0.0); (451066.3, 3743129.6, 0.0, 0.0,
0.0);
(451000.6, 3743205.0, 0.0, 0.0, 0.0); (450934.9, 3743280.4, 0.0, 0.0,
0.0);
(450869.2, 3743355.8, 0.0, 0.0, 0.0); (450803.5, 3743431.2, 0.0, 0.0,
0.0);
(450737.8, 3743506.5, 0.0, 0.0, 0.0); (450703.1, 3743546.3, 0.0, 0.0,
0.0);
(450750.4, 3743545.8, 0.0, 0.0, 0.0); (450850.4, 3743544.8, 0.0, 0.0,
0.0);
(450950.3, 3743543.9, 0.0, 0.0, 0.0); (451050.3, 3743542.9, 0.0, 0.0,
0.0);
(451150.3, 3743541.9, 0.0, 0.0, 0.0); (451250.3, 3743540.9, 0.0, 0.0,
0.0);
(451350.3, 3743539.9, 0.0, 0.0, 0.0); (451450.3, 3743538.9, 0.0, 0.0,
0.0);
(451550.3, 3743537.9, 0.0, 0.0, 0.0); (451650.3, 3743537.0, 0.0, 0.0,
0.0);
(451750.3, 3743536.0, 0.0, 0.0, 0.0); (451850.3, 3743535.0, 0.0, 0.0,
0.0);
(451950.3, 3743534.0, 0.0, 0.0, 0.0); (452050.3, 3743533.0, 0.0, 0.0,
0.0);
(452150.3, 3743532.0, 0.0, 0.0, 0.0); (452250.3, 3743531.0, 0.0, 0.0,
0.0);
(452350.3, 3743530.0, 0.0, 0.0, 0.0); (452395.3, 3743529.6, 0.0, 0.0,
0.0);
(452433.5, 3743491.4, 0.0, 0.0, 0.0); (452434.2, 3743490.7, 0.0, 0.0,
0.0);
(452504.5, 3743419.6, 0.0, 0.0, 0.0); (452574.8, 3743348.5, 0.0, 0.0,
0.0);
(452645.1, 3743277.4, 0.0, 0.0, 0.0); (452715.4, 3743206.3, 0.0, 0.0,
0.0);
(453238.9, 3743099.6, 0.0, 0.0, 0.0); (453170.5, 3743068.7, 0.0, 0.0,
0.0);
(453102.2, 3743037.9, 0.0, 0.0, 0.0); (453033.8, 3743007.0, 0.0, 0.0,
0.0);
(452965.5, 3742976.2, 0.0, 0.0, 0.0); (452897.1, 3742945.3, 0.0, 0.0,
0.0);
(452828.7, 3742914.5, 0.0, 0.0, 0.0); (452760.4, 3742883.6, 0.0, 0.0,
0.0);
(452692.0, 3742852.8, 0.0, 0.0, 0.0); (452623.6, 3742821.9, 0.0, 0.0,
0.0);
(452555.3, 3742791.1, 0.0, 0.0, 0.0); (452486.9, 3742760.2, 0.0, 0.0,
0.0);
(452418.6, 3742729.4, 0.0, 0.0, 0.0); (452350.2, 3742698.5, 0.0, 0.0,
0.0);
(452281.8, 3742667.7, 0.0, 0.0, 0.0); (452213.5, 3742636.8, 0.0, 0.0,

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(451735.0, 3742420.9, 0.0, 0.0, 0.0); (451666.6, 3742390.0, 0.0, 0.0,
0.0);
(451598.2, 3742359.2, 0.0, 0.0, 0.0); (451529.9, 3742328.3, 0.0, 0.0,
0.0);
(451461.5, 3742297.5, 0.0, 0.0, 0.0); (451393.1, 3742266.6, 0.0, 0.0,
0.0);
(451360.5, 3742251.9, 0.0, 0.0, 0.0); (451336.9, 3742283.2, 0.0, 0.0,
0.0);
(451291.8, 3742343.1, 0.0, 0.0, 0.0); (451246.7, 3742403.0, 0.0, 0.0,
0.0);
(451201.6, 3742462.9, 0.0, 0.0, 0.0); (451156.5, 3742522.8, 0.0, 0.0,
0.0);
(451111.3, 3742582.7, 0.0, 0.0, 0.0); (451066.2, 3742642.7, 0.0, 0.0,
0.0);
(451021.1, 3742702.6, 0.0, 0.0, 0.0); (450976.0, 3742762.5, 0.0, 0.0,
0.0);
(450930.9, 3742822.4, 0.0, 0.0, 0.0); (450885.7, 3742882.3, 0.0, 0.0,
0.0);
(450840.6, 3742942.2, 0.0, 0.0, 0.0); (450795.5, 3743002.1, 0.0, 0.0,
0.0);
(450750.4, 3743062.0, 0.0, 0.0, 0.0); (450705.3, 3743121.9, 0.0, 0.0,
0.0);
(450660.1, 3743181.8, 0.0, 0.0, 0.0); (450615.0, 3743241.8, 0.0, 0.0,
0.0);
(450569.9, 3743301.7, 0.0, 0.0, 0.0); (450524.8, 3743361.6, 0.0, 0.0,
0.0);
(450479.7, 3743421.5, 0.0, 0.0, 0.0); (450434.5, 3743481.4, 0.0, 0.0,
0.0);
(450389.4, 3743541.3, 0.0, 0.0, 0.0); (450344.3, 3743601.2, 0.0, 0.0,
0.0);
(450299.2, 3743661.1, 0.0, 0.0, 0.0); (450254.1, 3743721.0, 0.0, 0.0,
0.0);
(450208.9, 3743781.0, 0.0, 0.0, 0.0); (450163.8, 3743840.9, 0.0, 0.0,
0.0);
(450153.7, 3743854.3, 0.0, 0.0, 0.0); (450211.9, 3743853.4, 0.0, 0.0,
0.0);
(450286.9, 3743852.3, 0.0, 0.0, 0.0); (450361.9, 3743851.1, 0.0, 0.0,
0.0);
(450436.8, 3743850.0, 0.0, 0.0, 0.0); (450511.8, 3743848.8, 0.0, 0.0,
0.0);
(450586.8, 3743847.7, 0.0, 0.0, 0.0); (450661.8, 3743846.5, 0.0, 0.0,
0.0);
(450736.8, 3743845.4, 0.0, 0.0, 0.0); (450811.8, 3743844.2, 0.0, 0.0,
0.0);
(450886.8, 3743843.1, 0.0, 0.0, 0.0); (450961.8, 3743841.9, 0.0, 0.0,
0.0);
(451036.8, 3743840.8, 0.0, 0.0, 0.0); (451111.8, 3743839.7, 0.0, 0.0,
0.0);
(451186.8, 3743838.5, 0.0, 0.0, 0.0); (451261.7, 3743837.4, 0.0, 0.0,
0.0);

```
( 451336.7, 3743836.2,      0.0,      0.0,      0.0);       ( 451411.7, 3743835.1,      0.0,      0.0,
0.0);
( 451486.7, 3743833.9,      0.0,      0.0,      0.0);       ( 451561.7, 3743832.8,      0.0,      0.0,
0.0);
( 451636.7, 3743831.6,      0.0,      0.0,      0.0);       ( 451711.7, 3743830.5,      0.0,      0.0,
0.0);
( 451786.7, 3743829.3,      0.0,      0.0,      0.0);       ( 451861.7, 3743828.2,      0.0,      0.0,
0.0);
( 451936.7, 3743827.0,      0.0,      0.0,      0.0);       ( 452011.7, 3743825.9,      0.0,      0.0,
0.0);
( 452086.6, 3743824.7,      0.0,      0.0,      0.0);       ( 452161.6, 3743823.6,      0.0,      0.0,
0.0);
( 452236.6, 3743822.5,      0.0,      0.0,      0.0);       ( 452311.6, 3743821.3,      0.0,      0.0,
0.0);
( 452386.6, 3743820.2,      0.0,      0.0,      0.0);       ( 452461.6, 3743819.0,      0.0,      0.0,
0.0);
( 452536.6, 3743817.9,      0.0,      0.0,      0.0);       ( 452540.8, 3743817.8,      0.0,      0.0,
0.0);
( 452590.1, 3743767.0,      0.0,      0.0,      0.0);       ( 452642.4, 3743713.3,      0.0,      0.0,
0.0);
( 452694.7, 3743659.5,      0.0,      0.0,      0.0);       ( 452747.0, 3743605.7,      0.0,      0.0,
0.0);
( 452799.2, 3743551.9,      0.0,      0.0,      0.0);       ( 452851.5, 3743498.1,      0.0,      0.0,
0.0);
( 452903.8, 3743444.4,      0.0,      0.0,      0.0);       ( 452956.1, 3743390.6,      0.0,      0.0,
0.0);
( 453008.3, 3743336.8,      0.0,      0.0,      0.0);       ( 453060.6, 3743283.0,      0.0,      0.0,
0.0);
( 453112.9, 3743229.2,      0.0,      0.0,      0.0);       ( 453165.2, 3743175.5,      0.0,      0.0,
0.0);
( 453217.4, 3743121.7,      0.0,      0.0,      0.0);
```



```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL

                          *** 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

                 METEOROLOGICAL DATA PROCESSED BETWEEN START DATE: 2012   1  1  1
                                                    AND END DATE: 2012  12 31 24

              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,
 *** AERMOD - VERSION  18081 ***   ***  Latitude NOX 1HR LST                                                   ***
     05/07/19
 *** AERMET - VERSION  14134 ***   ***                                                                         ***
   12:56:41

   PAGE  17
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL

                                       *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

   Surface file:   C:\Users\XEONRT\AMAZON~1\LDN\19-05L~1\AERMOD\LAKEEL~1\ELSI8.SFC                    Met Version:
14134
   Profile file:   C:\Users\XEONRT\AMAZON~1\LDN\19-05L~1\AERMOD\LAKEEL~1\ELSI8.PFL
   Surface format: FREE

   Profile format: FREE

   Surface station no.:        0                  Upper air station no.:     3190
                  Name: UNKNOWN                                Name: UNKNOWN
                  Year:   2008                                 Year:   2008

 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
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - -
 08 01 01   1 01 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23   1.00   1.00  999.00  999.   -9.0  284.2
 5.5
 08 01 01   1 02 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23   1.00   1.00  999.00  999.   -9.0  283.1
 5.5
 08 01 01   1 03 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23   1.00   1.00  999.00  999.   -9.0  283.1
 5.5
 08 01 01   1 04 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23   1.00   1.00  999.00  999.   -9.0  283.8
 5.5
 08 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23   1.00   1.00  999.00  999.   -9.0  283.8
 5.5
 08 01 01   1 06 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23   1.00   1.00  999.00  999.   -9.0  283.8
 5.5
 08 01 01   1 07 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23   1.00   1.00  999.00  999.   -9.0  283.1
 5.5
 08 01 01   1 08 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23   1.00   0.54  999.00  999.   -9.0  283.8
 5.5
 08 01 01   1 09   27.2 -9.000 -9.000 -9.000   60. -999. -99999.0  0.23   1.00   0.33  999.00  999.   -9.0  285.9
 5.5
 08 01 01   1 10   74.6 -9.000 -9.000 -9.000  157. -999. -99999.0  0.23   1.00   0.25  999.00  999.   -9.0  288.1
 5.5
 08 01 01   1 11  107.4 -9.000 -9.000 -9.000  375. -999. -99999.0  0.23   1.00   0.23  999.00  999.   -9.0  289.9
 5.5
 08 01 01   1 12  122.7 -9.000 -9.000 -9.000  578. -999. -99999.0  0.23   1.00   0.22  999.00  999.   -9.0  289.9
 5.5
 08 01 01   1 13  121.3 -9.000 -9.000 -9.000  714. -999. -99999.0  0.23   1.00   0.22  999.00  999.   -9.0  291.4
 5.5
 08 01 01   1 14  102.1 -9.000 -9.000 -9.000  763. -999. -99999.0  0.23   1.00   0.23  999.00  999.   -9.0  292.0
 5.5
 08 01 01   1 15   65.8 -9.000 -9.000 -9.000  792. -999. -99999.0  0.23   1.00   0.27  999.00  999.   -9.0  291.4
 5.5
 08 01 01   1 16   16.0 -9.000 -9.000 -9.000  798. -999. -99999.0  0.23   1.00   0.36  999.00  999.   -9.0  290.4
 5.5
 08 01 01   1 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23   1.00   0.63  999.00  999.   -9.0  288.8
 5.5
 08 01 01   1 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23   1.00   1.00  999.00  999.   -9.0  287.5
 5.5
 08 01 01   1 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23   1.00   1.00  999.00  999.   -9.0  286.4
 5.5
 08 01 01   1 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23   1.00   1.00  999.00  999.   -9.0  285.4
 5.5
 08 01 01   1 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23   1.00   1.00  999.00  999.   -9.0  284.2
```

```
 5.5
 08 01 01   1 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23   1.00   1.00  999.00  999.   -9.0  283.1
 5.5
 08 01 01   1 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23   1.00   1.00  999.00  999.   -9.0  283.1
 5.5
 08 01 01   1 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23   1.00   1.00  999.00  999.   -9.0  282.5
 5.5


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 08 01 01 01    5.5 0 -999.  -99.00   284.3   99.0  -99.00  -99.00
 08 01 01 01    9.1 1 -999.  -99.00  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
 *** AERMOD - VERSION  18081 ***   ***  Latitude NOX 1HR LST                                                  ***
     05/07/19
 *** AERMET - VERSION  14134 ***   ***                                                                       ***
   12:56:41

   PAGE  18
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  ALL
 ***
                                INCLUDING SOURCE(S):     JUVEM000    ,

                                 *** NETWORK ID: RLPS4001 ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF PM10     IN MICROGRAMS/M**3                          **

  Y-COORD  |                                              X-COORD (METERS)
  (METERS) |       450567.80              450689.30              450810.80              450932.30
451053.80
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - -

 3741880.3 |      5.32395 (12010920)      5.40526 (12101703)      5.42709 (12103103)      5.45719 (12103105)
5.44460 (12122121)
 3741999.6 |      5.73408 (12091706)      5.79194 (12010920)      5.87162 (12101703)      5.89592 (12103103)
5.89137 (12051705)
 3742118.9 |      6.16918 (12103004)      6.28551 (12091706)      6.34637 (12010920)      6.42098 (12120821)
6.41821 (12101402)
 3742238.2 |      6.67104 (12031001)      6.83961 (12112004)      6.96889 (12102906)      7.02203 (12112622)
7.07010 (12030603)
 3742357.5 |      7.20154 (12012019)      7.45988 (12110624)      7.66252 (12011102)      7.80655 (12102906)
7.86064 (12112622)
 3742476.8 |      7.81302 (12011905)      8.14705 (12100705)      8.44535 (12012019)      8.71500 (12123020)
8.86482 (12103004)
 3742596.1 |      8.45900 (12052302)      8.89788 (12112401)      9.31984 (12011905)      9.75091 (12100705)
10.12543 (12110624)
 3742715.4 |      9.08027 (12022207)      9.67432 (12010607)     10.26538 (12052302)     10.90223 (12112401)
11.50263 (12011905)
 3742834.7 |      9.68643 (12120924)     10.47442 (12030502)     11.26383 (12122122)     12.04492 (12022207)
12.93219 (12010607)
 3742954.0 |     10.38864 (12010101)     11.28749 (12010101)     12.24266 (12052701)     13.34139 (12120924)
14.43693 (12030502)
 3743073.3 |     10.95042 (12103005)     12.05405 (12103005)     13.20888 (12103005)     14.48248 (12110724)
16.21178 (12110724)
 3743192.6 |     11.23358 (12100724)     12.53639 (12100724)     14.07103 (12100724)     15.87691 (12100724)
18.01471 (12100724)
 3743311.9 |     11.33656 (12102421)     12.61596 (12102422)     14.22677 (12102422)     16.22523 (12102422)
18.94243 (12022302)
 3743431.2 |     10.71312 (12101603)     11.69663 (12100424)     12.88434 (12040423)     14.00526 (12061002)
14.76864 (12122204)
 3743550.5 |      9.76950 (12061002)     10.35344 (12060902)     11.00565 (12122204)     11.44384 (12060603)
11.54492 (12101705)
 3743669.8 |      8.74778 (12122204)      9.14799 (12112121)      9.46153 (12011004)      9.63500 (12101705)
9.60856 (12041423)
```

3743789.1	7.85745 (12062604)	8.10041 (12121022)	8.27367 (12101705)	8.34487 (12062502)	8.30842 (12101606)
3743908.4	7.10000 (12063004)	7.25471 (12101705)	7.34048 (12062502)	7.38759 (12052924)	7.36159 (12042824)
3744027.7	6.46538 (12062504)	6.56436 (12030505)	6.63869 (12051124)	6.66007 (12100624)	6.64620 (12030522)
3744147.0	5.93703 (12030505)	6.01419 (12040405)	6.05653 (12060301)	6.07751 (12042824)	6.07425 (12121120)
3744266.3	5.48531 (12040405)	5.54740 (12070302)	5.58177 (12070103)	5.60255 (12030522)	5.60224 (12062324)

↑ *** AERMOD - VERSION 18081 *** *** Latitude NOX 1HR LST *** 05/07/19
*** AERMET - VERSION 14134 *** *** *** 12:56:41

PAGE 19
*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): JUVEM000 ,

*** NETWORK ID: RLPS4001 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 451175.30	451296.80	451418.30	451539.80	451661.30
3741880.3	5.42407 (12013001)	5.37497 (12110701)	5.35676 (12031002)	5.32198 (12031005)	5.28278 (12010122)
3741999.6	5.84579 (12112501)	5.81731 (12040324)	5.76413 (12042904)	5.71825 (12020322)	5.67972 (12010122)
3742118.9	6.38642 (12122121)	6.32071 (12100703)	6.25295 (12032104)	6.18806 (12020322)	6.14290 (12010122)
3742238.2	7.03166 (12103105)	6.94389 (12112501)	6.84398 (12110701)	6.75251 (12072904)	6.69157 (12010122)
3742357.5	7.84470 (12030603)	7.75092 (12090203)	7.59374 (12102804)	7.44743 (12112506)	7.35340 (12010122)
3742476.8	8.92345 (12112622)	8.82020 (12102724)	8.58295 (12112501)	8.33162 (12031002)	8.20173 (12011024)
3742596.1	10.35156 (12103004)	10.32701 (12112622)	10.00082 (12062405)	9.51397 (12122105)	9.29033 (12101602)
3742715.4	12.08273 (12012019)	12.47395 (12123020)	12.27555 (12112622)	11.28096 (12112501)	10.76374 (12102905)
3742834.7	13.98789 (12010506)	14.99937 (12011905)	15.84521 (12012019)	15.05036 (12091706)	13.07312 (12050901)
3742954.0	15.94537 (12030502)	17.45785 (12022207)	18.90006 (12052302)	19.14026 (12112401)	16.89518 (12012019)
3743073.3	18.05088 (12110724)	20.13679 (12010101)	20.70856 (12052701)	18.80985 (12120924)	16.90767 (12022207)
3743192.6	20.51617 (12041705)	22.01618 (12041705)	20.35389 (12110322)	18.44545 (12110322)	16.50299 (12103005)
3743311.9	21.83911 (12102901)	20.78542 (12102901)	19.28196 (12022302)	17.68988 (12022302)	15.89903 (12022302)
3743431.2	14.34804 (12063004)	13.36424 (12030505)	12.41178 (12070202)	11.80314 (12032102)	11.77326 (12062523)
3743550.5	11.24967 (12040405)	10.84039 (12060724)	10.47723 (12120921)	10.26230 (12062101)	10.29675 (12062523)
3743669.8	9.43684 (12070103)	9.23438 (12100823)	9.05938 (12041624)	8.97627 (12062101)	9.00649 (12120902)
3743789.1	8.21210 (12011501)	8.10174 (12101323)	8.01592 (12042722)	7.97784 (12011021)	8.00503 (12122203)
3743908.4	7.31202 (12100823)	7.25139 (12120921)	7.18121 (12042722)	7.18098 (12011021)	7.21785 (12122203)
3744027.7	6.61664 (12062324)	6.58292 (12020405)	6.55375 (12032102)	6.54311 (12030923)	

					6.58005 (12122203)
3744147.0	6.05979 (12060802)	6.04512 (12041624)	6.03701 (12032102)	6.03190 (12030923)	6.05736 (12020806)
3744266.3	5.59779 (12050522)	5.59488 (12042722)	5.57951 (12032102)	5.59868 (12030923)	5.61737 (12020806)

*** AERMOD - VERSION 18081 *** *** Latitude NOX 1HR LST *** 05/07/19
*** AERMET - VERSION 14134 *** *** *** 12:56:41

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*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): JUVEM000 ,

*** NETWORK ID: RLPS4001 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 451782.80	451904.30	452025.80	452147.30	452268.80
3741880.3	5.26107 (12120703)	5.23474 (12042105)	5.21673 (12101605)	5.18202 (12092504)	5.13930 (12062503)
3741999.6	5.65414 (12120703)	5.63425 (12101902)	5.60702 (12052204)	5.56791 (12050903)	5.51329 (12041923)
3742118.9	6.11497 (12010123)	6.08247 (12053005)	6.06355 (12092504)	6.02050 (12050901)	5.95107 (12072805)
3742238.2	6.66539 (12102905)	6.65337 (12020407)	6.62246 (12103023)	6.55672 (12010221)	6.46056 (12040502)
3742357.5	7.34695 (12042105)	7.34377 (12122118)	7.30675 (12041923)	7.21211 (12040502)	7.07586 (12122005)
3742476.8	8.21917 (12053005)	8.23663 (12062503)	8.16330 (12110723)	8.00747 (12122005)	7.81388 (12063003)
3742596.1	9.39976 (12092504)	9.40879 (12120620)	9.24354 (12122005)	8.99209 (12020924)	8.70677 (12110220)
3742715.4	11.10063 (12010221)	10.95748 (12122005)	10.60426 (12010420)	10.21931 (12101403)	9.82545 (12062903)
3742834.7	13.37712 (12102904)	12.95545 (12060702)	12.41407 (12110324)	11.84822 (12110101)	11.29527 (12010624)
3742954.0	15.52827 (12022224)	15.65052 (12110101)	15.01430 (12022222)	14.19036 (12111403)	13.32895 (12061124)
3743073.3	14.76959 (12052302)	16.91369 (12041802)	18.56615 (12120624)	17.79842 (12120624)	16.39032 (12051001)
3743192.6	14.29319 (12110724)	16.33995 (12030924)	18.50995 (12010107)	20.52135 (12112702)	21.74738 (12112702)
3743311.9	13.85512 (12022302)	15.88922 (12121519)	18.07438 (12010620)	20.10054 (12010620)	21.91425 (12010620)
3743431.2	12.30170 (12032203)	13.20143 (12122124)	14.33981 (12112504)	15.33524 (12020907)	16.11326 (12040923)
3743550.5	10.52773 (12032623)	10.85343 (12012422)	11.46901 (12122124)	11.99133 (12031422)	12.40529 (12101104)
3743669.8	9.10601 (12032623)	9.36613 (12032203)	9.59432 (12120804)	9.96154 (12051702)	10.22778 (12031422)
3743789.1	8.09231 (12040422)	8.22157 (12010307)	8.31686 (12012422)	8.59660 (12120804)	8.74647 (12051702)
3743908.4	7.27354 (12033023)	7.33529 (12032623)	7.47947 (12012422)	7.50026 (12102920)	7.68229 (12122124)
3744027.7	6.62522 (12021022)	6.68908 (12032623)	6.75769 (12010307)	6.75193 (12012422)	6.92459 (12120804)
3744147.0	6.08987 (12110605)	6.09256 (12032623)	6.17475 (12010307)	6.25825 (12012422)	6.18368 (12102920)
3744266.3	5.64115 (12110605)	5.66517 (12040422)	5.65265 (12032623)	5.76753 (12032203)	5.69527 (12061222)

*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): JUVEM000 ,

*** NETWORK ID: RLPS4001 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 452390.30	452511.80	452633.30	452754.80	452876.30
3741880.3	5.08269 (12092602)	5.01590 (12110723)	4.94128 (12110721)	4.85921 (12122005)	4.76939 (12010622)
3741999.6	5.44449 (12120620)	5.35894 (12110721)	5.27069 (12122005)	5.17154 (12010622)	5.05946 (12010420)
3742118.9	5.86195 (12012920)	5.75800 (12122005)	5.64563 (12010622)	5.52591 (12010420)	5.39281 (12060702)
3742238.2	6.34721 (12122005)	6.21427 (12010622)	6.06832 (12010420)	5.92630 (12060702)	5.77663 (12101403)
3742357.5	6.91985 (12063003)	6.73066 (12123103)	6.57067 (12110220)	6.39147 (12022224)	6.20684 (12062903)
3742476.8	7.60076 (12123103)	7.37130 (12101403)	7.14948 (12110324)	6.92784 (12020922)	6.70590 (12110101)
3742596.1	8.42104 (12022224)	8.10764 (12020922)	7.84239 (12110101)	7.56214 (12111901)	7.28556 (12022222)
3742715.4	9.43335 (12110101)	9.05293 (12111901)	8.67127 (12022222)	8.31229 (12111403)	7.97256 (12011001)
3742834.7	10.74470 (12020404)	10.23056 (12011001)	9.71633 (12061124)	9.25719 (12041802)	8.71914 (12101504)
3742954.0	12.52002 (12041802)	11.80237 (12101504)	11.10605 (12120624)	10.35325 (12120624)	9.72023 (12092102)
3743073.3	15.22086 (12051001)	14.06547 (12051001)	12.99635 (12050601)	12.02847 (12012219)	11.10335 (12012219)
3743192.6	19.80211 (12010107)	17.64245 (12010107)	15.71797 (12112702)	14.00369 (12112702)	12.52432 (12030824)
3743311.9	23.08570 (12010620)	20.70457 (12010620)	17.48424 (12101201)	15.05053 (12010321)	13.28208 (12010321)
3743431.2	16.68235 (12051003)	16.64400 (12011105)	15.71026 (12112001)	14.13591 (12011706)	12.78080 (12121519)
3743550.5	12.70786 (12031402)	12.88013 (12040923)	12.79936 (12051003)	12.20223 (12092522)	11.59977 (12040222)
3743669.8	10.41881 (12100505)	10.56165 (12020907)	10.49465 (12040923)	10.45122 (12011503)	10.17656 (12051003)
3743789.1	8.91798 (12031422)	9.02593 (12100505)	9.05291 (12020907)	9.02906 (12031402)	8.92409 (12040923)
3743908.4	7.83421 (12040722)	7.90453 (12031422)	7.96468 (12100505)	7.89678 (12101104)	7.90360 (12031402)
3744027.7	7.02358 (12122124)	7.08480 (12040722)	7.09152 (12031422)	7.12401 (12100505)	7.07788 (12101104)
3744147.0	6.37094 (12120804)	6.42598 (12051702)	6.44206 (12040722)	6.41983 (12031422)	6.44536 (12071505)
3744266.3	5.79050 (12102920)	5.80542 (12122124)	5.89963 (12051702)	5.88022 (12040722)	5.85124 (12031422)

*** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL ***
    INCLUDING SOURCE(S):   JUVEM000   ,

 *** NETWORK ID: RLPS4001 ; NETWORK TYPE: GRIDCART ***

     ** CONC OF PM10   IN MICROGRAMS/M**3   **

Y-COORD (METERS)	X-COORD (METERS) 452997.80
3741880.3	4.67900 (12020924)
3741999.6	4.96021 (12123103)
3742118.9	5.24843 (12110220)
3742238.2	5.62723 (12110324)
3742357.5	6.02261 (12020922)
3742476.8	6.48532 (12111901)
3742596.1	7.01242 (12020404)
3742715.4	7.61182 (12061124)
3742834.7	8.37853 (12101504)
3742954.0	9.11124 (12051001)
3743073.3	10.26920 (12030924)
3743192.6	11.29352 (12030824)
3743311.9	11.82199 (12010321)
3743431.2	11.55371 (12121519)
3743550.5	10.75042 (12112001)
3743669.8	9.59965 (12092522)
3743789.1	8.68108 (12100702)
3743908.4	7.68036 (12092723)
3744027.7	7.02530 (12051924)
3744147.0	6.40070 (12101104)
3744266.3	5.88235 (12071505)

*** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL ***
    INCLUDING SOURCE(S):   JUVEM000   ,

          *** DISCRETE CARTESIAN RECEPTOR POINTS ***

     ** CONC OF PM10   IN MICROGRAMS/M**3   **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
452418.60	3743245.40	22.20706	(12052105)	452373.00	3743225.00	21.95465	(12012921)
452327.30	3743204.50	21.62414	(12030824)	452281.70	3743184.10	21.23770	(12010107)
452236.10	3743163.70	20.79907	(12053003)	452190.40	3743143.30	20.32291	(12030924)
452144.80	3743122.80	19.84664	(12050601)	452099.10	3743102.40	19.31123	(12051001)
452053.50	3743082.00	18.74717	(12120624)	452007.90	3743061.50	18.26328	(12101504)
451962.20	3743041.10	17.70727	(12041802)	451916.60	3743020.70	17.15285	(12111403)

451871.00 3743000.20 16.59533 (12010624) 451825.30 3742979.80 16.05670 (12011005)
451779.70 3742959.40 15.53606 (12110324) 451734.10 3742939.00 15.03575 (12060702)
451688.40 3742918.50 14.55513 (12010622) 451642.80 3742898.10 14.90230 (12102906)
451597.20 3742877.70 15.56261 (12102906) 451594.10 3742876.30 15.61117 (12102906)
451559.40 3742907.50 18.33267 (12012019) 451522.30 3742941.00 19.20825 (12110604)
451485.10 3742974.40 19.66054 (12052302) 451447.90 3743007.80 20.19435 (12022207)
451411.20 3743040.90 20.54658 (12120924) 451410.80 3743041.30 20.55605 (12120924)
451378.10 3743079.10 21.03155 (12010502) 451345.30 3743116.90 21.37782 (12110724)
451312.60 3743154.70 21.71005 (12103005) 451279.80 3743192.50 22.07872 (12041705)
451247.10 3743230.30 22.02893 (12100724) 451214.30 3743268.00 22.38787 (12060623)
451181.60 3743305.80 22.03211 (12022302) 451148.80 3743343.60 19.78366 (12100424)
451140.30 3743353.40 18.98746 (12040423) 451177.30 3743353.80 18.76135 (12061002)
451227.30 3743354.40 18.21162 (12061002) 451277.30 3743354.90 17.65972 (12061002)
451327.30 3743355.50 17.09211 (12061002) 451377.30 3743356.00 16.52833 (12061002)
451427.30 3743356.60 15.96085 (12061002) 451477.30 3743357.10 15.41876 (12061002)
451527.30 3743357.70 14.89257 (12061002) 451577.30 3743358.20 14.36981 (12061002)
451594.10 3743358.40 14.18805 (12061002) 451627.30 3743358.10 13.86774 (12061002)
451677.30 3743357.70 13.35614 (12061002) 451727.30 3743357.20 12.81358 (12061002)
451777.30 3743356.80 12.67624 (12012422) 451827.30 3743356.30 13.37227 (12011503)
451877.30 3743355.90 14.33398 (12100702) 451927.30 3743355.40 15.28609 (12051003)
451977.30 3743355.00 16.19659 (12051003) 452027.30 3743354.50 17.07284 (12011105)
452077.30 3743354.10 17.84994 (12011105) 452127.30 3743353.60 18.56359 (12011105)
452177.30 3743353.20 19.23457 (12040222) 452227.30 3743352.70 19.87743 (12040222)
452277.30 3743352.30 20.47625 (12102902) 452327.30 3743351.80 21.03246 (12102902)
452328.80 3743351.80 21.04700 (12102902) 452360.10 3743314.80 23.01107 (12010620)
452392.30 3743276.60 23.69076 (12010321) 452466.80 3743248.70 21.13657 (12052105)
452421.40 3743227.80 21.13428 (12012921) 452375.90 3743207.00 20.88985 (12030824)
452330.50 3743186.10 20.58801 (12010107) 452285.00 3743165.30 20.20256 (12053003)
452239.60 3743144.40 19.84947 (12030924) 452194.10 3743123.60 19.46443 (12050601)
452148.70 3743102.70 19.03490 (12051001) 452103.30 3743081.90 18.48707 (12092102)
452057.80 3743061.00 18.14838 (12101504) 452012.40 3743040.20 17.67418 (12041802)
451966.90 3743019.30 17.19957 (12011001) 451921.50 3742998.40 16.70150 (12020404)
451876.00 3742977.60 16.24919 (12040403) 451830.60 3742956.70 15.76846 (12020922)
451785.20 3742935.90 15.33198 (12101403) 451739.70 3742915.00 14.89828 (12010420)

*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): JUVEM000 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
451694.30	3742894.20	14.45939	(12122005)	451648.80	3742873.30	13.79309	(12072805)
451603.40	3742852.50	13.94182	(12101703)	451575.80	3742839.80	14.26276	(12101703)
451561.80	3742853.60	15.46361	(12091706)	451526.10	3742888.60	17.96160	(12012019)
451490.50	3742923.70	18.87050	(12110604)	451454.80	3742958.70	19.38450	(12052302)
451419.10	3742993.70	19.86733	(12022207)	451386.30	3743026.00	20.22372	(12030502)
451383.70	3743029.00	20.23553	(12030502)	451350.80	3743066.70	20.72147	(12010502)
451317.90	3743104.30	21.06222	(12110724)	451285.00	3743142.00	21.38004	(12103005)
451252.10	3743179.60	21.66670	(12110322)	451219.20	3743217.30	21.80671	(12100724)
451186.30	3743254.90	21.90794	(12060623)	451153.40	3743292.60	21.62857	(12102422)
451120.50	3743330.30	20.17074	(12101603)	451087.70	3743367.90	17.69340	(12040423)
451077.10	3743380.00	17.04386	(12061002)	451111.10	3743380.20	17.14257	(12060902)
451161.10	3743380.40	16.92634	(12060902)	451211.10	3743380.70	16.42991	(12060902)
451261.10	3743380.90	15.92933	(12060902)	451311.10	3743381.20	15.41698	(12060902)
451361.10	3743381.40	14.91081	(12060902)	451411.10	3743381.70	14.40626	(12060902)
451461.10	3743381.90	13.92664	(12060902)	451511.10	3743382.20	13.45758	(12060902)
451561.10	3743382.50	12.98514	(12060902)	451611.10	3743382.70	12.49690	(12060902)
451661.10	3743383.00	12.09167	(12110605)	451711.10	3743383.20	12.30065	(12032623)
451748.70	3743383.40	12.54532	(12010307)	451761.10	3743383.30	12.64254	(12032203)
451811.00	3743382.90	13.05357	(12120804)	451861.00	3743382.40	13.66647	(12122124)
451911.00	3743382.00	14.31104	(12031422)	451961.00	3743381.60	15.02436	(12100505)
452011.00	3743381.10	15.76007	(12020907)	452061.00	3743380.70	16.42094	(12031402)
452111.00	3743380.30	17.04702	(12040923)	452161.00	3743379.90	17.61915	(12100702)
452211.00	3743379.40	18.15638	(12051003)	452261.00	3743379.00	18.64805	(12051003)
452311.00	3743378.60	18.99943	(12051003)	452330.50	3743378.40	19.18758	(12011105)
452352.60	3743357.40	20.85692	(12102902)	452388.80	3743322.90	22.71897	(12121519)

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): JUVEM000 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
452425.10	3743288.40	23.15777	(12101201)	452461.30	3743254.00	21.59553	(12052105)
452548.20	3743228.80	18.36837	(12012921)	452525.50	3743218.40	18.43876	(12030824)
452502.80	3743207.90	18.42681	(12112702)	452480.10	3743197.50	18.40040	(12112702)
452457.30	3743187.00	18.35217	(12010107)	452434.60	3743176.60	18.28854	(12053003)
452411.90	3743166.20	18.20020	(12053003)	452389.20	3743155.70	18.10827	(12030924)
452366.50	3743145.30	18.03554	(12030924)	452343.80	3743134.80	17.88909	(12012219)
452321.00	3743124.40	17.82910	(12012219)	452298.30	3743114.00	17.71629	(12050601)
452275.60	3743103.50	17.59263	(12051001)	452252.90	3743093.10	17.44862	(12051001)
452230.20	3743082.60	17.21586	(12051001)	452207.50	3743072.20	17.06385	(12092102)
452184.70	3743061.80	17.02843	(12120624)	452162.00	3743051.30	16.92768	(12120624)
452139.30	3743040.90	16.77962	(12101504)	452116.60	3743030.40	16.55815	(12101504)
452093.90	3743020.00	16.47279	(12041802)	452071.20	3743009.60	16.29141	(12061124)
452048.50	3742999.10	16.15199	(12061124)	452025.70	3742988.70	15.99868	(12111403)
452003.00	3742978.20	15.82959	(12020404)	451980.30	3742967.80	15.67135	(12022222)
451957.60	3742957.40	15.50455	(12111901)	451934.90	3742946.90	15.33751	(12040403)
451912.20	3742936.50	15.17629	(12011005)	451889.40	3742926.00	14.99289	(12062903)
451866.70	3742915.60	14.84858	(12110324)	451844.00	3742905.20	14.68591	(12101403)
451821.30	3742894.70	14.51903	(12110220)	451798.60	3742884.30	14.34833	(12123103)
451775.90	3742873.80	14.19324	(12020924)	451753.10	3742863.40	14.02317	(12102904)
451730.40	3742853.00	13.83245	(12070704)	451707.70	3742842.50	13.58773	(12040502)
451685.00	3742832.10	13.25010	(12010221)	451662.30	3742821.60	12.76228	(12103023)
451639.60	3742811.20	12.23093	(12053005)	451616.80	3742800.80	11.94898	(12042004)
451594.10	3742790.30	12.10282	(12013001)	451571.40	3742779.90	12.27765	(12011002)
451548.70	3742769.50	12.39995	(12051705)	451542.50	3742766.60	12.42090	(12062405)
451529.30	3742779.10	13.01008	(12103103)	451511.10	3742796.20	13.92150	

(12112622)
451492.90 3742813.40 14.87046 (12102906) 451474.70 3742830.60 15.73023
(12123020)
451456.60 3742847.70 16.40887 (12010523) 451438.40 3742864.90 16.88855
(12100705)
451420.20 3742882.00 17.20461 (12011905) 451402.00 3742899.20 17.48379
(12110604)
451383.90 3742916.40 17.70185 (12010506) 451365.70 3742933.50 17.82901
(12052302)
451347.50 3742950.70 18.06407 (12010607) 451329.30 3742967.90 18.21456
(12022207)
451311.10 3742985.00 18.36621 (12122122) 451306.50 3742989.40 18.39546
(12030502)
451294.80 3743003.90 18.53128 (12030502) 451279.00 3743023.30 18.74542
(12120924)
451263.30 3743042.70 18.93090 (12052701) 451247.50 3743062.10 19.07217
(12010101)
451231.80 3743081.50 19.17622 (12110724) 451216.00 3743100.90 19.32436
(12110724)
451200.30 3743120.30 19.41709 (12103005) 451184.50 3743139.80 19.56214
(12103005)
451168.80 3743159.20 19.61441 (12110322) 451153.00 3743178.60 19.75260
(12110322)
451137.30 3743198.00 19.82061 (12100724) 451121.50 3743217.40 19.72858
(12100724)
451105.80 3743236.80 19.51243 (12060623) 451090.00 3743256.20 19.69407
(12060623)
451074.30 3743275.70 19.46646 (12102421) 451058.50 3743295.10 19.18550
(12102422)
451042.80 3743314.50 18.64663 (12022302) 451027.00 3743333.90 17.94030
(12011406)
451011.30 3743353.30 17.10954 (12101603) 450995.50 3743372.70 16.32797
(12100424)
450979.80 3743392.20 15.52466 (12040423) 450964.00 3743411.60 14.81104
(12061002)
450948.30 3743431.00 14.11184 (12061002) 450942.40 3743438.20 13.82910
(12061002)
450958.10 3743438.10 13.97640 (12060902) 450983.10 3743437.90 14.22011
(12060902)
451008.10 3743437.70 14.35050 (12060902) 451033.10 3743437.50 14.49042
(12122204)
451058.10 3743437.30 14.55695 (12112201) 451083.10 3743437.10 14.57909
(12042902)
451108.10 3743436.80 14.53621 (12060603) 451133.10 3743436.60 14.43059
(12011004)
451158.10 3743436.40 14.28245 (12063004) 451183.10 3743436.20 14.11250
(12040723)
451208.10 3743436.00 13.93100 (12071801) 451233.10 3743435.80 13.74401
(12062504)
451258.10 3743435.60 13.55227 (12041224) 451283.10 3743435.40 13.35579
(12062502)
451308.10 3743435.20 13.16170 (12041423) 451333.10 3743435.00 12.96776
(12052924)
451358.10 3743434.80 12.77774 (12060301) 451383.10 3743434.60 12.59418
(12042824)
451408.10 3743434.40 12.42199 (12030522) 451433.10 3743434.20 12.26199
(12100823)
451458.10 3743434.00 12.11692 (12101323) 451483.10 3743433.80 11.98988
(12050522)
451508.10 3743433.60 11.88244 (12011803) 451533.10 3743433.40 11.78357
(12032102)

*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): JUVEM000 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
451558.10	3743433.20	11.73510	(12062101)	451583.10	3743433.00	11.70493	(12011021)
451608.10	3743432.80	11.70758	(12013003)	451633.10	3743432.60	11.72406	(12020806)
451658.10	3743432.40	11.76045	(12062523)	451683.10	3743432.10	11.83015	(12021022)
451708.10	3743431.90	11.91321	(12040422)	451733.10	3743431.70	12.02610	(12032623)
451758.10	3743431.50	12.14039	(12010307)	451783.10	3743431.30	12.30224	(12032203)
451808.10	3743431.10	12.46572	(12012422)	451833.10	3743430.90	12.55597	(12012422)
451858.10	3743430.70	12.80400	(12120804)	451883.10	3743430.50	13.05610	(12120804)
451908.10	3743430.30	13.26426	(12122124)	451933.10	3743430.10	13.50640	(12051702)
451958.10	3743429.90	13.74164	(12040722)	451983.10	3743429.70	13.97191	(12031422)
452008.10	3743429.50	14.23204	(12031422)	452033.10	3743429.30	14.47639	(12112504)
452058.10	3743429.10	14.70653	(12071505)	452083.10	3743428.90	14.92072	(12101104)
452108.10	3743428.70	15.12358	(12101104)	452133.10	3743428.50	15.32652	(12020907)
452158.10	3743428.30	15.52016	(12051924)	452183.10	3743428.10	15.70289	(12031402)
452208.10	3743427.90	15.84944	(12031402)	452233.10	3743427.70	16.01802	(12040923)
452258.10	3743427.50	16.20776	(12040923)	452283.10	3743427.20	16.36611	(12011503)
452308.10	3743427.00	16.50008	(12011503)	452333.10	3743426.80	16.64725	(12100702)
452358.10	3743426.60	16.76463	(12100702)	452362.10	3743426.60	16.77720	(12100702)
452360.40	3743423.30	16.92079	(12051003)	452372.40	3743410.90	17.61513	(12051003)
452389.70	3743392.90	18.61529	(12011105)	452407.10	3743374.90	19.81732	(12040222)
452424.50	3743356.90	20.70254	(12112001)	452441.80	3743339.00	21.27913	(12121519)
452459.20	3743321.00	21.77756	(12121519)	452476.60	3743303.00	21.72911	(12010620)
452493.90	3743285.00	21.38119	(12010321)	452511.30	3743267.00	20.57713	(12110602)
452528.70	3743249.00	19.45057	(12052105)	452546.00	3743231.00	18.49104	(12012921)
452719.50	3743202.20	14.65089	(12030824)	452628.70	3743160.40	14.95052	(12053003)
452537.80	3743118.60	14.87923	(12012219)	452447.00	3743076.80	14.77558	(12051001)
452356.10	3743035.00	14.47915	(12120624)	452265.30	3742993.20	14.20303	(12041802)
452174.40	3742951.50	13.94773	(12011001)	452083.60	3742909.70	13.58265	(12010624)
451992.70	3742867.90	13.19947	(12062903)	451901.90	3742826.10	12.80023	(12123103)
451811.00	3742784.30	12.32463	(12070704)	451720.20	3742742.50	11.46025	

(12103023)
451629.30 3742700.70 10.53398 (12010122) 451538.50 3742658.90 10.34132
(12040324)
451494.30 3742638.60 10.28345 (12112501) 451460.50 3742677.30 11.17322
(12101402)
451394.80 3742752.70 13.36426 (12103004) 451329.10 3742828.10 15.11258
(12010507)
451263.40 3742903.50 15.93628 (12052302) 451197.70 3742978.90 16.65012
(12030502)
451132.00 3743054.20 17.05677 (12010101) 451066.30 3743129.60 17.23229
(12103005)
451000.60 3743205.00 17.13955 (12100724) 450934.90 3743280.40 16.38806
(12102421)
450869.20 3743355.80 14.72103 (12011406) 450803.50 3743431.20 12.81558
(12040423)
450737.80 3743506.50 11.17566 (12061002) 450703.10 3743546.30 10.48469
(12060902)
450750.40 3743545.80 10.78396 (12060902) 450850.40 3743544.80 11.26610
(12112201)
450950.30 3743543.90 11.61297 (12060603) 451050.30 3743542.90 11.70667
(12071801)
451150.30 3743541.90 11.49887 (12062502) 451250.30 3743540.90 11.16813
(12060301)

*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): JUVEM000 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
451350.30	3743539.90	10.83319	(12121120)	451450.30	3743538.90	10.55957	(12020405)
451550.30	3743537.90	10.41876	(12062101)	451650.30	3743537.00	10.44997	(12120902)
451750.30	3743536.00	10.62485	(12032623)	451850.30	3743535.00	10.97836	(12012422)
451950.30	3743534.00	11.41378	(12120804)	452050.30	3743533.00	11.91114	(12051702)
452150.30	3743532.00	12.39275	(12112504)	452250.30	3743531.00	12.81028	(12101104)
452350.30	3743530.00	13.12978	(12031402)	452395.30	3743529.60	13.18218	(12031402)
452433.50	3743491.40	14.45567	(12011503)	452434.20	3743490.70	14.47801	(12011503)
452504.50	3743419.60	17.18950	(12011105)	452574.80	3743348.50	18.59247	(12121519)
452645.10	3743277.40	17.23888	(12110602)	452715.40	3743206.30	14.79380	(12030824)
453238.90	3743099.60	8.94467	(12053003)	453170.50	3743068.70	9.19185	(12030924)
453102.20	3743037.90	9.35964	(12012219)	453033.80	3743007.00	9.51810	(12050601)
452965.50	3742976.20	9.55803	(12051001)	452897.10	3742945.30	9.54797	(12092102)
452828.70	3742914.50	9.67835	(12120624)	452760.40	3742883.60	9.67103	(12101504)

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       452692.00   3742852.80        9.67345  (12041802)              452623.60   3742821.90        9.64716
(12061124)
       452555.30   3742791.10        9.59517  (12020404)              452486.90   3742760.20        9.54719
(12022222)
       452418.60   3742729.40        9.48167  (12040403)              452350.20   3742698.50        9.40126
(12020922)
       452281.80   3742667.70        9.30864  (12022224)              452213.50   3742636.80        9.20669
(12110220)
       452145.10   3742606.00        9.08601  (12010420)              452076.80   3742575.10        8.94488
(12070705)
       452008.40   3742544.30        8.76772  (12012920)              451940.00   3742513.40        8.54348
(12092602)
       451871.70   3742482.60        8.29032  (12050903)              451803.30   3742451.70        8.02068
(12101605)
       451735.00   3742420.90        7.77347  (12020524)              451666.60   3742390.00        7.56163
(12011024)
       451598.20   3742359.20        7.40880  (12022221)              451529.90   3742328.30        7.27195
(12112506)
       451461.50   3742297.50        7.14866  (12122105)              451393.10   3742266.60        7.03286
(12040324)
       451360.50   3742251.90        6.97629  (12100703)              451336.90   3742283.20        7.18667
(12013001)
       451291.80   3742343.10        7.64635  (12090203)              451246.70   3742403.00        8.17950
(12102724)
       451201.60   3742462.90        8.77384  (12101703)              451156.50   3742522.80        9.43764
(12091706)
       451111.30   3742582.70       10.09242  (12011102)              451066.20   3742642.70       10.69979
(12012019)
       451021.10   3742702.60       11.20051  (12011905)              450976.00   3742762.50       11.62541
(12052302)
       450930.90   3742822.40       11.95496  (12010607)              450885.70   3742882.30       12.22343
(12030502)
       450840.60   3742942.20       12.39636  (12052701)              450795.50   3743002.10       12.45674
(12010101)
       450750.40   3743062.00       12.49798  (12103005)              450705.30   3743121.90       12.44878
(12110322)
       450660.10   3743181.80       12.25391  (12100724)              450615.00   3743241.80       11.72974
(12060623)
       450569.90   3743301.70       11.37479  (12102421)              450524.80   3743361.60       10.75264
(12022302)
       450479.70   3743421.50       10.12004  (12011406)              450434.50   3743481.40        9.36025
(12100424)
       450389.40   3743541.30        8.88780  (12040423)              450344.30   3743601.20        8.27775
(12061002)
       450299.20   3743661.10        7.78241  (12061002)              450254.10   3743721.00        7.27851
(12080922)
       450208.90   3743781.00        6.98143  (12060902)              450163.80   3743840.90        6.53137
(12101701)
       450153.70   3743854.30        6.47019  (12122204)              450211.90   3743853.40        6.67937
(12122204)
       450286.90   3743852.30        6.85823  (12112201)              450361.90   3743851.10        7.02829
(12112121)
       450436.80   3743850.00        7.19628  (12042902)              450511.80   3743848.80        7.35725
(12060603)
 *** AERMOD - VERSION  18081 ***   ***  Latitude NOX 1HR LST                                                ***
     05/07/19
 *** AERMET - VERSION  14134 ***   ***                                                                      ***
   12:56:41

   PAGE  28
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL

                           *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  ALL
 ***
                               INCLUDING SOURCE(S):     JUVEM000    ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                     ** CONC OF PM10     IN MICROGRAMS/M**3                          **
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X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
450586.80	3743847.70	7.49865	(12011004)	450661.80	3743846.50	7.61149	(12063004)
450736.80	3743845.40	7.73883	(12101705)	450811.80	3743844.20	7.82061	(12041224)
450886.80	3743843.10	7.87240	(12062502)	450961.80	3743841.90	7.88453	(12052924)
451036.80	3743840.80	7.87476	(12060301)	451111.80	3743839.70	7.84276	(12042824)
451186.80	3743838.50	7.79935	(12070202)	451261.70	3743837.40	7.75508	(12072601)
451336.70	3743836.20	7.71403	(12050522)	451411.70	3743835.10	7.68424	(12042722)
451486.70	3743833.90	7.65682	(12032102)	451561.70	3743832.80	7.66589	(12030923)
451636.70	3743831.60	7.69128	(12020806)	451711.70	3743830.50	7.71519	(12110605)
451786.70	3743829.30	7.79754	(12040422)	451861.70	3743828.20	7.87313	(12032623)
451936.70	3743827.00	7.96916	(12010307)	452011.70	3743825.90	8.06678	(12012422)
452086.60	3743824.70	8.04179	(12102920)	452161.60	3743823.60	8.30258	(12120804)
452236.60	3743822.50	8.41229	(12122124)	452311.60	3743821.30	8.50161	(12040722)
452386.60	3743820.20	8.59695	(12031422)	452461.60	3743819.00	8.66880	(12112504)
452536.60	3743817.90	8.74233	(12100505)	452540.80	3743817.80	8.74540	(12100505)
452590.10	3743767.00	9.25813	(12020907)	452642.40	3743713.30	9.97124	(12031402)
452694.70	3743659.50	10.71877	(12011503)	452747.00	3743605.70	11.46156	(12051003)
452799.20	3743551.90	12.02964	(12011105)	452851.50	3743498.10	12.39286	(12112001)
452903.80	3743444.40	12.29006	(12121519)	452956.10	3743390.60	12.18737	(12010620)
453008.30	3743336.80	11.58027	(12103120)	453060.60	3743283.00	11.09576	(12052105)
453112.90	3743229.20	10.38846	(12012921)	453165.20	3743175.50	9.78414	(12112702)
453217.40	3743121.70	9.18223	(12053003)				

*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): JUVEM000 ,

*** SENSITIVE DISCRETE RECEPTOR POINTS ***

** CONC OF PM10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
451808.80	3743414.00	12.70265	(12012422)	451611.10	3743386.10	12.32485	(12122204)

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       451395.10   3743364.60       15.67699  (12061002)               451274.70   3743360.30       17.25475
(12061002)
       451170.50   3743172.20       19.98655  (12110322)               451376.80   3742977.70       19.04822
(12022207)
 *** AERMOD - VERSION  18081 ***   ***  Latitude NOX 1HR LST                                                  ***
     05/07/19
 *** AERMET - VERSION  14134 ***   ***                                                                       ***
   12:56:41

   PAGE  30
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL

                                            *** THE SUMMARY OF HIGHEST  1-HR RESULTS ***


                                    ** CONC OF PM10     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      23.69076  ON 12010321: AT (  452392.30,  3743276.60,     0.00,     0.00,
0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
 *** AERMOD - VERSION  18081 ***   ***  Latitude NOX 1HR LST                                                   ***
     05/07/19
 *** AERMET - VERSION  14134 ***   ***                                                                       ***
   12:56:41

   PAGE  31
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            0 Warning Message(s)
 A Total of         1916 Informational Message(s)

 A Total of         8784 Hours Were Processed

 A Total of            3 Calm Hours Identified

 A Total of          468 Missing Hours Identified (  5.33 Percent)


    ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


    ********   WARNING MESSAGES   ********
              ***  NONE  ***


    ***********************************
    *** AERMOD Finishes Successfully ***
    ***********************************
```

ATTACHMENT E

AERMOD – TOTAL PM10 LST

```
1                     AERMOD PRIME - (DATED  18081)

                    AERMODPrMSPx VERSION
              (C) COPYRIGHT 1998-2017, Trinity Consultants

 Run Began on  5/07/2019 at 12:58:34

** BREEZE AERMOD
** Trinity Consultants
** VERSION  8.1

CO STARTING
CO TITLEONE  Latitude PM10 Total Construction Emissions
CO MODELOPT  DFAULT  CONC  NODRYDPLT  NOWETDPLT
CO RUNORNOT  RUN
CO AVERTIME  24
CO POLLUTID  PM10
CO FINISHED

SO STARTING
SO ELEVUNIT  METERS
SO LOCATION  JUVEM000  AREAPOLY  451194.7  3743326.2  0
** SRCDESCR  Area Source
SO SRCPARAM  JUVEM000  2.61E-08  3  12  1
SO AREAVERT  JUVEM000  451194.7 3743326.2  451286 3743218.4  451430.7 3743063.6  451550 3742958.3
SO AREAVERT  JUVEM000  451603.3 3742907.5  452369.7 3743256.5  452379.8 3743272.9  452313.9 3743333.9
SO AREAVERT  JUVEM000  451958.6 3743342.7  451558.8 3743328.8  451558.8 3743328.8  451194.7 3743326.2
SO SRCGROUP  ALL
SO FINISHED

RE STARTING
RE ELEVUNIT  METERS
RE GRIDCART RLPS4001 STA
RE GRIDCART RLPS4001 XYINC  450567.8  21  121.5  3744266.3  21  -119.3
RE GRIDCART RLPS4001 ELEV  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  3  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  4  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  5  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  6  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  7  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  8  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  9  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  10  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  11  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  12  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  13  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  14  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  15  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  16  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  17  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  18  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  19  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  20  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 ELEV  21  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  3  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  4  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  5  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  6  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  7  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  8  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  9  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  10  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  11  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  12  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  13  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  14  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
```

```
RE GRIDCART RLPS4001 HILL  15  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  16  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  17  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  18  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  19  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  20  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 HILL  21  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
RE GRIDCART RLPS4001 END
RE DISCCART  451808.8  3743414  0  0
** SENSITIV
** RCPDESCR  R1
RE DISCCART  451611.1  3743386.1  0  0
** SENSITIV
** RCPDESCR  R2
RE DISCCART  451395.1  3743364.6  0  0
** SENSITIV
** RCPDESCR  R3
RE DISCCART  451274.7  3743360.3  0  0
** SENSITIV
** RCPDESCR  R4
RE DISCCART  451170.5  3743172.2  0  0
** SENSITIV
** RCPDESCR  R5
RE DISCCART  451376.8  3742977.7  0  0
** SENSITIV
** RCPDESCR  R6
** BOUNDARY  25M
RE DISCCART  452418.6  3743245.4  0  0
RE DISCCART  452373.0  3743225.0  0  0
RE DISCCART  452327.3  3743204.5  0  0
RE DISCCART  452281.7  3743184.1  0  0
RE DISCCART  452236.1  3743163.7  0  0
RE DISCCART  452190.4  3743143.3  0  0
RE DISCCART  452144.8  3743122.8  0  0
RE DISCCART  452099.1  3743102.4  0  0
RE DISCCART  452053.5  3743082.0  0  0
RE DISCCART  452007.9  3743061.5  0  0
RE DISCCART  451962.2  3743041.1  0  0
RE DISCCART  451916.6  3743020.7  0  0
RE DISCCART  451871.0  3743000.2  0  0
RE DISCCART  451825.3  3742979.8  0  0
RE DISCCART  451779.7  3742959.4  0  0
RE DISCCART  451734.1  3742939.0  0  0
RE DISCCART  451688.4  3742918.5  0  0
RE DISCCART  451642.8  3742898.1  0  0
RE DISCCART  451597.2  3742877.7  0  0
RE DISCCART  451594.1  3742876.3  0  0
RE DISCCART  451559.4  3742907.5  0  0
RE DISCCART  451522.3  3742941.0  0  0
RE DISCCART  451485.1  3742974.4  0  0
RE DISCCART  451447.9  3743007.8  0  0
RE DISCCART  451411.2  3743040.9  0  0
RE DISCCART  451410.8  3743041.3  0  0
RE DISCCART  451378.1  3743079.1  0  0
RE DISCCART  451345.3  3743116.9  0  0
RE DISCCART  451312.6  3743154.7  0  0
RE DISCCART  451279.8  3743192.5  0  0
RE DISCCART  451247.1  3743230.3  0  0
RE DISCCART  451214.3  3743268.0  0  0
RE DISCCART  451181.6  3743305.8  0  0
RE DISCCART  451148.8  3743343.6  0  0
RE DISCCART  451140.3  3743353.4  0  0
RE DISCCART  451177.3  3743353.8  0  0
RE DISCCART  451227.3  3743354.4  0  0
RE DISCCART  451277.3  3743354.9  0  0
RE DISCCART  451327.3  3743355.5  0  0
RE DISCCART  451377.3  3743356.0  0  0
RE DISCCART  451427.3  3743356.6  0  0
RE DISCCART  451477.3  3743357.1  0  0
```

```
RE DISCCART  451527.3  3743357.7  0  0
RE DISCCART  451577.3  3743358.2  0  0
RE DISCCART  451594.1  3743358.4  0  0
RE DISCCART  451627.3  3743358.1  0  0
RE DISCCART  451677.3  3743357.7  0  0
RE DISCCART  451727.3  3743357.2  0  0
RE DISCCART  451777.3  3743356.8  0  0
RE DISCCART  451827.3  3743356.3  0  0
RE DISCCART  451877.3  3743355.9  0  0
RE DISCCART  451927.3  3743355.4  0  0
RE DISCCART  451977.3  3743355.0  0  0
RE DISCCART  452027.3  3743354.5  0  0
RE DISCCART  452077.3  3743354.1  0  0
RE DISCCART  452127.3  3743353.6  0  0
RE DISCCART  452177.3  3743353.2  0  0
RE DISCCART  452227.3  3743352.7  0  0
RE DISCCART  452277.3  3743352.3  0  0
RE DISCCART  452327.3  3743351.8  0  0
RE DISCCART  452328.8  3743351.8  0  0
RE DISCCART  452360.1  3743314.8  0  0
RE DISCCART  452392.3  3743276.6  0  0
** BOUNDARY  50M
RE DISCCART  452466.8  3743248.7  0  0
RE DISCCART  452421.4  3743227.8  0  0
RE DISCCART  452375.9  3743207.0  0  0
RE DISCCART  452330.5  3743186.1  0  0
RE DISCCART  452285.0  3743165.3  0  0
RE DISCCART  452239.6  3743144.4  0  0
RE DISCCART  452194.1  3743123.6  0  0
RE DISCCART  452148.7  3743102.7  0  0
RE DISCCART  452103.3  3743081.9  0  0
RE DISCCART  452057.8  3743061.0  0  0
RE DISCCART  452012.4  3743040.2  0  0
RE DISCCART  451966.9  3743019.3  0  0
RE DISCCART  451921.5  3742998.4  0  0
RE DISCCART  451876.0  3742977.6  0  0
RE DISCCART  451830.6  3742956.7  0  0
RE DISCCART  451785.2  3742935.9  0  0
RE DISCCART  451739.7  3742915.0  0  0
RE DISCCART  451694.3  3742894.2  0  0
RE DISCCART  451648.8  3742873.3  0  0
RE DISCCART  451603.4  3742852.5  0  0
RE DISCCART  451575.8  3742839.8  0  0
RE DISCCART  451561.8  3742853.6  0  0
RE DISCCART  451526.1  3742888.6  0  0
RE DISCCART  451490.5  3742923.7  0  0
RE DISCCART  451454.8  3742958.7  0  0
RE DISCCART  451419.1  3742993.7  0  0
RE DISCCART  451386.3  3743026.0  0  0
RE DISCCART  451383.7  3743029.0  0  0
RE DISCCART  451350.8  3743066.7  0  0
RE DISCCART  451317.9  3743104.3  0  0
RE DISCCART  451285.0  3743142.0  0  0
RE DISCCART  451252.1  3743179.6  0  0
RE DISCCART  451219.2  3743217.3  0  0
RE DISCCART  451186.3  3743254.9  0  0
RE DISCCART  451153.4  3743292.6  0  0
RE DISCCART  451120.5  3743330.3  0  0
RE DISCCART  451087.7  3743367.9  0  0
RE DISCCART  451077.1  3743380.0  0  0
RE DISCCART  451111.1  3743380.2  0  0
RE DISCCART  451161.1  3743380.4  0  0
RE DISCCART  451211.1  3743380.7  0  0
RE DISCCART  451261.1  3743380.9  0  0
RE DISCCART  451311.1  3743381.2  0  0
RE DISCCART  451361.1  3743381.4  0  0
RE DISCCART  451411.1  3743381.7  0  0
RE DISCCART  451461.1  3743381.9  0  0
RE DISCCART  451511.1  3743382.2  0  0
```

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RE DISCCART  451561.1  3743382.5  0  0
RE DISCCART  451611.1  3743382.7  0  0
RE DISCCART  451661.1  3743383.0  0  0
RE DISCCART  451711.1  3743383.2  0  0
RE DISCCART  451748.7  3743383.4  0  0
RE DISCCART  451761.1  3743383.3  0  0
RE DISCCART  451811.0  3743382.9  0  0
RE DISCCART  451861.0  3743382.4  0  0
RE DISCCART  451911.0  3743382.0  0  0
RE DISCCART  451961.0  3743381.6  0  0
RE DISCCART  452011.0  3743381.1  0  0
RE DISCCART  452061.0  3743380.7  0  0
RE DISCCART  452111.0  3743380.3  0  0
RE DISCCART  452161.0  3743379.9  0  0
RE DISCCART  452211.0  3743379.4  0  0
RE DISCCART  452261.0  3743379.0  0  0
RE DISCCART  452311.0  3743378.6  0  0
RE DISCCART  452330.5  3743378.4  0  0
RE DISCCART  452352.6  3743357.4  0  0
RE DISCCART  452388.8  3743322.9  0  0
RE DISCCART  452425.1  3743288.4  0  0
RE DISCCART  452461.3  3743254.0  0  0
** BOUNDARY  100M
RE DISCCART  452548.2  3743228.8  0  0
RE DISCCART  452525.5  3743218.4  0  0
RE DISCCART  452502.8  3743207.9  0  0
RE DISCCART  452480.1  3743197.5  0  0
RE DISCCART  452457.3  3743187.0  0  0
RE DISCCART  452434.6  3743176.6  0  0
RE DISCCART  452411.9  3743166.2  0  0
RE DISCCART  452389.2  3743155.7  0  0
RE DISCCART  452366.5  3743145.3  0  0
RE DISCCART  452343.8  3743134.8  0  0
RE DISCCART  452321.0  3743124.4  0  0
RE DISCCART  452298.3  3743114.0  0  0
RE DISCCART  452275.6  3743103.5  0  0
RE DISCCART  452252.9  3743093.1  0  0
RE DISCCART  452230.2  3743082.6  0  0
RE DISCCART  452207.5  3743072.2  0  0
RE DISCCART  452184.7  3743061.8  0  0
RE DISCCART  452162.0  3743051.3  0  0
RE DISCCART  452139.3  3743040.9  0  0
RE DISCCART  452116.6  3743030.4  0  0
RE DISCCART  452093.9  3743020.0  0  0
RE DISCCART  452071.2  3743009.6  0  0
RE DISCCART  452048.5  3742999.1  0  0
RE DISCCART  452025.7  3742988.7  0  0
RE DISCCART  452003.0  3742978.2  0  0
RE DISCCART  451980.3  3742967.8  0  0
RE DISCCART  451957.6  3742957.4  0  0
RE DISCCART  451934.9  3742946.9  0  0
RE DISCCART  451912.2  3742936.5  0  0
RE DISCCART  451889.4  3742926.0  0  0
RE DISCCART  451866.7  3742915.6  0  0
RE DISCCART  451844.0  3742905.2  0  0
RE DISCCART  451821.3  3742894.7  0  0
RE DISCCART  451798.6  3742884.3  0  0
RE DISCCART  451775.9  3742873.8  0  0
RE DISCCART  451753.1  3742863.4  0  0
RE DISCCART  451730.4  3742853.0  0  0
RE DISCCART  451707.7  3742842.5  0  0
RE DISCCART  451685.0  3742832.1  0  0
RE DISCCART  451662.3  3742821.6  0  0
RE DISCCART  451639.6  3742811.2  0  0
RE DISCCART  451616.8  3742800.8  0  0
RE DISCCART  451594.1  3742790.3  0  0
RE DISCCART  451571.4  3742779.9  0  0
RE DISCCART  451548.7  3742769.5  0  0
RE DISCCART  451542.5  3742766.6  0  0
```

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RE DISCCART  451529.3  3742779.1  0  0
RE DISCCART  451511.1  3742796.2  0  0
RE DISCCART  451492.9  3742813.4  0  0
RE DISCCART  451474.7  3742830.6  0  0
RE DISCCART  451456.6  3742847.7  0  0
RE DISCCART  451438.4  3742864.9  0  0
RE DISCCART  451420.2  3742882.0  0  0
RE DISCCART  451402.0  3742899.2  0  0
RE DISCCART  451383.9  3742916.4  0  0
RE DISCCART  451365.7  3742933.5  0  0
RE DISCCART  451347.5  3742950.7  0  0
RE DISCCART  451329.3  3742967.9  0  0
RE DISCCART  451311.1  3742985.0  0  0
RE DISCCART  451306.5  3742989.4  0  0
RE DISCCART  451294.8  3743003.9  0  0
RE DISCCART  451279.0  3743023.3  0  0
RE DISCCART  451263.3  3743042.7  0  0
RE DISCCART  451247.5  3743062.1  0  0
RE DISCCART  451231.8  3743081.5  0  0
RE DISCCART  451216.0  3743100.9  0  0
RE DISCCART  451200.3  3743120.3  0  0
RE DISCCART  451184.5  3743139.8  0  0
RE DISCCART  451168.8  3743159.2  0  0
RE DISCCART  451153.0  3743178.6  0  0
RE DISCCART  451137.3  3743198.0  0  0
RE DISCCART  451121.5  3743217.4  0  0
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RE DISCCART  451533.1  3743433.4  0  0
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RE DISCCART  451708.1  3743431.9  0  0
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RE DISCCART  452528.7  3743249.0  0  0
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** BOUNDARY  200M
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RE DISCCART  452628.7  3743160.4  0  0
RE DISCCART  452537.8  3743118.6  0  0
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RE DISCCART  452265.3  3742993.2  0  0
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** BOUNDARY  500M
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RE DISCCART  452897.1  3742945.3  0  0
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RE DISCCART  452213.5  3742636.8  0  0
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RE DISCCART  452903.8  3743444.4  0  0
RE DISCCART  452956.1  3743390.6  0  0
RE DISCCART  453008.3  3743336.8  0  0
RE DISCCART  453060.6  3743283.0  0  0
RE DISCCART  453112.9  3743229.2  0  0
RE DISCCART  453165.2  3743175.5  0  0
RE DISCCART  453217.4  3743121.7  0  0
RE FINISHED

ME STARTING
ME SURFFILE  "C:\Users\XEONRT\AMAZON~1\LDN\19-05L~1\AERMOD\LAKEEL~1\ELSI8.SFC"
** SURFFILE  "C:\Users\XEONRT\AMAZON~1\LDN\19-05L~1\AERMOD\LAKEEL~1\ELSI8.SFC"
ME PROFFILE  "C:\Users\XEONRT\AMAZON~1\LDN\19-05L~1\AERMOD\LAKEEL~1\ELSI8.PFL"
** PROFFILE  "C:\Users\XEONRT\AMAZON~1\LDN\19-05L~1\AERMOD\LAKEEL~1\ELSI8.PFL"
ME SURFDATA  0 2008
ME UAIRDATA  3190 2008
ME SITEDATA  00099999 2008
ME PROFBASE  0  METERS
```

```
ME STARTEND  2012  1  1  1  2012  12  31  24
ME FINISHED

OU STARTING
OU RECTABLE  24  FIRST
OU FILEFORM  FIX
OU PLOTFILE  24  ALL  FIRST  ALL`24`FIRST.plt  10000
OU FINISHED

** ************************************************************************
** It is recommended that the user not edit any data below this line
** ************************************************************************


** AMPTYPE
** AMPDATUM  -1
** AMPZONE  -1
** AMPHEMISPHERE

** PROJECTIONWKT
PROJCS["UTM_6326_Zone11",GEOGCS["WGS_84",DATUM["World_Geodetic_System_1984",SPHEROID["WGS_1984",6378137,298.2572235
63],TOWGS84[0,0,0,0,0,0,0]],PRIMEM["Greenwich",0],UNIT["Degree",0.0174532925199433]],PROJECTION["Universal_Transver
se_Mercator"],PARAMETER["Zone",11],UNIT["Meter",1,AUTHORITY["EPSG","9001"]]]
** PROJECTION  UTM
** DATUM  WGE
** UNITS  METER
** ZONE  11
** HEMISPHERE  N
** ORIGINLON  0
** ORIGINLAT  0
** PARALLEL1  0
** PARALLEL2  0
** AZIMUTH  0
** SCALEFACT  0
** FALSEEAST  0
** FALSENORTH  0

** POSTFMT  UNFORM
** TEMPLATE USERDEFINED
** AERMODEXE  AERMOD_BREEZE_18081_64.EXE
** AERMAPEXE  AERMAP_EPA_18081_64.EXE


 ***********************************
 *** SETUP Finishes Successfully ***
 ***********************************

 *** AERMOD - VERSION  18081 ***   ***  Latitude PM10 Total Construction Emissions                          ***
     05/07/19
 *** AERMET - VERSION  14134 ***   ***                                                                     ***
   12:58:34

   PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL

                                          ***     MODEL SETUP OPTIONS SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - -

 **Model Is Setup For Calculation of Average CONCentration Values.

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses RURAL Dispersion Only.
```

```
 **Model Uses Regulatory DEFAULT Options:
        1. Stack-tip Downwash.
        2. Model Accounts for ELEVated Terrain Effects.
        3. Use Calms Processing Routine.
        4. Use Missing Data Processing Routine.
        5. No Exponential Decay.

 **Other Options Specified:
        TEMP_Sub - Meteorological data includes TEMP substitutions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of:  PM10

 **Model Calculates  1 Short Term Average(s) of:  24-HR

 **This Run Includes:      1 Source(s);       1 Source Group(s); and     888 Receptor(s)

               with:      0 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:      0 VOLUME source(s)
                and:      1 AREA type source(s)
                and:      0 LINE source(s)
                and:      0 OPENPIT source(s)
                and:      0 BUOYANT LINE source(s) with      0 line(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  14134

 **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)

 **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) =     0.00 ;  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


 *** AERMOD - VERSION  18081 ***   ***  Latitude PM10 Total Construction Emissions                          ***
     05/07/19
 *** AERMET - VERSION  14134 ***   ***                                                                     ***
   12:58:34

   PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL


                                          *** AREAPOLY SOURCE DATA ***

              NUMBER EMISSION RATE   LOCATION OF AREA  BASE     RELEASE  NUMBER      INIT.   URBAN  EMISSION RATE
   SOURCE      PART.  (GRAMS/SEC       X        Y      ELEV.    HEIGHT  OF VERTS.     SZ     SOURCE  SCALAR VARY
     ID        CATS.   /METER**2)   (METERS) (METERS) (METERS) (METERS)            (METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - -
```

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
ALL	JUVEM000 ,

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: RLPS4001 ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

450567.8, 450689.3, 450810.8, 450932.3, 451053.8, 451175.3, 451296.8, 451418.3, 451539.8, 451661.3,
451782.8, 451904.3, 452025.8, 452147.3, 452268.8, 452390.3, 452511.8, 452633.3, 452754.8, 452876.3,
452997.8,

*** Y-COORDINATES OF GRID ***
(METERS)

3744266.3, 3744147.0, 3744027.7, 3743908.4, 3743789.1, 3743669.8, 3743550.5, 3743431.2, 3743311.9, 3743192.6,
3743073.3, 3742954.0, 3742834.7, 3742715.4, 3742596.1, 3742476.8, 3742357.5, 3742238.2, 3742118.9, 3741999.6,
3741880.3,

*** NETWORK ID: RLPS4001 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	450567.80	450689.30	450810.80	450932.30	451053.80	451175.30	451296.80	451418.30	451539.80
3741880.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3741999.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742118.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742238.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742357.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

0.00 0.00
3742476.80 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00
3742596.10 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00
3742715.40 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00
3742834.70 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00
3742954.00 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00
3743073.30 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00
3743192.60 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00
3743311.90 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00
3743431.20 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00
3743550.50 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00
3743669.80 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00
3743789.10 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00
3743908.40 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00
3744027.70 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00
3744147.00 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00
3744266.30 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00

*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL

*** NETWORK ID: RLPS4001 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	451661.30	451782.80	451904.30	452025.80	452147.30	452268.80	452390.30	452511.80	452633.30
3741880.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3741999.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742118.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742238.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742357.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742476.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742596.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742715.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3742834.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

```
  3742954.00 |          0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3743073.30 |          0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3743192.60 |          0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3743311.90 |          0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3743431.20 |          0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3743550.50 |          0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3743669.80 |          0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3743789.10 |          0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3743908.40 |          0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3744027.70 |          0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3744147.00 |          0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3744266.30 |          0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00

 *** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL

                                *** NETWORK ID: RLPS4001 ;  NETWORK TYPE: GRIDCART ***

                                          * ELEVATION HEIGHTS IN METERS *

    Y-COORD  |                                              X-COORD (METERS)
    (METERS) |     452754.80    452876.30    452997.80
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - -

  3741880.30 |          0.00         0.00         0.00
  3741999.60 |          0.00         0.00         0.00
  3742118.90 |          0.00         0.00         0.00
  3742238.20 |          0.00         0.00         0.00
  3742357.50 |          0.00         0.00         0.00
  3742476.80 |          0.00         0.00         0.00
  3742596.10 |          0.00         0.00         0.00
  3742715.40 |          0.00         0.00         0.00
  3742834.70 |          0.00         0.00         0.00
  3742954.00 |          0.00         0.00         0.00
  3743073.30 |          0.00         0.00         0.00
  3743192.60 |          0.00         0.00         0.00
  3743311.90 |          0.00         0.00         0.00
  3743431.20 |          0.00         0.00         0.00
  3743550.50 |          0.00         0.00         0.00
  3743669.80 |          0.00         0.00         0.00
  3743789.10 |          0.00         0.00         0.00
  3743908.40 |          0.00         0.00         0.00
  3744027.70 |          0.00         0.00         0.00
  3744147.00 |          0.00         0.00         0.00
  3744266.30 |          0.00         0.00         0.00

 *** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL
```

*** NETWORK ID: RLPS4001 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)									
	450567.80	450689.30	450810.80	450932.30	451053.80	451175.30	451296.80	451418.30	451539.80	
3741880.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3741999.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3742118.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3742238.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3742357.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3742476.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3742596.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3742715.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3742834.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3742954.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3743073.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3743192.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3743311.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3743431.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3743550.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3743669.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3743789.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3743908.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3744027.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3744147.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3744266.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

 *** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL

*** NETWORK ID: RLPS4001 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)									
	451661.30	451782.80	451904.30	452025.80	452147.30	452268.80	452390.30	452511.80	452633.30	

```
- - - - - - - - -

  3741880.30 |          0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3741999.60 |          0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3742118.90 |          0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3742238.20 |          0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3742357.50 |          0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3742476.80 |          0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3742596.10 |          0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3742715.40 |          0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3742834.70 |          0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3742954.00 |          0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3743073.30 |          0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3743192.60 |          0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3743311.90 |          0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3743431.20 |          0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3743550.50 |          0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3743669.80 |          0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3743789.10 |          0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3743908.40 |          0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3744027.70 |          0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3744147.00 |          0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
  3744266.30 |          0.00         0.00         0.00         0.00         0.00         0.00         0.00
0.00         0.00
 *** AERMOD - VERSION  18081 ***   ***  Latitude PM10 Total Construction Emissions                        ***
     05/07/19
 *** AERMET - VERSION  14134 ***   ***                                                                   ***
   12:58:34

   PAGE  10
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL

                                *** NETWORK ID: RLPS4001 ;  NETWORK TYPE: GRIDCART ***

                                          * HILL HEIGHT SCALES IN METERS *

    Y-COORD  |                                          X-COORD (METERS)
    (METERS) |     452754.80    452876.30    452997.80
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - -

  3741880.30 |          0.00         0.00         0.00
  3741999.60 |          0.00         0.00         0.00
  3742118.90 |          0.00         0.00         0.00
  3742238.20 |          0.00         0.00         0.00
  3742357.50 |          0.00         0.00         0.00
  3742476.80 |          0.00         0.00         0.00
  3742596.10 |          0.00         0.00         0.00
  3742715.40 |          0.00         0.00         0.00
```

3742834.70	0.00	0.00	0.00
3742954.00	0.00	0.00	0.00
3743073.30	0.00	0.00	0.00
3743192.60	0.00	0.00	0.00
3743311.90	0.00	0.00	0.00
3743431.20	0.00	0.00	0.00
3743550.50	0.00	0.00	0.00
3743669.80	0.00	0.00	0.00
3743789.10	0.00	0.00	0.00
3743908.40	0.00	0.00	0.00
3744027.70	0.00	0.00	0.00
3744147.00	0.00	0.00	0.00
3744266.30	0.00	0.00	0.00

*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(452418.6, 3743245.4, 0.0, 0.0, 0.0); (452373.0, 3743225.0, 0.0, 0.0, 0.0);
(452327.3, 3743204.5, 0.0, 0.0, 0.0); (452281.7, 3743184.1, 0.0, 0.0, 0.0);
(452236.1, 3743163.7, 0.0, 0.0, 0.0); (452190.4, 3743143.3, 0.0, 0.0, 0.0);
(452144.8, 3743122.8, 0.0, 0.0, 0.0); (452099.1, 3743102.4, 0.0, 0.0, 0.0);
(452053.5, 3743082.0, 0.0, 0.0, 0.0); (452007.9, 3743061.5, 0.0, 0.0, 0.0);
(451962.2, 3743041.1, 0.0, 0.0, 0.0); (451916.6, 3743020.7, 0.0, 0.0, 0.0);
(451871.0, 3743000.2, 0.0, 0.0, 0.0); (451825.3, 3742979.8, 0.0, 0.0, 0.0);
(451779.7, 3742959.4, 0.0, 0.0, 0.0); (451734.1, 3742939.0, 0.0, 0.0, 0.0);
(451688.4, 3742918.5, 0.0, 0.0, 0.0); (451642.8, 3742898.1, 0.0, 0.0, 0.0);
(451597.2, 3742877.7, 0.0, 0.0, 0.0); (451594.1, 3742876.3, 0.0, 0.0, 0.0);
(451559.4, 3742907.5, 0.0, 0.0, 0.0); (451522.3, 3742941.0, 0.0, 0.0, 0.0);
(451485.1, 3742974.4, 0.0, 0.0, 0.0); (451447.9, 3743007.8, 0.0, 0.0, 0.0);
(451411.2, 3743040.9, 0.0, 0.0, 0.0); (451410.8, 3743041.3, 0.0, 0.0, 0.0);
(451378.1, 3743079.1, 0.0, 0.0, 0.0); (451345.3, 3743116.9, 0.0, 0.0, 0.0);
(451312.6, 3743154.7, 0.0, 0.0, 0.0); (451279.8, 3743192.5, 0.0, 0.0, 0.0);
(451247.1, 3743230.3, 0.0, 0.0, 0.0); (451214.3, 3743268.0, 0.0, 0.0, 0.0);
(451181.6, 3743305.8, 0.0, 0.0, 0.0); (451148.8, 3743343.6, 0.0, 0.0, 0.0);
(451140.3, 3743353.4, 0.0, 0.0, 0.0); (451177.3, 3743353.8, 0.0, 0.0, 0.0);
(451227.3, 3743354.4, 0.0, 0.0, 0.0); (451277.3, 3743354.9, 0.0, 0.0, 0.0);
(451327.3, 3743355.5, 0.0, 0.0, 0.0); (451377.3, 3743356.0, 0.0, 0.0, 0.0);
(451427.3, 3743356.6, 0.0, 0.0, 0.0); (451477.3, 3743357.1, 0.0, 0.0, 0.0);
(451527.3, 3743357.7, 0.0, 0.0, 0.0); (451577.3, 3743358.2, 0.0, 0.0, 0.0);

(451594.1, 3743358.4, 0.0, 0.0, 0.0); (451627.3, 3743358.1, 0.0, 0.0,
0.0);
(451677.3, 3743357.7, 0.0, 0.0, 0.0); (451727.3, 3743357.2, 0.0, 0.0,
0.0);
(451777.3, 3743356.8, 0.0, 0.0, 0.0); (451827.3, 3743356.3, 0.0, 0.0,
0.0);
(451877.3, 3743355.9, 0.0, 0.0, 0.0); (451927.3, 3743355.4, 0.0, 0.0,
0.0);
(451977.3, 3743355.0, 0.0, 0.0, 0.0); (452027.3, 3743354.5, 0.0, 0.0,
0.0);
(452077.3, 3743354.1, 0.0, 0.0, 0.0); (452127.3, 3743353.6, 0.0, 0.0,
0.0);
(452177.3, 3743353.2, 0.0, 0.0, 0.0); (452227.3, 3743352.7, 0.0, 0.0,
0.0);
(452277.3, 3743352.3, 0.0, 0.0, 0.0); (452327.3, 3743351.8, 0.0, 0.0,
0.0);
(452328.8, 3743351.8, 0.0, 0.0, 0.0); (452360.1, 3743314.8, 0.0, 0.0,
0.0);
(452392.3, 3743276.6, 0.0, 0.0, 0.0); (452466.8, 3743248.7, 0.0, 0.0,
0.0);
(452421.4, 3743227.8, 0.0, 0.0, 0.0); (452375.9, 3743207.0, 0.0, 0.0,
0.0);
(452330.5, 3743186.1, 0.0, 0.0, 0.0); (452285.0, 3743165.3, 0.0, 0.0,
0.0);
(452239.6, 3743144.4, 0.0, 0.0, 0.0); (452194.1, 3743123.6, 0.0, 0.0,
0.0);
(452148.7, 3743102.7, 0.0, 0.0, 0.0); (452103.3, 3743081.9, 0.0, 0.0,
0.0);
(452057.8, 3743061.0, 0.0, 0.0, 0.0); (452012.4, 3743040.2, 0.0, 0.0,
0.0);
(451966.9, 3743019.3, 0.0, 0.0, 0.0); (451921.5, 3742998.4, 0.0, 0.0,
0.0);
(451876.0, 3742977.6, 0.0, 0.0, 0.0); (451830.6, 3742956.7, 0.0, 0.0,
0.0);
(451785.2, 3742935.9, 0.0, 0.0, 0.0); (451739.7, 3742915.0, 0.0, 0.0,
0.0);
(451694.3, 3742894.2, 0.0, 0.0, 0.0); (451648.8, 3742873.3, 0.0, 0.0,
0.0);
(451603.4, 3742852.5, 0.0, 0.0, 0.0); (451575.8, 3742839.8, 0.0, 0.0,
0.0);
(451561.8, 3742853.6, 0.0, 0.0, 0.0); (451526.1, 3742888.6, 0.0, 0.0,
0.0);
(451490.5, 3742923.7, 0.0, 0.0, 0.0); (451454.8, 3742958.7, 0.0, 0.0,
0.0);
(451419.1, 3742993.7, 0.0, 0.0, 0.0); (451386.3, 3743026.0, 0.0, 0.0,
0.0);

*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(451383.7, 3743029.0, 0.0, 0.0, 0.0); (451350.8, 3743066.7, 0.0, 0.0,
0.0);
(451317.9, 3743104.3, 0.0, 0.0, 0.0); (451285.0, 3743142.0, 0.0, 0.0,
0.0);
(451252.1, 3743179.6, 0.0, 0.0, 0.0); (451219.2, 3743217.3, 0.0, 0.0,
0.0);
(451186.3, 3743254.9, 0.0, 0.0, 0.0); (451153.4, 3743292.6, 0.0, 0.0,
0.0);
(451120.5, 3743330.3, 0.0, 0.0, 0.0); (451087.7, 3743367.9, 0.0, 0.0,
0.0);
(451077.1, 3743380.0, 0.0, 0.0, 0.0); (451111.1, 3743380.2, 0.0, 0.0,

0.0);
(451161.1, 3743380.4,	0.0,	0.0,	0.0);	(451211.1, 3743380.7,	0.0,	0.0,
0.0);
(451261.1, 3743380.9,	0.0,	0.0,	0.0);	(451311.1, 3743381.2,	0.0,	0.0,
0.0);
(451361.1, 3743381.4,	0.0,	0.0,	0.0);	(451411.1, 3743381.7,	0.0,	0.0,
0.0);
(451461.1, 3743381.9,	0.0,	0.0,	0.0);	(451511.1, 3743382.2,	0.0,	0.0,
0.0);
(451561.1, 3743382.5,	0.0,	0.0,	0.0);	(451611.1, 3743382.7,	0.0,	0.0,
0.0);
(451661.1, 3743383.0,	0.0,	0.0,	0.0);	(451711.1, 3743383.2,	0.0,	0.0,
0.0);
(451748.7, 3743383.4,	0.0,	0.0,	0.0);	(451761.1, 3743383.3,	0.0,	0.0,
0.0);
(451811.0, 3743382.9,	0.0,	0.0,	0.0);	(451861.0, 3743382.4,	0.0,	0.0,
0.0);
(451911.0, 3743382.0,	0.0,	0.0,	0.0);	(451961.0, 3743381.6,	0.0,	0.0,
0.0);
(452011.0, 3743381.1,	0.0,	0.0,	0.0);	(452061.0, 3743380.7,	0.0,	0.0,
0.0);
(452111.0, 3743380.3,	0.0,	0.0,	0.0);	(452161.0, 3743379.9,	0.0,	0.0,
0.0);
(452211.0, 3743379.4,	0.0,	0.0,	0.0);	(452261.0, 3743379.0,	0.0,	0.0,
0.0);
(452311.0, 3743378.6,	0.0,	0.0,	0.0);	(452330.5, 3743378.4,	0.0,	0.0,
0.0);
(452352.6, 3743357.4,	0.0,	0.0,	0.0);	(452388.8, 3743322.9,	0.0,	0.0,
0.0);
(452425.1, 3743288.4,	0.0,	0.0,	0.0);	(452461.3, 3743254.0,	0.0,	0.0,
0.0);
(452548.2, 3743228.8,	0.0,	0.0,	0.0);	(452525.5, 3743218.4,	0.0,	0.0,
0.0);
(452502.8, 3743207.9,	0.0,	0.0,	0.0);	(452480.1, 3743197.5,	0.0,	0.0,
0.0);
(452457.3, 3743187.0,	0.0,	0.0,	0.0);	(452434.6, 3743176.6,	0.0,	0.0,
0.0);
(452411.9, 3743166.2,	0.0,	0.0,	0.0);	(452389.2, 3743155.7,	0.0,	0.0,
0.0);
(452366.5, 3743145.3,	0.0,	0.0,	0.0);	(452343.8, 3743134.8,	0.0,	0.0,
0.0);
(452321.0, 3743124.4,	0.0,	0.0,	0.0);	(452298.3, 3743114.0,	0.0,	0.0,
0.0);
(452275.6, 3743103.5,	0.0,	0.0,	0.0);	(452252.9, 3743093.1,	0.0,	0.0,
0.0);
(452230.2, 3743082.6,	0.0,	0.0,	0.0);	(452207.5, 3743072.2,	0.0,	0.0,
0.0);
(452184.7, 3743061.8,	0.0,	0.0,	0.0);	(452162.0, 3743051.3,	0.0,	0.0,
0.0);
(452139.3, 3743040.9,	0.0,	0.0,	0.0);	(452116.6, 3743030.4,	0.0,	0.0,
0.0);
(452093.9, 3743020.0,	0.0,	0.0,	0.0);	(452071.2, 3743009.6,	0.0,	0.0,
0.0);
(452048.5, 3742999.1,	0.0,	0.0,	0.0);	(452025.7, 3742988.7,	0.0,	0.0,
0.0);
(452003.0, 3742978.2,	0.0,	0.0,	0.0);	(451980.3, 3742967.8,	0.0,	0.0,
0.0);
(451957.6, 3742957.4,	0.0,	0.0,	0.0);	(451934.9, 3742946.9,	0.0,	0.0,
0.0);
(451912.2, 3742936.5,	0.0,	0.0,	0.0);	(451889.4, 3742926.0,	0.0,	0.0,
0.0);
(451866.7, 3742915.6,	0.0,	0.0,	0.0);	(451844.0, 3742905.2,	0.0,	0.0,
0.0);
(451821.3, 3742894.7,	0.0,	0.0,	0.0);	(451798.6, 3742884.3,	0.0,	0.0,
0.0);
(451775.9, 3742873.8,	0.0,	0.0,	0.0);	(451753.1, 3742863.4,	0.0,	0.0,
0.0);
(451730.4, 3742853.0,	0.0,	0.0,	0.0);	(451707.7, 3742842.5,	0.0,	0.0,
0.0);

(451685.0, 3742832.1, 0.0, 0.0, 0.0); (451662.3, 3742821.6, 0.0, 0.0, 0.0);
(451639.6, 3742811.2, 0.0, 0.0, 0.0); (451616.8, 3742800.8, 0.0, 0.0, 0.0);
(451594.1, 3742790.3, 0.0, 0.0, 0.0); (451571.4, 3742779.9, 0.0, 0.0, 0.0);
(451548.7, 3742769.5, 0.0, 0.0, 0.0); (451542.5, 3742766.6, 0.0, 0.0, 0.0);
(451529.3, 3742779.1, 0.0, 0.0, 0.0); (451511.1, 3742796.2, 0.0, 0.0, 0.0);

*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(451492.9, 3742813.4, 0.0, 0.0, 0.0); (451474.7, 3742830.6, 0.0, 0.0, 0.0);
(451456.6, 3742847.7, 0.0, 0.0, 0.0); (451438.4, 3742864.9, 0.0, 0.0, 0.0);
(451420.2, 3742882.0, 0.0, 0.0, 0.0); (451402.0, 3742899.2, 0.0, 0.0, 0.0);
(451383.9, 3742916.4, 0.0, 0.0, 0.0); (451365.7, 3742933.5, 0.0, 0.0, 0.0);
(451347.5, 3742950.7, 0.0, 0.0, 0.0); (451329.3, 3742967.9, 0.0, 0.0, 0.0);
(451311.1, 3742985.0, 0.0, 0.0, 0.0); (451306.5, 3742989.4, 0.0, 0.0, 0.0);
(451294.8, 3743003.9, 0.0, 0.0, 0.0); (451279.0, 3743023.3, 0.0, 0.0, 0.0);
(451263.3, 3743042.7, 0.0, 0.0, 0.0); (451247.5, 3743062.1, 0.0, 0.0, 0.0);
(451231.8, 3743081.5, 0.0, 0.0, 0.0); (451216.0, 3743100.9, 0.0, 0.0, 0.0);
(451200.3, 3743120.3, 0.0, 0.0, 0.0); (451184.5, 3743139.8, 0.0, 0.0, 0.0);
(451168.8, 3743159.2, 0.0, 0.0, 0.0); (451153.0, 3743178.6, 0.0, 0.0, 0.0);
(451137.3, 3743198.0, 0.0, 0.0, 0.0); (451121.5, 3743217.4, 0.0, 0.0, 0.0);
(451105.8, 3743236.8, 0.0, 0.0, 0.0); (451090.0, 3743256.2, 0.0, 0.0, 0.0);
(451074.3, 3743275.7, 0.0, 0.0, 0.0); (451058.5, 3743295.1, 0.0, 0.0, 0.0);
(451042.8, 3743314.5, 0.0, 0.0, 0.0); (451027.0, 3743333.9, 0.0, 0.0, 0.0);
(451011.3, 3743353.3, 0.0, 0.0, 0.0); (450995.5, 3743372.7, 0.0, 0.0, 0.0);
(450979.8, 3743392.2, 0.0, 0.0, 0.0); (450964.0, 3743411.6, 0.0, 0.0, 0.0);
(450948.3, 3743431.0, 0.0, 0.0, 0.0); (450942.4, 3743438.2, 0.0, 0.0, 0.0);
(450958.1, 3743438.1, 0.0, 0.0, 0.0); (450983.1, 3743437.9, 0.0, 0.0, 0.0);
(451008.1, 3743437.7, 0.0, 0.0, 0.0); (451033.1, 3743437.5, 0.0, 0.0, 0.0);
(451058.1, 3743437.3, 0.0, 0.0, 0.0); (451083.1, 3743437.1, 0.0, 0.0, 0.0);
(451108.1, 3743436.8, 0.0, 0.0, 0.0); (451133.1, 3743436.6, 0.0, 0.0, 0.0);
(451158.1, 3743436.4, 0.0, 0.0, 0.0); (451183.1, 3743436.2, 0.0, 0.0, 0.0);
(451208.1, 3743436.0, 0.0, 0.0, 0.0); (451233.1, 3743435.8, 0.0, 0.0,

0.0);
(451258.1, 3743435.6, 0.0, 0.0, 0.0); (451283.1, 3743435.4, 0.0, 0.0,
0.0);
(451308.1, 3743435.2, 0.0, 0.0, 0.0); (451333.1, 3743435.0, 0.0, 0.0,
0.0);
(451358.1, 3743434.8, 0.0, 0.0, 0.0); (451383.1, 3743434.6, 0.0, 0.0,
0.0);
(451408.1, 3743434.4, 0.0, 0.0, 0.0); (451433.1, 3743434.2, 0.0, 0.0,
0.0);
(451458.1, 3743434.0, 0.0, 0.0, 0.0); (451483.1, 3743433.8, 0.0, 0.0,
0.0);
(451508.1, 3743433.6, 0.0, 0.0, 0.0); (451533.1, 3743433.4, 0.0, 0.0,
0.0);
(451558.1, 3743433.2, 0.0, 0.0, 0.0); (451583.1, 3743433.0, 0.0, 0.0,
0.0);
(451608.1, 3743432.8, 0.0, 0.0, 0.0); (451633.1, 3743432.6, 0.0, 0.0,
0.0);
(451658.1, 3743432.4, 0.0, 0.0, 0.0); (451683.1, 3743432.1, 0.0, 0.0,
0.0);
(451708.1, 3743431.9, 0.0, 0.0, 0.0); (451733.1, 3743431.7, 0.0, 0.0,
0.0);
(451758.1, 3743431.5, 0.0, 0.0, 0.0); (451783.1, 3743431.3, 0.0, 0.0,
0.0);
(451808.1, 3743431.1, 0.0, 0.0, 0.0); (451833.1, 3743430.9, 0.0, 0.0,
0.0);
(451858.1, 3743430.7, 0.0, 0.0, 0.0); (451883.1, 3743430.5, 0.0, 0.0,
0.0);
(451908.1, 3743430.3, 0.0, 0.0, 0.0); (451933.1, 3743430.1, 0.0, 0.0,
0.0);
(451958.1, 3743429.9, 0.0, 0.0, 0.0); (451983.1, 3743429.7, 0.0, 0.0,
0.0);
(452008.1, 3743429.5, 0.0, 0.0, 0.0); (452033.1, 3743429.3, 0.0, 0.0,
0.0);
(452058.1, 3743429.1, 0.0, 0.0, 0.0); (452083.1, 3743428.9, 0.0, 0.0,
0.0);
(452108.1, 3743428.7, 0.0, 0.0, 0.0); (452133.1, 3743428.5, 0.0, 0.0,
0.0);
(452158.1, 3743428.3, 0.0, 0.0, 0.0); (452183.1, 3743428.1, 0.0, 0.0,
0.0);
(452208.1, 3743427.9, 0.0, 0.0, 0.0); (452233.1, 3743427.7, 0.0, 0.0,
0.0);
(452258.1, 3743427.5, 0.0, 0.0, 0.0); (452283.1, 3743427.2, 0.0, 0.0,
0.0);

*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(452308.1, 3743427.0, 0.0, 0.0, 0.0); (452333.1, 3743426.8, 0.0, 0.0,
0.0);
(452358.1, 3743426.6, 0.0, 0.0, 0.0); (452362.1, 3743426.6, 0.0, 0.0,
0.0);
(452360.4, 3743423.3, 0.0, 0.0, 0.0); (452372.4, 3743410.9, 0.0, 0.0,
0.0);
(452389.7, 3743392.9, 0.0, 0.0, 0.0); (452407.1, 3743374.9, 0.0, 0.0,
0.0);
(452424.5, 3743356.9, 0.0, 0.0, 0.0); (452441.8, 3743339.0, 0.0, 0.0,
0.0);
(452459.2, 3743321.0, 0.0, 0.0, 0.0); (452476.6, 3743303.0, 0.0, 0.0,
0.0);
(452493.9, 3743285.0, 0.0, 0.0, 0.0); (452511.3, 3743267.0, 0.0, 0.0,
0.0);

(452528.7, 3743249.0, 0.0, 0.0, 0.0); (452546.0, 3743231.0, 0.0, 0.0,
0.0);
(452719.5, 3743202.2, 0.0, 0.0, 0.0); (452628.7, 3743160.4, 0.0, 0.0,
0.0);
(452537.8, 3743118.6, 0.0, 0.0, 0.0); (452447.0, 3743076.8, 0.0, 0.0,
0.0);
(452356.1, 3743035.0, 0.0, 0.0, 0.0); (452265.3, 3742993.2, 0.0, 0.0,
0.0);
(452174.4, 3742951.5, 0.0, 0.0, 0.0); (452083.6, 3742909.7, 0.0, 0.0,
0.0);
(451992.7, 3742867.9, 0.0, 0.0, 0.0); (451901.9, 3742826.1, 0.0, 0.0,
0.0);
(451811.0, 3742784.3, 0.0, 0.0, 0.0); (451720.2, 3742742.5, 0.0, 0.0,
0.0);
(451629.3, 3742700.7, 0.0, 0.0, 0.0); (451538.5, 3742658.9, 0.0, 0.0,
0.0);
(451494.3, 3742638.6, 0.0, 0.0, 0.0); (451460.5, 3742677.3, 0.0, 0.0,
0.0);
(451394.8, 3742752.7, 0.0, 0.0, 0.0); (451329.1, 3742828.1, 0.0, 0.0,
0.0);
(451263.4, 3742903.5, 0.0, 0.0, 0.0); (451197.7, 3742978.9, 0.0, 0.0,
0.0);
(451132.0, 3743054.2, 0.0, 0.0, 0.0); (451066.3, 3743129.6, 0.0, 0.0,
0.0);
(451000.6, 3743205.0, 0.0, 0.0, 0.0); (450934.9, 3743280.4, 0.0, 0.0,
0.0);
(450869.2, 3743355.8, 0.0, 0.0, 0.0); (450803.5, 3743431.2, 0.0, 0.0,
0.0);
(450737.8, 3743506.5, 0.0, 0.0, 0.0); (450703.1, 3743546.3, 0.0, 0.0,
0.0);
(450750.4, 3743545.8, 0.0, 0.0, 0.0); (450850.4, 3743544.8, 0.0, 0.0,
0.0);
(450950.3, 3743543.9, 0.0, 0.0, 0.0); (451050.3, 3743542.9, 0.0, 0.0,
0.0);
(451150.3, 3743541.9, 0.0, 0.0, 0.0); (451250.3, 3743540.9, 0.0, 0.0,
0.0);
(451350.3, 3743539.9, 0.0, 0.0, 0.0); (451450.3, 3743538.9, 0.0, 0.0,
0.0);
(451550.3, 3743537.9, 0.0, 0.0, 0.0); (451650.3, 3743537.0, 0.0, 0.0,
0.0);
(451750.3, 3743536.0, 0.0, 0.0, 0.0); (451850.3, 3743535.0, 0.0, 0.0,
0.0);
(451950.3, 3743534.0, 0.0, 0.0, 0.0); (452050.3, 3743533.0, 0.0, 0.0,
0.0);
(452150.3, 3743532.0, 0.0, 0.0, 0.0); (452250.3, 3743531.0, 0.0, 0.0,
0.0);
(452350.3, 3743530.0, 0.0, 0.0, 0.0); (452395.3, 3743529.6, 0.0, 0.0,
0.0);
(452433.5, 3743491.4, 0.0, 0.0, 0.0); (452434.2, 3743490.7, 0.0, 0.0,
0.0);
(452504.5, 3743419.6, 0.0, 0.0, 0.0); (452574.8, 3743348.5, 0.0, 0.0,
0.0);
(452645.1, 3743277.4, 0.0, 0.0, 0.0); (452715.4, 3743206.3, 0.0, 0.0,
0.0);
(453238.9, 3743099.6, 0.0, 0.0, 0.0); (453170.5, 3743068.7, 0.0, 0.0,
0.0);
(453102.2, 3743037.9, 0.0, 0.0, 0.0); (453033.8, 3743007.0, 0.0, 0.0,
0.0);
(452965.5, 3742976.2, 0.0, 0.0, 0.0); (452897.1, 3742945.3, 0.0, 0.0,
0.0);
(452828.7, 3742914.5, 0.0, 0.0, 0.0); (452760.4, 3742883.6, 0.0, 0.0,
0.0);
(452692.0, 3742852.8, 0.0, 0.0, 0.0); (452623.6, 3742821.9, 0.0, 0.0,
0.0);
(452555.3, 3742791.1, 0.0, 0.0, 0.0); (452486.9, 3742760.2, 0.0, 0.0,
0.0);
(452418.6, 3742729.4, 0.0, 0.0, 0.0); (452350.2, 3742698.5, 0.0, 0.0,
0.0);
(452281.8, 3742667.7, 0.0, 0.0, 0.0); (452213.5, 3742636.8, 0.0, 0.0,

*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(451735.0, 3742420.9, 0.0, 0.0, 0.0); (451666.6, 3742390.0, 0.0, 0.0, 0.0);
(451598.2, 3742359.2, 0.0, 0.0, 0.0); (451529.9, 3742328.3, 0.0, 0.0, 0.0);
(451461.5, 3742297.5, 0.0, 0.0, 0.0); (451393.1, 3742266.6, 0.0, 0.0, 0.0);
(451360.5, 3742251.9, 0.0, 0.0, 0.0); (451336.9, 3742283.2, 0.0, 0.0, 0.0);
(451291.8, 3742343.1, 0.0, 0.0, 0.0); (451246.7, 3742403.0, 0.0, 0.0, 0.0);
(451201.6, 3742462.9, 0.0, 0.0, 0.0); (451156.5, 3742522.8, 0.0, 0.0, 0.0);
(451111.3, 3742582.7, 0.0, 0.0, 0.0); (451066.2, 3742642.7, 0.0, 0.0, 0.0);
(451021.1, 3742702.6, 0.0, 0.0, 0.0); (450976.0, 3742762.5, 0.0, 0.0, 0.0);
(450930.9, 3742822.4, 0.0, 0.0, 0.0); (450885.7, 3742882.3, 0.0, 0.0, 0.0);
(450840.6, 3742942.2, 0.0, 0.0, 0.0); (450795.5, 3743002.1, 0.0, 0.0, 0.0);
(450750.4, 3743062.0, 0.0, 0.0, 0.0); (450705.3, 3743121.9, 0.0, 0.0, 0.0);
(450660.1, 3743181.8, 0.0, 0.0, 0.0); (450615.0, 3743241.8, 0.0, 0.0, 0.0);
(450569.9, 3743301.7, 0.0, 0.0, 0.0); (450524.8, 3743361.6, 0.0, 0.0, 0.0);
(450479.7, 3743421.5, 0.0, 0.0, 0.0); (450434.5, 3743481.4, 0.0, 0.0, 0.0);
(450389.4, 3743541.3, 0.0, 0.0, 0.0); (450344.3, 3743601.2, 0.0, 0.0, 0.0);
(450299.2, 3743661.1, 0.0, 0.0, 0.0); (450254.1, 3743721.0, 0.0, 0.0, 0.0);
(450208.9, 3743781.0, 0.0, 0.0, 0.0); (450163.8, 3743840.9, 0.0, 0.0, 0.0);
(450153.7, 3743854.3, 0.0, 0.0, 0.0); (450211.9, 3743853.4, 0.0, 0.0, 0.0);
(450286.9, 3743852.3, 0.0, 0.0, 0.0); (450361.9, 3743851.1, 0.0, 0.0, 0.0);
(450436.8, 3743850.0, 0.0, 0.0, 0.0); (450511.8, 3743848.8, 0.0, 0.0, 0.0);
(450586.8, 3743847.7, 0.0, 0.0, 0.0); (450661.8, 3743846.5, 0.0, 0.0, 0.0);
(450736.8, 3743845.4, 0.0, 0.0, 0.0); (450811.8, 3743844.2, 0.0, 0.0, 0.0);
(450886.8, 3743843.1, 0.0, 0.0, 0.0); (450961.8, 3743841.9, 0.0, 0.0, 0.0);
(451036.8, 3743840.8, 0.0, 0.0, 0.0); (451111.8, 3743839.7, 0.0, 0.0, 0.0);
(451186.8, 3743838.5, 0.0, 0.0, 0.0); (451261.7, 3743837.4, 0.0, 0.0, 0.0);

(451336.7, 3743836.2, 0.0, 0.0, 0.0); (451411.7, 3743835.1, 0.0, 0.0, 0.0);
(451486.7, 3743833.9, 0.0, 0.0, 0.0); (451561.7, 3743832.8, 0.0, 0.0, 0.0);
(451636.7, 3743831.6, 0.0, 0.0, 0.0); (451711.7, 3743830.5, 0.0, 0.0, 0.0);
(451786.7, 3743829.3, 0.0, 0.0, 0.0); (451861.7, 3743828.2, 0.0, 0.0, 0.0);
(451936.7, 3743827.0, 0.0, 0.0, 0.0); (452011.7, 3743825.9, 0.0, 0.0, 0.0);
(452086.6, 3743824.7, 0.0, 0.0, 0.0); (452161.6, 3743823.6, 0.0, 0.0, 0.0);
(452236.6, 3743822.5, 0.0, 0.0, 0.0); (452311.6, 3743821.3, 0.0, 0.0, 0.0);
(452386.6, 3743820.2, 0.0, 0.0, 0.0); (452461.6, 3743819.0, 0.0, 0.0, 0.0);
(452536.6, 3743817.9, 0.0, 0.0, 0.0); (452540.8, 3743817.8, 0.0, 0.0, 0.0);
(452590.1, 3743767.0, 0.0, 0.0, 0.0); (452642.4, 3743713.3, 0.0, 0.0, 0.0);
(452694.7, 3743659.5, 0.0, 0.0, 0.0); (452747.0, 3743605.7, 0.0, 0.0, 0.0);
(452799.2, 3743551.9, 0.0, 0.0, 0.0); (452851.5, 3743498.1, 0.0, 0.0, 0.0);
(452903.8, 3743444.4, 0.0, 0.0, 0.0); (452956.1, 3743390.6, 0.0, 0.0, 0.0);
(453008.3, 3743336.8, 0.0, 0.0, 0.0); (453060.6, 3743283.0, 0.0, 0.0, 0.0);
(453112.9, 3743229.2, 0.0, 0.0, 0.0); (453165.2, 3743175.5, 0.0, 0.0, 0.0);
(453217.4, 3743121.7, 0.0, 0.0, 0.0);

*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL

*** 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

METEOROLOGICAL DATA PROCESSED BETWEEN START DATE: 2012 1 1 1
AND END DATE: 2012 12 31 24

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)

 *** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL

                                  *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

  Surface file: C:\Users\XEONRT\AMAZON~1\LDN\19-05L~1\AERMOD\LAKEEL~1\ELSI8.SFC   Met Version:
14134
  Profile file: C:\Users\XEONRT\AMAZON~1\LDN\19-05L~1\AERMOD\LAKEEL~1\ELSI8.PFL
  Surface format: FREE

  Profile format: FREE

  Surface station no.:   0   Upper air station no.:   3190
                Name: UNKNOWN   Name: UNKNOWN
                Year: 2008   Year: 2008

 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
- -
- - -
 08 01 01   1 01 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23   1.00   1.00 999.00 999.   -9.0 284.2
 5.5
 08 01 01   1 02 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23   1.00   1.00 999.00 999.   -9.0 283.1
 5.5
 08 01 01   1 03 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23   1.00   1.00 999.00 999.   -9.0 283.1
 5.5
 08 01 01   1 04 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23   1.00   1.00 999.00 999.   -9.0 283.8
 5.5
 08 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23   1.00   1.00 999.00 999.   -9.0 283.8
 5.5
 08 01 01   1 06 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23   1.00   1.00 999.00 999.   -9.0 283.8
 5.5
 08 01 01   1 07 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23   1.00   1.00 999.00 999.   -9.0 283.1
 5.5
 08 01 01   1 08 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23   1.00   0.54 999.00 999.   -9.0 283.8
 5.5
 08 01 01   1 09   27.2 -9.000 -9.000 -9.000   60. -999. -99999.0 0.23   1.00   0.33 999.00 999.   -9.0 285.9
 5.5
 08 01 01   1 10   74.6 -9.000 -9.000 -9.000 157. -999. -99999.0 0.23   1.00   0.25 999.00 999.   -9.0 288.1
 5.5
 08 01 01   1 11 107.4 -9.000 -9.000 -9.000 375. -999. -99999.0 0.23   1.00   0.23 999.00 999.   -9.0 289.9
 5.5
 08 01 01   1 12 122.7 -9.000 -9.000 -9.000 578. -999. -99999.0 0.23   1.00   0.22 999.00 999.   -9.0 289.9
 5.5
 08 01 01   1 13 121.3 -9.000 -9.000 -9.000 714. -999. -99999.0 0.23   1.00   0.22 999.00 999.   -9.0 291.4
 5.5
 08 01 01   1 14 102.1 -9.000 -9.000 -9.000 763. -999. -99999.0 0.23   1.00   0.23 999.00 999.   -9.0 292.0
 5.5
 08 01 01   1 15   65.8 -9.000 -9.000 -9.000 792. -999. -99999.0 0.23   1.00   0.27 999.00 999.   -9.0 291.4
 5.5
 08 01 01   1 16   16.0 -9.000 -9.000 -9.000 798. -999. -99999.0 0.23   1.00   0.36 999.00 999.   -9.0 290.4
 5.5
 08 01 01   1 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23   1.00   0.63 999.00 999.   -9.0 288.8
 5.5
 08 01 01   1 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23   1.00   1.00 999.00 999.   -9.0 287.5
 5.5
 08 01 01   1 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23   1.00   1.00 999.00 999.   -9.0 286.4
 5.5
 08 01 01   1 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23   1.00   1.00 999.00 999.   -9.0 285.4
 5.5
 08 01 01   1 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23   1.00   1.00 999.00 999.   -9.0 284.2

```
 5.5
 08 01 01   1 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23   1.00   1.00  999.00  999.   -9.0  283.1
 5.5
 08 01 01   1 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23   1.00   1.00  999.00  999.   -9.0  283.1
 5.5
 08 01 01   1 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23   1.00   1.00  999.00  999.   -9.0  282.5
 5.5


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 08 01 01 01    5.5 0 -999.  -99.00   284.3   99.0  -99.00  -99.00
 08 01 01 01    9.1 1 -999.  -99.00  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
 *** AERMOD - VERSION  18081 ***   ***  Latitude PM10 Total Construction Emissions                          ***
     05/07/19
 *** AERMET - VERSION  14134 ***   ***                                                                     ***
   12:58:34

   PAGE  18
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL

                            *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  ALL
 ***
                                INCLUDING SOURCE(S):     JUVEM000    ,

                                 *** NETWORK ID: RLPS4001 ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF PM10     IN MICROGRAMS/M**3                          **

  Y-COORD  |                                              X-COORD (METERS)
  (METERS) |       450567.80              450689.30              450810.80              450932.30
451053.80
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - -

 3741880.3 |      0.22675m(12111424)      0.26778m(12111424)      0.29009m(12111424)      0.28851m(12111424)
0.26337m(12122124)
 3741999.6 |      0.21545 (12112624)      0.26486m(12111424)      0.30779m(12111424)      0.32565m(12111424)
0.31174m(12111424)
 3742118.9 |      0.25386 (12112024)      0.24456m(12111424)      0.31020m(12111424)      0.35385m(12111424)
0.36431m(12111424)
 3742238.2 |      0.28984 (12112024)      0.29195 (12112024)      0.29179m(12111424)      0.36432m(12111424)
0.40760m(12111424)
 3742357.5 |      0.33921 (12010524)      0.33251 (12112024)      0.34065 (12112024)      0.35027m(12111424)
0.43029m(12111424)
 3742476.8 |      0.39524 (12010524)      0.41143 (12010524)      0.39898 (12010524)      0.40388 (12112024)
0.42452m(12111424)
 3742596.1 |      0.40169 (12010524)      0.45489 (12010524)      0.49518 (12010524)      0.51177 (12010524)
0.48698 (12112024)
 3742715.4 |      0.40112 (12010524)      0.47076 (12010524)      0.53965 (12010524)      0.60424 (12010524)
0.65887 (12010524)
 3742834.7 |      0.40109 (12010524)      0.48888 (12010524)      0.58642 (12010524)      0.68676 (12010524)
0.79107 (12010524)
 3742954.0 |      0.49676 (12120824)      0.52010 (12120824)      0.58304 (12010524)      0.73303 (12010524)
0.90165 (12010524)
 3743073.3 |      0.55881 (12120824)      0.62943 (12120824)      0.70540 (12120824)      0.79021 (12120824)
0.90979 (12120824)
 3743192.6 |      0.44307m(12011124)      0.51863m(12011124)      0.61083m(12011124)      0.74203 (12120824)
0.97081m(12102324)
 3743311.9 |      0.50216 (12102424)      0.56808 (12102424)      0.65065 (12102424)      0.77275m(12102324)
1.13317m(12102324)
 3743431.2 |      0.37234m(12102324)      0.47158m(12102324)      0.62347m(12102324)      0.83676m(12102324)
1.07063m(12102324)
 3743550.5 |      0.41096m(12102324)      0.52579m(12102324)      0.64623m(12102324)      0.73099m(12102324)
0.84630m(12102324)
 3743669.8 |      0.45006m(12102324)      0.50892m(12102324)      0.53734m(12102324)      0.63383 (12121624)
0.78259 (12121624)
```

Y-COORD (METERS)					
3743789.1	0.40624m(12102324)	0.41251m(12102324)	0.51420 (12121624)	0.60772 (12121624)	0.69485 (12121624)
3743908.4	0.35217 (12121624)	0.43239 (12121624)	0.49604 (12121624)	0.55274 (12121624)	0.60003 (12121624)
3744027.7	0.37202 (12121624)	0.41755 (12121624)	0.45365 (12121624)	0.48948 (12121624)	0.50553 (12121624)
3744147.0	0.35861 (12121624)	0.38261 (12121624)	0.40405 (12121624)	0.42307 (12121624)	0.41594 (12121624)
3744266.3	0.32891 (12121624)	0.34060 (12121624)	0.35305 (12121624)	0.35752 (12121624)	0.36233 (12060224)

*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): JUVEM000 ,

*** NETWORK ID: RLPS4001 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 451175.30	451296.80	451418.30	451539.80	451661.30
3741880.3	0.33702m(12122124)	0.38743m(12122124)	0.39153m(12122124)	0.35403m(12122124)	0.31467 (12011824)
3741999.6	0.34753m(12122124)	0.41594m(12122124)	0.43761m(12122124)	0.40565m(12122124)	0.36027m(12122124)
3742118.9	0.35367m(12122124)	0.44331m(12122124)	0.48824m(12122124)	0.46772m(12122124)	0.42730m(12122124)
3742238.2	0.40697m(12111424)	0.46853m(12122124)	0.54324m(12122124)	0.54300m(12122124)	0.51527m(12122124)
3742357.5	0.47306m(12111424)	0.48921m(12122124)	0.60236m(12122124)	0.63678m(12122124)	0.63189m(12122124)
3742476.8	0.51549m(12111424)	0.55942m(12111424)	0.66471m(12122124)	0.75869m(12122124)	0.78834m(12122124)
3742596.1	0.52600m(12111424)	0.63868m(12111424)	0.72765m(12122124)	0.92410m(12122124)	1.00162m(12122124)
3742715.4	0.67496 (12010524)	0.68679m(12111424)	0.82668m(12111424)	1.15209m(12122124)	1.29944m(12122124)
3742834.7	0.89169 (12010524)	0.96536 (12010524)	1.07073m(12122124)	1.47140m(12122124)	1.73751m(12122124)
3742954.0	1.09706 (12010524)	1.30724 (12010524)	1.76474m(12122124)	2.38640m(12122124)	2.35118m(12122124)
3743073.3	1.14111 (12010524)	1.48185 (12120824)	2.14788m(12122124)	2.38693m(12122124)	2.39002m(12122124)
3743192.6	1.43451m(12102324)	2.21888m(12102324)	2.49682m(12102324)	2.41626m(12102324)	2.23728m(12102324)
3743311.9	1.78868m(12102324)	2.26083m(12102324)	2.30164m(12102324)	2.25062m(12102324)	2.15104m(12102324)
3743431.2	1.30357m(12102324)	1.56730 (12121624)	1.60661 (12121624)	1.54593 (12121624)	1.44520 (12121624)
3743550.5	1.07274 (12121624)	1.18150 (12121624)	1.17201 (12121624)	1.10819 (12121624)	1.00831 (12121624)
3743669.8	0.89155 (12121624)	0.92474 (12121624)	0.89236 (12121624)	0.82316 (12121624)	0.71915m(12013024)
3743789.1	0.73730 (12121624)	0.73040 (12121624)	0.68416 (12121624)	0.60956 (12121624)	0.55994m(12013024)
3743908.4	0.60232 (12121624)	0.57196 (12121624)	0.53698 (12072624)	0.49476 (12072624)	0.46767 (12072324)
3744027.7	0.48297 (12121624)	0.48410 (12072624)	0.47070 (12072624)	0.42715 (12072624)	

```
0.39683 (12072324)
 3744147.0 |      0.41469 (12072624)      0.43567 (12072624)      0.41478 (12072624)      0.37034 (12072624)
0.33604 (12072324)
 3744266.3 |      0.38584 (12072624)      0.39233 (12072624)      0.36638 (12072624)      0.32118 (12072624)
0.28374 (12072324)
↑ *** AERMOD - VERSION  18081 ***   ***  Latitude PM10 Total Construction Emissions                          ***
     05/07/19
 *** AERMET - VERSION  14134 ***   ***                                                                     ***
   12:58:34

   PAGE  20
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL

                              *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  ALL
 ***
                                  INCLUDING SOURCE(S):     JUVEM000    ,

                                   *** NETWORK ID: RLPS4001 ;  NETWORK TYPE: GRIDCART ***

                                        ** CONC OF PM10     IN MICROGRAMS/M**3                          **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       451782.80               451904.30               452025.80               452147.30
452268.80
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - -

 3741880.3 |      0.30981m(12012424)      0.32639m(12012424)      0.30492m(12012424)      0.27522 (12122024)
0.29481 (12011724)
 3741999.6 |      0.34539m(12012424)      0.35242 (12122024)      0.33376 (12122024)      0.31833 (12011724)
0.34456 (12120424)
 3742118.9 |      0.41146m(12122124)      0.40732m(12122124)      0.36993 (12122024)      0.37172 (12011724)
0.41435 (12120424)
 3742238.2 |      0.51005m(12122124)      0.49187m(12122124)      0.41995 (12122024)      0.45814 (12120424)
0.47648 (12120424)
 3742357.5 |      0.63648m(12122124)      0.58298m(12122124)      0.51025 (12120424)      0.54675 (12120424)
0.52323 (12120424)
 3742476.8 |      0.79123m(12122124)      0.68328m(12122124)      0.64597 (12120424)      0.61623 (12120424)
0.58365m(12101424)
 3742596.1 |      0.97050m(12122124)      0.81981m(12122124)      0.76169 (12120424)      0.72240m(12101424)
0.68638m(12103024)
 3742715.4 |      1.19829m(12122124)      1.04396m(12122124)      0.92872m(12103024)      0.86196m(12103024)
0.79390 (12111924)
 3742834.7 |      1.57829m(12122124)      1.36439 (12111924)      1.28125 (12111924)      1.13009 (12111924)
0.95209 (12111924)
 3742954.0 |      2.12285 (12111924)      1.92287 (12111924)      1.64417 (12111924)      1.35120 (12111924)
1.06228 (12111924)
 3743073.3 |      2.38496m(12111424)      2.32424m(12111424)      2.02516m(12111424)      1.55706 (12111924)
1.16302 (12111924)
 3743192.6 |      1.99219m(12111424)      2.05082m(12111424)      1.98791m(12111424)      1.81649m(12111424)
1.42140m(12111424)
 3743311.9 |      1.99038m(12102324)      1.77721m(12102324)      1.58165 (12121724)      1.43345 (12110624)
1.32405 (12110624)
 3743431.2 |      1.31023 (12121624)      1.17483 (12100524)      1.07675 (12121724)      1.00541 (12121724)
0.90967 (12121724)
 3743550.5 |      0.89338 (12100524)      0.79967 (12100524)      0.78149 (12071524)      0.70606 (12071524)
0.64137 (12121724)
 3743669.8 |      0.64414 (12100524)      0.58780 (12111724)      0.59174 (12071524)      0.56330 (12071524)
0.48129 (12112524)
 3743789.1 |      0.51295 (12072324)      0.46743 (12091624)      0.44946 (12071524)      0.44311 (12071524)
0.40581 (12071524)
 3743908.4 |      0.43132 (12072324)      0.37681 (12091624)      0.33339 (12071524)      0.34216 (12071524)
0.34498 (12071524)
 3744027.7 |      0.36250 (12072324)      0.30798 (12091624)      0.27457 (12091624)      0.25864 (12071524)
0.28610 (12071524)
 3744147.0 |      0.30493 (12072324)      0.25644 (12091624)      0.23711 (12091624)      0.21013 (12091624)
0.23032 (12071524)
 3744266.3 |      0.25894 (12072324)      0.23532 (12040424)      0.20638 (12091624)      0.19202 (12091624)
0.18097 (12071524)
```

*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): JUVEM000 ,

*** NETWORK ID: RLPS4001 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 452390.30	452511.80	452633.30	452754.80	452876.30
3741880.3	0.32218 (12120424)	0.33822 (12120424)	0.34711 (12070724)	0.34828 (12070724)	0.32083 (12070724)
3741999.6	0.37449 (12120424)	0.37533 (12070724)	0.38062 (12070724)	0.35123 (12070724)	0.30781 (12070724)
3742118.9	0.41895 (12120424)	0.41885 (12070724)	0.38674 (12070724)	0.33928 (12070724)	0.29297 (12012924)
3742238.2	0.46505 (12070724)	0.42905 (12070724)	0.38086m(12101424)	0.35083m(12103024)	0.30605m(12103024)
3742357.5	0.48570m(12101424)	0.45919m(12103024)	0.42373m(12103024)	0.36127m(12103024)	0.31807m(12083124)
3742476.8	0.55682m(12103024)	0.50931m(12103024)	0.43300m(12103024)	0.38121 (12111924)	0.35811 (12111924)
3742596.1	0.61139m(12103024)	0.54702 (12111924)	0.48356 (12111924)	0.42015 (12111924)	0.37877 (12111924)
3742715.4	0.71105 (12111924)	0.61736 (12111924)	0.50478 (12111924)	0.42806 (12111924)	0.37443 (12111924)
3742834.7	0.78783 (12111924)	0.63497 (12111924)	0.49534 (12111924)	0.42876m(12111424)	0.38012m(12111424)
3742954.0	0.82012 (12111924)	0.61254m(12111424)	0.53726m(12111424)	0.45724m(12111424)	0.38000m(12111424)
3743073.3	0.84656m(12111424)	0.70809m(12111424)	0.57301m(12111424)	0.44864m(12111424)	0.34741m(12111424)
3743192.6	0.95261m(12111424)	0.69595m(12111424)	0.47898m(12111424)	0.38994 (12050924)	0.33975 (12050924)
3743311.9	0.99344 (12110624)	0.79749 (12050924)	0.65202 (12050924)	0.54928 (12050924)	0.47419 (12050924)
3743431.2	0.72453 (12121724)	0.53483 (12121724)	0.43194 (12052124)	0.39700 (12052124)	0.36020 (12012624)
3743550.5	0.55758 (12121724)	0.48388 (12121724)	0.40348 (12121724)	0.34974m(12072024)	0.30947 (12122724)
3743669.8	0.45630 (12112524)	0.41573 (12012224)	0.35353 (12012224)	0.30780 (12121724)	0.29451m(12072024)
3743789.1	0.38743 (12112524)	0.38174 (12112524)	0.34629 (12012224)	0.29666 (12012224)	0.23763 (12092724)
3743908.4	0.34228 (12071524)	0.33468 (12112524)	0.33168 (12112524)	0.29320 (12012224)	0.25355 (12012224)
3744027.7	0.30209 (12071524)	0.29476 (12071524)	0.29786 (12112524)	0.29343 (12112524)	0.25584 (12112524)
3744147.0	0.25937 (12071524)	0.26650 (12071524)	0.25432 (12071524)	0.26837 (12112524)	0.26274 (12112524)
3744266.3	0.21638 (12071524)	0.23488 (12071524)	0.23486 (12071524)	0.22703 (12112524)	0.24382 (12112524)

*** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL ***
    INCLUDING SOURCE(S):   JUVEM000   ,

*** NETWORK ID: RLPS4001 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM10   IN MICROGRAMS/M**3   **

Y-COORD (METERS)	X-COORD (METERS) 452997.80
3741880.3	0.28053 (12070724)
3741999.6	0.26373 (12012924)
3742118.9	0.26448m(12103024)
3742238.2	0.27964m(12083124)
3742357.5	0.30500 (12111924)
3742476.8	0.33826 (12111924)
3742596.1	0.34004 (12111924)
3742715.4	0.32664m(12111424)
3742834.7	0.32950m(12111424)
3742954.0	0.31139m(12111424)
3743073.3	0.27569 (12011924)
3743192.6	0.29916 (12050924)
3743311.9	0.41672 (12050924)
3743431.2	0.32496 (12012624)
3743550.5	0.26881m(12062924)
3743669.8	0.26098m(12072024)
3743789.1	0.23974m(12072024)
3743908.4	0.20361 (12092724)
3744027.7	0.21931 (12012224)
3744147.0	0.22783 (12112524)
3744266.3	0.23727 (12112524)

*** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL ***
    INCLUDING SOURCE(S):   JUVEM000   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM10   IN MICROGRAMS/M**3   **

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
452418.60	3743245.40	0.87177 (12050924)	452373.00	3743225.00	0.98082m (12111424)
452327.30	3743204.50	1.15272m (12111424)	452281.70	3743184.10	1.34432m (12111424)
452236.10	3743163.70	1.51804m (12111424)	452190.40	3743143.30	1.66520m (12111424)
452144.80	3743122.80	1.78548m (12111424)	452099.10	3743102.40	1.88559m (12111424)
452053.50	3743082.00	1.96636m (12111424)	452007.90	3743061.50	2.02774m (12111424)
451962.20	3743041.10	2.06830m (12111424)	451916.60	3743020.70	2.10819 (12111924)

451871.00 3743000.20 2.15909 (12111924) 451825.30 3742979.80 2.17721 (12111924)
451779.70 3742959.40 2.14892 (12111924) 451734.10 3742939.00 2.08651 (12122024)
451688.40 3742918.50 2.10710m (12122124) 451642.80 3742898.10 2.08671m (12122124)
451597.20 3742877.70 1.90639m (12122124) 451594.10 3742876.30 1.88786m (12122124)
451559.40 3742907.50 2.04447m (12122124) 451522.30 3742941.00 2.22048m (12122124)
451485.10 3742974.40 2.25713m (12122124) 451447.90 3743007.80 2.19527m (12122124)
451411.20 3743040.90 2.06155m (12122124) 451410.80 3743041.30 2.05987m (12122124)
451378.10 3743079.10 1.90681m (12122124) 451345.30 3743116.90 1.95760m (12102324)
451312.60 3743154.70 2.05846m (12102324) 451279.80 3743192.50 2.10907m (12102324)
451247.10 3743230.30 2.10338m (12102324) 451214.30 3743268.00 2.02067m (12102324)
451181.60 3743305.80 1.83627m (12102324) 451148.80 3743343.60 1.57016m (12102324)
451140.30 3743353.40 1.50725m (12102324) 451177.30 3743353.80 1.67718m (12102324)
451227.30 3743354.40 1.81589m (12102324) 451277.30 3743354.90 1.88290m (12102324)
451327.30 3743355.50 1.97053 (12121624) 451377.30 3743356.00 2.01524 (12121624)
451427.30 3743356.60 2.01968 (12121624) 451477.30 3743357.10 1.99721 (12121624)
451527.30 3743357.70 1.97815m (12013024) 451577.30 3743358.20 1.95985m (12013024)
451594.10 3743358.40 1.94937m (12013024) 451627.30 3743358.10 1.92738m (12013024)
451677.30 3743357.70 1.88208m (12013024) 451727.30 3743357.20 1.82673m (12013024)
451777.30 3743356.80 1.75988m (12013024) 451827.30 3743356.30 1.68288m (12013024)
451877.30 3743355.90 1.59515m (12013024) 451927.30 3743355.40 1.54390 (12112924)
451977.30 3743355.00 1.49843 (12112924) 452027.30 3743354.50 1.45963 (12121724)
452077.30 3743354.10 1.41914 (12121724) 452127.30 3743353.60 1.36704 (12121724)
452177.30 3743353.20 1.30141 (12121724) 452227.30 3743352.70 1.21914 (12121724)
452277.30 3743352.30 1.11653 (12121724) 452327.30 3743351.80 1.00893 (12121724)
452328.80 3743351.80 1.00432 (12121724) 452360.10 3743314.80 1.09307 (12110624)
452392.30 3743276.60 1.02870 (12050924) 452466.80 3743248.70 0.79629 (12050924)
452421.40 3743227.80 0.86336m (12111424) 452375.90 3743207.00 0.98659m (12111424)
452330.50 3743186.10 1.11699m (12111424) 452285.00 3743165.30 1.27459m (12111424)
452239.60 3743144.40 1.42708m (12111424) 452194.10 3743123.60 1.56231m (12111424)
452148.70 3743102.70 1.67302m (12111424) 452103.30 3743081.90 1.76251m (12111424)
452057.80 3743061.00 1.83134m (12111424) 452012.40 3743040.20 1.90282 (12111924)
451966.90 3743019.30 1.98235 (12111924) 451921.50 3742998.40 2.04370 (12111924)
451876.00 3742977.60 2.07927 (12111924) 451830.60 3742956.70 2.07659 (12111924)
451785.20 3742935.90 2.02314 (12111924) 451739.70 3742915.00 1.97347m (12122124)

*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): JUVEM000 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
451694.30	3742894.20	1.99800m	(12122124)	451648.80	3742873.30	1.94428m	(12122124)
451603.40	3742852.50	1.78569m	(12122124)	451575.80	3742839.80	1.64165m	(12122124)
451561.80	3742853.60	1.64436m	(12122124)	451526.10	3742888.60	1.76387m	(12122124)
451490.50	3742923.70	1.93991m	(12122124)	451454.80	3742958.70	1.99464m	(12122124)
451419.10	3742993.70	1.95382m	(12122124)	451386.30	3743026.00	1.85158m	(12122124)
451383.70	3743029.00	1.84265m	(12122124)	451350.80	3743066.70	1.70121m	(12122124)
451317.90	3743104.30	1.68735	(12120824)	451285.00	3743142.00	1.78260m	(12102324)
451252.10	3743179.60	1.83223m	(12102324)	451219.20	3743217.30	1.83079m	(12102324)
451186.30	3743254.90	1.76602m	(12102324)	451153.40	3743292.60	1.63550m	(12102324)
451120.50	3743330.30	1.43956m	(12102324)	451087.70	3743367.90	1.26921m	(12102324)
451077.10	3743380.00	1.21874m	(12102324)	451111.10	3743380.20	1.32878m	(12102324)
451161.10	3743380.40	1.49966m	(12102324)	451211.10	3743380.70	1.61065m	(12102324)
451261.10	3743380.90	1.71517	(12121624)	451311.10	3743381.20	1.81776	(12121624)
451361.10	3743381.40	1.86480	(12121624)	451411.10	3743381.70	1.87402	(12121624)
451461.10	3743381.90	1.85770	(12121624)	451511.10	3743382.20	1.82705	(12121624)
451561.10	3743382.50	1.79236	(12121624)	451611.10	3743382.70	1.76156m	(12013024)
451661.10	3743383.00	1.71655m	(12013024)	451711.10	3743383.20	1.66153m	(12013024)
451748.70	3743383.40	1.61370m	(12013024)	451761.10	3743383.30	1.59791m	(12013024)
451811.00	3743382.90	1.52806m	(12013024)	451861.00	3743382.40	1.46406	(12121624)
451911.00	3743382.00	1.39419	(12121624)	451961.00	3743381.60	1.34114	(12112924)
452011.00	3743381.10	1.33097	(12121724)	452061.00	3743380.70	1.30697	(12121724)
452111.00	3743380.30	1.26772	(12121724)	452161.00	3743379.90	1.21338	(12121724)
452211.00	3743379.40	1.14316	(12121724)	452261.00	3743379.00	1.06483	(12121724)
452311.00	3743378.60	0.99386	(12121724)	452330.50	3743378.40	0.94960	(12121724)
452352.60	3743357.40	0.91429	(12121724)	452388.80	3743322.90	0.96590	(12110624)

*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): JUVEM000 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
452425.10	3743288.40	0.97022	(12050924)	452461.30	3743254.00	0.82547	(12050924)
452548.20	3743228.80	0.62365	(12050924)	452525.50	3743218.40	0.61219	(12050924)
452502.80	3743207.90	0.68814m	(12111424)	452480.10	3743197.50	0.76080m	(12111424)
452457.30	3743187.00	0.82148m	(12111424)	452434.60	3743176.60	0.86690m	(12111424)
452411.90	3743166.20	0.90175m	(12111424)	452389.20	3743155.70	0.93462m	(12111424)
452366.50	3743145.30	0.97074m	(12111424)	452343.80	3743134.80	1.00648m	(12111424)
452321.00	3743124.40	1.04241m	(12111424)	452298.30	3743114.00	1.08859	(12111924)
452275.60	3743103.50	1.16481	(12111924)	452252.90	3743093.10	1.23548	(12111924)
452230.20	3743082.60	1.30103	(12111924)	452207.50	3743072.20	1.36247	(12111924)
452184.70	3743061.80	1.42070	(12111924)	452162.00	3743051.30	1.47531	(12111924)
452139.30	3743040.90	1.52708	(12111924)	452116.60	3743030.40	1.57573	(12111924)
452093.90	3743020.00	1.62150	(12111924)	452071.20	3743009.60	1.66412	(12111924)
452048.50	3742999.10	1.70306	(12111924)	452025.70	3742988.70	1.73877	(12111924)
452003.00	3742978.20	1.76965	(12111924)	451980.30	3742967.80	1.79577	(12111924)
451957.60	3742957.40	1.81592	(12111924)	451934.90	3742946.90	1.82857	(12111924)
451912.20	3742936.50	1.83319	(12111924)	451889.40	3742926.00	1.82773	(12111924)
451866.70	3742915.60	1.81128	(12111924)	451844.00	3742905.20	1.78203	(12111924)
451821.30	3742894.70	1.73759	(12111924)	451798.60	3742884.30	1.71272m	(12122124)
451775.90	3742873.80	1.73340m	(12122124)	451753.10	3742863.40	1.74578m	(12122124)
451730.40	3742853.00	1.74565m	(12122124)	451707.70	3742842.50	1.73065m	(12122124)
451685.00	3742832.10	1.70624m	(12122124)	451662.30	3742821.60	1.67806m	(12122124)
451639.60	3742811.20	1.63553m	(12122124)	451616.80	3742800.80	1.57140m	(12122124)
451594.10	3742790.30	1.49579m	(12122124)	451571.40	3742779.90	1.40911m	(12122124)
451548.70	3742769.50	1.31033m	(12122124)	451542.50	3742766.60	1.28189m	(12122124)
451529.30	3742779.10	1.26433m	(12122124)	451511.10	3742796.20	1.23129m	

(12122124)
451492.90 3742813.40 1.20437m (12122124) 451474.70 3742830.60 1.20383m
(12122124)
451456.60 3742847.70 1.24078m (12122124) 451438.40 3742864.90 1.30249m
(12122124)
451420.20 3742882.00 1.36170m (12122124) 451402.00 3742899.20 1.40276m
(12122124)
451383.90 3742916.40 1.42172m (12122124) 451365.70 3742933.50 1.41979m
(12122124)
451347.50 3742950.70 1.40184m (12122124) 451329.30 3742967.90 1.40657
(12010524)
451311.10 3742985.00 1.40717 (12010524) 451306.50 3742989.40 1.40573
(12010524)
451294.80 3743003.90 1.40420 (12010524) 451279.00 3743023.30 1.39106
(12010524)
451263.30 3743042.70 1.36658 (12010524) 451247.50 3743062.10 1.33090
(12010524)
451231.80 3743081.50 1.28517 (12010524) 451216.00 3743100.90 1.27581
(12120824)
451200.30 3743120.30 1.26131 (12120824) 451184.50 3743139.80 1.25260m
(12102324)
451168.80 3743159.20 1.26518m (12102324) 451153.00 3743178.60 1.27051m
(12102324)
451137.30 3743198.00 1.27031m (12102324) 451121.50 3743217.40 1.26432m
(12102324)
451105.80 3743236.80 1.25141m (12102324) 451090.00 3743256.20 1.22555m
(12102324)
451074.30 3743275.70 1.18530m (12102324) 451058.50 3743295.10 1.13747m
(12102324)
451042.80 3743314.50 1.09343m (12102324) 451027.00 3743333.90 1.05294m
(12102324)
451011.30 3743353.30 1.01400m (12102324) 450995.50 3743372.70 0.97544m
(12102324)
450979.80 3743392.20 0.93834m (12102324) 450964.00 3743411.60 0.90242m
(12102324)
450948.30 3743431.00 0.86812m (12102324) 450942.40 3743438.20 0.85556m
(12102324)
450958.10 3743438.10 0.88498m (12102324) 450983.10 3743437.90 0.93147m
(12102324)
451008.10 3743437.70 0.97681m (12102324) 451033.10 3743437.50 1.02108m
(12102324)
451058.10 3743437.30 1.06585m (12102324) 451083.10 3743437.10 1.11413m
(12102324)
451108.10 3743436.80 1.16777m (12102324) 451133.10 3743436.60 1.22100m
(12102324)
451158.10 3743436.40 1.26284m (12102324) 451183.10 3743436.20 1.28871m
(12102324)
451208.10 3743436.00 1.37087 (12121624) 451233.10 3743435.80 1.44088
(12121624)
451258.10 3743435.60 1.49444 (12121624) 451283.10 3743435.40 1.53398
(12121624)
451308.10 3743435.20 1.56205 (12121624) 451333.10 3743435.00 1.58068
(12121624)
451358.10 3743434.80 1.59142 (12121624) 451383.10 3743434.60 1.59546
(12121624)
451408.10 3743434.40 1.59389 (12121624) 451433.10 3743434.20 1.58782
(12121624)
451458.10 3743434.00 1.57848 (12121624) 451483.10 3743433.80 1.56694
(12121624)
451508.10 3743433.60 1.55397 (12121624) 451533.10 3743433.40 1.53978
(12121624)

*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): JUVEM000 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
451558.10	3743433.20	1.52407	(12121624)	451583.10	3743433.00	1.50664	(12121624)
451608.10	3743432.80	1.48726	(12121624)	451633.10	3743432.60	1.46589	(12121624)
451658.10	3743432.40	1.44272	(12121624)	451683.10	3743432.10	1.41853	(12121624)
451708.10	3743431.90	1.39265	(12121624)	451733.10	3743431.70	1.36579	(12121624)
451758.10	3743431.50	1.33805	(12121624)	451783.10	3743431.30	1.30940	(12121624)
451808.10	3743431.10	1.27963	(12121624)	451833.10	3743430.90	1.24843	(12121624)
451858.10	3743430.70	1.22148	(12100524)	451883.10	3743430.50	1.19890	(12100524)
451908.10	3743430.30	1.17446	(12100524)	451933.10	3743430.10	1.14821	(12100524)
451958.10	3743429.90	1.11976	(12100524)	451983.10	3743429.70	1.08971	(12121724)
452008.10	3743429.50	1.08831	(12121724)	452033.10	3743429.30	1.08346	(12121724)
452058.10	3743429.10	1.07491	(12121724)	452083.10	3743428.90	1.06264	(12121724)
452108.10	3743428.70	1.04689	(12121724)	452133.10	3743428.50	1.02818	(12121724)
452158.10	3743428.30	1.00749	(12121724)	452183.10	3743428.10	0.98622	(12121724)
452208.10	3743427.90	0.96579	(12121724)	452233.10	3743427.70	0.94680	(12121724)
452258.10	3743427.50	0.92816	(12121724)	452283.10	3743427.20	0.90664	(12121724)
452308.10	3743427.00	0.87526	(12121724)	452333.10	3743426.80	0.83267	(12121724)
452358.10	3743426.60	0.78660	(12121724)	452362.10	3743426.60	0.77933	(12121724)
452360.40	3743423.30	0.78833	(12121724)	452372.40	3743410.90	0.78565	(12121724)
452389.70	3743392.90	0.76983	(12121724)	452407.10	3743374.90	0.73297	(12121724)
452424.50	3743356.90	0.75322	(12110624)	452441.80	3743339.00	0.80292	(12110624)
452459.20	3743321.00	0.84381	(12050924)	452476.60	3743303.00	0.86597	(12050924)
452493.90	3743285.00	0.84246	(12050924)	452511.30	3743267.00	0.78419	(12050924)
452528.70	3743249.00	0.70952	(12050924)	452546.00	3743231.00	0.63287	(12050924)
452719.50	3743202.20	0.42834	(12050924)	452628.70	3743160.40	0.53212m	(12111424)
452537.80	3743118.60	0.69278m	(12111424)	452447.00	3743076.80	0.78132m	(12111424)
452356.10	3743035.00	0.89415	(12111924)	452265.30	3742993.20	1.10356	(12111924)
452174.40	3742951.50	1.28153	(12111924)	452083.60	3742909.70	1.40381	(12111924)
451992.70	3742867.90	1.43436	(12111924)	451901.90	3742826.10	1.32163	(12111924)
451811.00	3742784.30	1.36021m	(12122124)	451720.20	3742742.50	1.34694m	

(12122124)
451629.30 3742700.70 1.24086m (12122124) 451538.50 3742658.90 1.03299m
(12122124)
451494.30 3742638.60 0.91503m (12122124) 451460.50 3742677.30 0.87786m
(12122124)
451394.80 3742752.70 0.83717m (12111424) 451329.10 3742828.10 0.95501
(12010524)
451263.40 3742903.50 1.12922 (12010524) 451197.70 3742978.90 1.16655
(12010524)
451132.00 3743054.20 1.04841 (12010524) 451066.30 3743129.60 0.97808
(12120824)
451000.60 3743205.00 0.85354m (12102324) 450934.90 3743280.40 0.77158
(12102424)
450869.20 3743355.80 0.67967m (12102324) 450803.50 3743431.20 0.61255m
(12102324)
450737.80 3743506.50 0.56183m (12102324) 450703.10 3743546.30 0.53863m
(12102324)
450750.40 3743545.80 0.58829m (12102324) 450850.40 3743544.80 0.68268m
(12102324)
450950.30 3743543.90 0.75264m (12102324) 451050.30 3743542.90 0.85485m
(12102324)
451150.30 3743541.90 1.04454 (12121624) 451250.30 3743540.90 1.17868
(12121624)

*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
***

INCLUDING SOURCE(S): JUVEM000 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
451350.30	3743539.90	1.21749	(12121624)	451450.30	3743538.90	1.19199	(12121624)
451550.30	3743537.90	1.13783	(12121624)	451650.30	3743537.00	1.05866	(12121624)
451750.30	3743536.00	0.95370	(12121624)	451850.30	3743535.00	0.88342	(12100524)
451950.30	3743534.00	0.83015	(12071524)	452050.30	3743533.00	0.80316	(12071524)
452150.30	3743532.00	0.72861	(12071524)	452250.30	3743531.00	0.68916	(12121724)
452350.30	3743530.00	0.61505	(12121724)	452395.30	3743529.60	0.58271	(12121724)
452433.50	3743491.40	0.59976	(12121724)	452434.20	3743490.70	0.59985	(12121724)
452504.50	3743419.60	0.54272	(12121724)	452574.80	3743348.50	0.62952	(12050924)
452645.10	3743277.40	0.63385	(12050924)	452715.40	3743206.30	0.43976	(12050924)
453238.90	3743099.60	0.22299	(12041924)	453170.50	3743068.70	0.23500	(12011924)
453102.20	3743037.90	0.25166	(12011924)	453033.80	3743007.00	0.27654m	(12111424)
452965.50	3742976.20	0.32376m	(12111424)	452897.10	3742945.30	0.36858m	(12111424)
452828.70	3742914.50	0.40847m	(12111424)	452760.40	3742883.60	0.44046m	(12111424)

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): JUVEM000 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM10 IN MICROGRAMS/M**3 **

452692.00	3742852.80	0.45963m (12111424)	452623.60	3742821.90	0.50571 (12111924)
452555.30	3742791.10	0.58193 (12111924)	452486.90	3742760.20	0.65564 (12111924)
452418.60	3742729.40	0.70138 (12111924)	452350.20	3742698.50	0.71952 (12111924)
452281.80	3742667.70	0.71886m (12103024)	452213.50	3742636.80	0.74915m (12103024)
452145.10	3742606.00	0.73558m (12103024)	452076.80	3742575.10	0.72474m (12101424)
452008.40	3742544.30	0.72095 (12120424)	451940.00	3742513.40	0.67722 (12120424)
451871.70	3742482.60	0.72639m (12122124)	451803.30	3742451.70	0.74820m (12122124)
451735.00	3742420.90	0.71881m (12122124)	451666.60	3742390.00	0.67050m (12122124)
451598.20	3742359.20	0.63448m (12122124)	451529.90	3742328.30	0.61252m (12122124)
451461.50	3742297.50	0.58705m (12122124)	451393.10	3742266.60	0.54512m (12122124)
451360.50	3742251.90	0.52000m (12122124)	451336.90	3742283.20	0.51220m (12122124)
451291.80	3742343.10	0.48167m (12122124)	451246.70	3742403.00	0.50426m (12111424)
451201.60	3742462.90	0.52578m (12111424)	451156.50	3742522.80	0.50720m (12111424)
451111.30	3742582.70	0.48354 (12112024)	451066.20	3742642.70	0.56198 (12010524)
451021.10	3742702.60	0.63403 (12010524)	450976.00	3742762.50	0.66204 (12010524)
450930.90	3742822.40	0.67687 (12010524)	450885.70	3742882.30	0.66950 (12010524)
450840.60	3742942.20	0.62216 (12010524)	450795.50	3743002.10	0.62679 (12120824)
450750.40	3743062.00	0.66385 (12120824)	450705.30	3743121.90	0.61553 (12120824)
450660.10	3743181.80	0.49157m (12011124)	450615.00	3743241.80	0.49059m (12011124)
450569.90	3743301.70	0.50111 (12102424)	450524.80	3743361.60	0.46502 (12102424)
450479.70	3743421.50	0.37766 (12102424)	450434.50	3743481.40	0.31419 (12102924)
450389.40	3743541.30	0.29314m (12102324)	450344.30	3743601.20	0.28624m (12102324)
450299.20	3743661.10	0.28206m (12102324)	450254.10	3743721.00	0.27946m (12102324)
450208.90	3743781.00	0.27715m (12102324)	450163.80	3743840.90	0.27408m (12102324)
450153.70	3743854.30	0.27320m (12102324)	450211.90	3743853.40	0.29630m (12102324)
450286.90	3743852.30	0.32391m (12102324)	450361.90	3743851.10	0.34604m (12102324)
450436.80	3743850.00	0.35998m (12102324)	450511.80	3743848.80	0.36560m (12102324)

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
450586.80	3743847.70	0.36638m	(12102324)	450661.80	3743846.50	0.40174	(12121624)
450736.80	3743845.40	0.46016	(12121624)	450811.80	3743844.20	0.51144	(12121624)
450886.80	3743843.10	0.55733	(12121624)	450961.80	3743841.90	0.60295	(12121624)
451036.80	3743840.80	0.64629	(12121624)	451111.80	3743839.70	0.67282	(12121624)
451186.80	3743838.50	0.67917	(12121624)	451261.70	3743837.40	0.67142	(12121624)
451336.70	3743836.20	0.65099	(12121624)	451411.70	3743835.10	0.61929	(12121624)
451486.70	3743833.90	0.57845	(12121624)	451561.70	3743832.80	0.55228m	(12013024)
451636.70	3743831.60	0.52761m	(12013024)	451711.70	3743830.50	0.51051	(12072324)
451786.70	3743829.30	0.48178	(12072324)	451861.70	3743828.20	0.45304	(12091624)
451936.70	3743827.00	0.41978	(12091624)	452011.70	3743825.90	0.40865	(12071524)
452086.60	3743824.70	0.41754	(12071524)	452161.60	3743823.60	0.40908	(12071524)
452236.60	3743822.50	0.39358	(12071524)	452311.60	3743821.30	0.38340	(12071524)
452386.60	3743820.20	0.37037	(12071524)	452461.60	3743819.00	0.37381	(12112524)
452536.60	3743817.90	0.36898	(12112524)	452540.80	3743817.80	0.36829	(12112524)
452590.10	3743767.00	0.36257	(12012224)	452642.40	3743713.30	0.35219	(12012224)
452694.70	3743659.50	0.33023	(12121724)	452747.00	3743605.70	0.33877m	(12072024)
452799.20	3743551.90	0.32452	(12122724)	452851.50	3743498.10	0.31866m	(12062924)
452903.80	3743444.40	0.34306	(12012624)	452956.10	3743390.60	0.36541	(12050924)
453008.30	3743336.80	0.40596	(12050924)	453060.60	3743283.00	0.38238	(12050924)
453112.90	3743229.20	0.31393	(12050924)	453165.20	3743175.50	0.23269	(12050924)
453217.40	3743121.70	0.22689	(12041924)				

*** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): JUVEM000 ,

*** SENSITIVE DISCRETE RECEPTOR POINTS ***

** CONC OF PM10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
451808.80	3743414.00	1.36268	(12121624)	451611.10	3743386.10	1.73689m	(12013024)

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       451395.10   3743364.60        1.97412  (12121624)               451274.70   3743360.30        1.83894
(12121624)
       451170.50   3743172.20        1.32469m (12102324)               451376.80   3742977.70        1.63590m
(12122124)
 *** AERMOD - VERSION  18081 ***   ***  Latitude PM10 Total Construction Emissions                          ***
     05/07/19
 *** AERMET - VERSION  14134 ***   ***                                                                      ***
   12:58:34

   PAGE  30
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL

                                          *** THE SUMMARY OF HIGHEST 24-HR RESULTS ***


                                  ** CONC OF PM10     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       2.49682m ON 12102324: AT (  451418.30,  3743192.60,     0.00,     0.00,
0.00)  GC  RLPS4001


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
 *** AERMOD - VERSION  18081 ***   ***  Latitude PM10 Total Construction Emissions                          ***
     05/07/19
 *** AERMET - VERSION  14134 ***   ***                                                                      ***
   12:58:34

   PAGE  31
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            0 Warning Message(s)
 A Total of         1916 Informational Message(s)

 A Total of         8784 Hours Were Processed

 A Total of            3 Calm Hours Identified

 A Total of          468 Missing Hours Identified (  5.33 Percent)


    ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


    ********   WARNING MESSAGES   ********
              ***  NONE  ***


    ***********************************
    *** AERMOD Finishes Successfully ***
    ***********************************
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