APPENDIX F - CONSTRUCTION-BASED HEALTH RISK ASSESSMENT

Camarillo Springs

Construction-Based Health Risk Assessment Report
City of Camarillo, CA

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I. Introduction and Setting

A. Purpose and Objectives

This study was performed to address the possibility of cancer risk from construction-related diesel air emissions. The project is proposed age-restricted (55+) community and involves the reconfiguration of the existing golf course, as such, would not be a source of operational toxic air contaminants (TACs).

The objectives of the study include:

- discussion of cancer risk thresholds of significance
- analysis of the cancer risk from construction diesel emissions
- recommendations for mitigation measures

The City of Camarillo is the lead agency in accordance with the California Environmental Quality Act authorizing legislation. Although this health risk assessment is a technical report, every effort has been made to write the report clearly and concisely. To assist the reader with terms unique to air quality/health risk, a definition of terms has been provided in Appendix A.

B. Project Location

The proposed project is located at 791 Camarillo Springs Road, within the City of Camarillo, California. A vicinity map showing the project location is provided on Figure 1.

C. Project Description

The Camarillo Springs Project provides for the development of 23.51 acres of active senior residential homes, a 7.6-acre Community Park which would include a dog park, passive recreation area, walking trails and open space corridors, ~141 acres of reconfigured 12-hole golf course. The project will also revitalize the Clubhouse and grounds. Figure 2 illustrates the site plan.

D. Sensitive Receptors in Project Vicinity

Those who are sensitive to air pollution include children, the elderly, and persons with preexisting respiratory or cardiovascular illness. For purposes of CEQA, the Ventura County Air Pollution Control District (VCAPCD) defines a sensitive receptor as a land use where such people are likely to reside or spend a substantial amount of time include residences, schools, playgrounds, day care centers, job sites, retirement homes, convalescent homes, and hospitals.

Several sensitive land use areas are present surrounding the project site, including; existing residential dwelling units to the south and to the east of the project site.

E. Executive Summary of Findings

The analysis shows that without any mitigation beyond the use of construction equipment with Tier 3 engines already called for in the Air Quality analysis, infant receptors (0-2 years) closest to project boundary

(construction footprint) would experience the highest levels of construction-related diesel emissions, resulting in a cancer risk of 23.26 in a million; however, with incorporation of mitigation measure, MM – 1, that requires construction equipment have Tier 3 engines with diesel oxidation catalysts and level 3 diesel particulate filters that meet the latest CARB best available control technology, none of the nearby, sensitive receptors would be exposed to elevated cancer risk from construction-related diesel emissions in excess of 10 in a million.

As the project's construction-related cancer risk can be mitigated down to less than 10 in a million with implementation of MM - 1, it is concluded that the closest receptors will not be impacted by construction-related TAC emissions. Impacts are less than significant with mitigation.

The construction health risk impacts for non-cancer related impacts are less than 1.0; therefore, they are also considered to be less significant.

Figure 1

Project Location Map



Figure 2

Site Plan



New Urban West

LAND CONCERN
LANDSCAPE ARCHITECTURE
1750 DEERE AVE, SANTA ANA, CA 92705

PASCUZZO/PATE GOLF DESIGN

CAMARILLO SPRINGS
Camarillo, CA

Overall Plan

0 100 200 400
SCALE: 1" = 200'
July 2019

II. Pollutants

Pollutants are generally classified as either criteria pollutants or non-criteria pollutants. Federal ambient air quality standards have been established for criteria pollutants, whereas no ambient standards have been established for non-criteria pollutants. For some criteria pollutants, separate standards have been set for different periods. Most standards have been set to protect public health. For some pollutants, standards have been based on other values (such as protection of crops, protection of materials, or avoidance of nuisance conditions). A summary of federal and state ambient air quality standards is provided in the Regulatory Framework section. As this analysis does not analyze the impact from criteria pollutants, rather it focuses on the health risk from diesel particulate matter (DPM) emissions. DPM is considered a toxic air contaminant.

1. Toxic Air Contaminants

A toxic air contaminant (TAC) is defined as an air pollutant which may cause or contribute to an increase in mortality or serious illness, or which may pose a hazard to human health. To address health risks associated with TAC emissions, the ARB has adopted an aggressive risk reduction plan to achieve reductions in health risks associated with TAC emissions (ARB 2000). TACs are usually present in minute quantities in the ambient air. However, their high toxicity or health risk may pose a threat to public health even at very low concentrations. For those TACs that may cause cancer, there is no concentration that does not present some risk. In other words, there is no threshold level below which adverse health impacts are not expected to occur. This contrasts with the criteria pollutants for which acceptable levels of exposure can be determined and for which the State and federal governments have set ambient air quality standards. The majority of the estimated health risk from TACs can be attributed to a relatively few compounds, the most important being PM from diesel-fueled engines and DPM. In addition to DPM, benzene and 1,3-butadiene are also significant contributors to overall ambient public health risk in California.

The majority of DPM is small enough to be inhaled into the lungs. Most inhaled particles are subsequently exhaled, but some deposit on the lung surface. Although particles the size of DPM can deposit throughout the lung, the largest fraction deposits in the deepest regions of the lungs where the lung is most susceptible to injury.

In 1998, the California Air Resources Board (CARB) identified DPM as a toxic air contaminant based on published evidence of a relationship between diesel exhaust exposure and lung cancer and other adverse health effects. In 2012, additional studies on the cancer-causing potential of diesel exhaust published since CARB's determination led the International Agency for Research on Cancer (IARC, a division of the World Health Organization) to list diesel engine exhaust as "carcinogenic to humans". This determination is based primarily on evidence from occupational studies that show a link between exposure to DPM and lung cancer induction, as well as death from lung cancer.

Both VCAPCD and ARB have monitoring networks in Ventura County that measure ambient concentrations of certain TACs that are associated with important health-related effects, and are present in appreciable concentrations in the SCAB. The VCAPCD uses this information to determine health risks for a particular area. The ARB publishes annual Statewide, air basin, and location-specific summaries of the concentration

levels of several TACs and their resulting cancer risks[1]. The most recent summary is the ARB Air Quality Almanac for 2013. The Almanac presents the relevant concentration and cancer risk data for the ten TACs that pose the most substantial health risk in California based on available data. These TACs are: acetaldehyde, benzene, 1,3-butadiene, carbon tetrachloride, hexavalent chromium, para-dichlorobenzene, formaldehyde, methylene chloride, and perchloroethylene. DPM is not directly measured but is indirectly estimated based on fine particulate matter measurements and special studies on the chemical speciation of ambient fine particulate data along with receptor modeling techniques. ARB estimates that 78 percent of the known statewide cancer risks are from these top 10 outdoor air toxics in addition to DPM.

Diesel engines emit a complex mixture of pollutants, including very small carbon particles, or "soot" coated with numerous organic compounds, known as diesel particulate matter (DPM). Diesel exhaust also contains more than 40 cancer-causing substances, most of which are readily adsorbed onto the soot particles. In 1998, California identified DPM as a toxic air contaminant (TAC) based on its potential to cause cancer. Other agencies, such as the National Toxicology Program, the U.S. Environmental Protection Agency and the National Institute of Occupational Safety and Health, concluded that exposure to diesel exhaust likely causes cancer. The most recent assessment (2012) came from the World Health Organization's International Agency for Research on Cancer (IARC). IARC's extensive literature review led to the conclusion that diesel engine exhaust is "carcinogenic to humans," thereby substantiating and further strengthening California's earlier TAC determination.

Diesel engine emissions are believed to be responsible for about 70% of California's estimated known cancer risk attributable to toxic air contaminants. Also, DPM comprises about 8% of outdoor fine particulate matter (PM2.5), which is a known health hazard. As a significant fraction of PM2.5, DPM contributes to numerous health impacts that have been attributed to particulate matter exposure, including increased hospital admissions, particularly for heart disease, but also for respiratory illnesses, and even premature death. ARB estimates that DPM contributes to approximately 1,400 (95% confidence interval: 1,100-1,800) premature deaths from cardiovascular disease annually in California. Additionally, exposure to diesel exhaust may contribute to the onset of new allergies; a clinical study of human subjects has shown that diesel exhaust particles, in combination with potential allergens, may actually be able to produce new allergies that did not exist previously.

Several factors exacerbate the health risks of diesel PM exposure:

- Diesel PM is often emitted close to people so high exposures occur
- Diesel PM is in a size range that readily deposits in the lung
- Diesel PM contains compounds known to damage DNA and cause cancer

Additionally, diesel PM pollution can affect the environment:

- Diesel PM causes visibility reduction
- Diesel black carbon (soot) is a potent contributor to global warming

[1] Cancer risk is expressed as a probability of an individual out of a population of one million contracting cancer via a continuous exposure to TACs over a 30-year lifetime.

2. Asbestos

Asbestos is listed as a TAC by the ARB and as a Hazardous Air Pollutant by the EPA. Asbestos occurs naturally in mineral formations and crushing or breaking these rocks, through construction or other means, can release asbestiform fibers into the air. Asbestos emissions can result from the sale or use of asbestos-containing materials, road surfacing with such materials, grading activities, and surface mining. The risk of disease is dependent upon the intensity and duration of exposure. When inhaled, asbestos fibers may remain in the lungs and with time may be linked to such diseases as asbestosis, lung cancer, and mesothelioma. The nearest likely locations of naturally occurring asbestos, as identified in the General Location Guide for Ultramafic Rocks in California prepared by the California Division of Mines and Geology, is located in Santa Barbara County. The nearest historic asbestos mine to the project site, as identified in the Reported Historic Asbestos Mines, Historic Asbestos Prospects, and Other Natural Occurrences of Asbestos in California, prepared by U.S. Geological Survey, is located at Asbestos Mountain within the San Jacinto Mountain range and approximately 150 miles east of the project site. Due to these distances to the nearest natural occurrences of asbestos, neither the project site nor any fill material imported to the site is likely to contain asbestos.

III. Air Quality Management

A. Regulatory Setting

The proposed project is addressed through the efforts of various international, federal, state, regional, and local government agencies. These agencies work jointly, as well as individually, to improve air quality through legislation, regulations, planning, policy-making, education, and a variety of programs. The agencies responsible for improving the air quality are discussed below.

1. Federal - United States Environmental Protection Agency

The United States Environmental Protection Agency (EPA) is responsible for setting and enforcing the National Ambient Air Quality Standards (NAAQS) for atmospheric pollutants. It regulates emission sources that are under the exclusive authority of the federal government, such as aircraft, ships, and certain locomotives. The National Ambient Air Quality Standards (NAAQS) pollutants were identified using medical evidence.

As part of its enforcement responsibilities, the EPA requires each state with federal nonattainment areas to prepare and submit a State Implementation Plan (SIP) that demonstrates the means to attain the national standards. The State Implementation Plan (SIP) must integrate federal, state, and local components and regulations to identify specific measures to reduce pollution, using a combination of performance standards and market-based programs within the timeframe identified in the State Implementation Plan (SIP).

2. State – California Air Resources Board and California Air Pollution Control Officers Association (CAPCOA).

The California Air Resources Board (CARB), which is a part of the California Environmental Protection Agency, is responsible for the coordination and administration of both federal and state air pollution control programs within California. In this capacity, the CARB conducts research, sets the California Ambient Air Quality Standards (CAAQS), compiles emission inventories, develops suggested control measures, provides oversight of local programs, and prepares the State Implementation Plan (SIP). In addition, the CARB establishes emission standards for motor vehicles sold in California, consumer products (e.g., hairspray, aerosol paints, and barbeque lighter fluid), and various types of commercial equipment. It also sets fuel specifications to further reduce vehicular emissions.

Diesel engines emit a complex mixture of air pollutants, including both gaseous and solid material. The solid material in diesel exhaust is known as DPM. More than 90% of DPM is less than 1 µm in diameter (about 1/70th the diameter of a human hair), and thus is a subset of particulate matter less than 2.5 microns in diameter (PM2.5). Most PM2.5 derives from combustion, such as use of gasoline and diesel fuels by motor vehicles, burning of natural gas to generate electricity, and wood burning. PM2.5 is the size of ambient particulate matter air pollution most associated with adverse health effects of the air pollutants that have ambient air quality standards. These health effects include cardiovascular and respiratory hospitalizations, and premature death. As a California statewide average, DPM comprises about 8% of PM2.5 in outdoor air, although DPM levels vary regionally due to the non-uniform distribution of sources throughout the state.

DPM is typically composed of carbon particles ("soot", also called black carbon, or BC) and numerous organic compounds, including over 40 known cancer-causing organic substances. Examples of these chemicals include polycyclic aromatic hydrocarbons, benzene, formaldehyde, acetaldehyde, acrolein, and 1,3-butadiene. Diesel exhaust also contains gaseous pollutants, including volatile organic compounds and oxides of nitrogen (NOx). NOx emissions from diesel engines are important because they can undergo chemical reactions in the atmosphere leading to formation of PM2.5 and ozone.

Most major sources of diesel emissions, such as ships, trains, and trucks operate in and around ports, rail yards, and heavily traveled roadways. These areas are often located near highly populated areas. Because of this, elevated DPM levels are mainly an urban problem, with large numbers of people exposed to higher DPM concentrations, resulting in greater health consequences compared to rural areas. A large fraction of personal exposure to DPM occurs during travel on roadways. Although Californians spend a relatively small proportion of their time in enclosed vehicles (about 7% for adults and teenagers, and 4% for children under 12), 30 to 55% of total daily DPM exposure typically occurs during the time people spend in motor vehicles.

As stated on page 2 of the California Air Pollution Control Officers Association (CAPCOA) *Health Risk Assessments for Proposed Land Use Projects* guidance document, "the guidance does not include how risk assessments for construction projects should be addressed in CEQA. As this is intended to be a 'living document', the risks near construction projects are expected to be included at a later time as the toxic emissions from construction activities are better quantified. State risk assessment policy is likely to change to reflect current science, and therefore this document will need modification as this occurs." (2009)

3. State – Office of Environmental Health Hazard Assessment (OEHHA)

According to OEHHA, local air pollution control districts sometimes use the risk assessment guidelines for the Hot Spots program in permitting decisions for short-term projects such as construction or waste site remediation. Frequently, the issue of how to address cancer risks from short-term projects arises.

Cancer potency factors are based on animal lifetime studies or worker studies where there is long-term exposure to the carcinogenic agent. There is considerable uncertainty in trying to evaluate the cancer risk from projects that will only last a small fraction of a lifetime. There are some studies indicating that dose rate changes the potency of a given dose of a carcinogenic chemical. In others words, a dose delivered over a short time period may have a different potency than the same dose delivered over a lifetime. The OEHHA's evaluation of the impact of early-in-life exposure has reduced some of the uncertainty in evaluating the cancer risk to the general population for shorter-term exposures, as it helps account for susceptibility to carcinogens by age at exposure.

4. Regional

The VCAPCD is the agency principally responsible for comprehensive air pollution control in Ventura County. To that end, as a regional agency, the VCAPCD works directly with the Southern California Association of Governments (SCAG), county transportation commissions, and local governments and cooperates actively with all federal and state agencies. VCAPCD defines a "sensitive receptor" as a land use where such people are likely to reside or spend a substantial amount of time include

residences, schools, playgrounds, day care centers, job sites, retirement homes, convalescent homes, and hospitals.

Ventura County Air Pollution Control District

The Project is located within the VCAPCD and is, therefore, subject to the rules and regulations of the VCAPCD. The VCAPCD has not established its own set of ambient air quality standards, and relies on the standards established by the ARB and the USEPA. The VCAPCD has, however, established health risk significance thresholds that it recommends to lead agencies in determining the health risk significance of new sources of air emissions under the California Environmental Quality Act.

In this regard, the VCAPCD has published a number of significance thresholds that apply to new projects operated within the VCAPCD. If the lead agency finds that a proposed project has the potential to exceed these health risk significance thresholds, the project would be considered to have a significant impact. These thresholds have been defined by VCAPCD based on scientific data the VCAPCD has obtained and factual data within the federal and State Clean Air Acts. The City of Camarillo has not adopted its own set of significance thresholds. However, since the project is located within the VCAPCD, the VCAPCD thresholds have been adopted for this project. The VCAPCD has defined thresholds for health risk in terms of cancer risk and non-cancer hazard.

From the perspective of this analysis, the emissions were evaluated in terms of impacts on air quality from the construction of the project. VCAPCD does not require any construction-based health risk assessments or have any recommendations on how to conduct a construction HRA for CEQA purposes at this time. In the absence of VCAPCD guidance, OEHHA recommendations for short-term projects can be followed. The VCAPCD Health Risk Significance Threshold is discussed below.

B. Thresholds

In addition to the thresholds established for criteria pollutants, the VCAPCD has also defined health risk thresholds. These thresholds are represented as a cancer risk and a non-cancer hazard to the public from exposures to TACs. Cancer risk represents the probability (in terms of risk per million individuals) that an individual would contract cancer resulting from exposure to TACs continuously over a lifetime exposure period of 30 years for sensitive receptors. Thus, an individual located in an area with a cancer risk of one would experience a one chance out of a population of one million of contracting cancer over a 30-year time period, assuming that individual lives in that area continuously for the entire 30-year time period.

TACs can also cause chronic (long-term) and acute (short-term) related non-cancer illnesses such as reproductive effects, respiratory effects, eye sensitivity, immune effects, kidney effects, blood effects, central nervous system effects, birth defects, or other adverse environmental effects. Risk characterization for non-cancer health hazards from TACs is expressed as a hazard index (HI). The HI is a ratio of the predicted concentration of the project's emissions to a concentration considered acceptable to public health professionals, termed the Reference Exposure Level (REL). The VCAPCD has established the following health risk thresholds.

- Lifetime probability of contracting cancer is greater than 10 in 1 million at the nearest sensitive receptor or off-site worker; and
- Ground-level concentrations of non-carcinogenic toxic air pollutants would result in a Hazard Index of 1.0 or greater.

IV. Construction Diesel Emissions Health Risk Assessment

The project is a residential project and will not be a source of operational toxic air contaminants. However, as the project is large, the City of Camarillo requested that a construction-based health risk assessment be conducted. Therefore, for informational and public disclosure purposes, a construction-based health risk assessment following the latest OEHHA guidance has been performed.

A health risk assessment requires the completion and interaction of four general steps:

1. Quantify project-generated TAC emissions.
2. Identify nearby ground-level receptor locations that may be affected by the emissions (including any special sensitive receptor locations such as residences, schools, hospitals, convalescent homes, and daycare centers).
3. Perform air dispersion modeling analyses to estimate ambient pollutant concentrations at each receptor location using project TAC emissions and representative meteorological data to define the transport and dispersion of those emissions in the atmosphere.
4. Characterize and compare the calculated health risks with the applicable health risk significance thresholds.

A. Construction Health Risk Assessment Assumptions

The U.S. Environmental Protection Agency (USEPA) AMS/EPA Regulatory Model (AERMOD) model, the air dispersion modeling method approved by the California Air Resources Board (CARB) for such assessments (USEPA 2006) was used to estimate concentrations of diesel particulate matter (DPM) from the construction of the project. The DPM construction emissions were estimated from Annual CalEEMod emissions from the air quality and greenhouse gas analysis for the project, and amount to weighted averages of 0.272615 tons per year of DPM (as PM_{10} exhaust) for 2021, 0.114189 tons for years 2022-2023, and 0.09603 tons per year of DPM for years 2024-2026 (see Table 1). The emissions were represented in the model as an area source equal to the size of the project's construction area (approximately 180 acres). An emission release height of 3.66 meters was also assumed, to account for the average emissions height from all pieces of construction equipment. Receptor locations where construction impacts were calculated focused on the residential receptors located adjacent to the project site. Meteorological data used in the model is from the closest monitoring station, the El Rio monitoring station, approximately 8.8 miles northwest of the project site.

Table 1: Construction-Based Emissions Factors[1]

Year	tons/yr of DPM	Duration
2021	0.272615385	1 yr exposure
2022-2023	0.114189423	2 year exposure
2024-2026	0.09603	3 year exposure

[1] Source: CalEEMod Annual Construction Emissions for the Camarillo Springs GPA 2017-2 DEIR, 4-5-2020.

B. Receptor Network

The assessment requires that a network of receptors be specified where the impacts can be computed at the various locations surrounding the project. Discrete receptors were mainly located at residential

locations close to the project boundary with a receptor located at the Camarillo Springs mobile home park community pool. Discrete receptors are identified as orange triangles and numbered 1 through 14. In addition, the identified sensitive receptors locations were supplemented by the specification of a modeling grid that extended around the proposed project to identify other potential locations of impact. See Figure 3 for details.

C. Dispersion Modeling

The next step in the assessment process utilizes the emissions inventory along with a mathematical air dispersion model and representative meteorological data to calculate impacts at the various receptor locations. The dispersion model used in this assessment is described below.

1. Model Selection

The assessment of air quality and health risk impacts from pollutant emissions from this project applied the USEPA AERMOD Model, which is the air dispersion model accepted by the SCAQMD for performing air quality impact analyses. AERMOD predicts pollutant concentrations from point, area, volume, line, and flare sources with variable emissions in terrain from flat to complex with the inclusion of building downwash effects from buildings on pollutant dispersion (as applicable). It captures the essential atmospheric physical processes and provides reasonable estimates over a wide range of meteorological conditions and modeling scenarios, as shown in Table 2:

Table 2: General Modeling Assumptions – AERMOD Model

Feature	Option Selected
Terrain processing	AERMAP-generated NED GEOTIFF 30 m
Regulatory dispersion options	Default
Land use	Urban
Coordinate system	UTM Zone 11 North
Building downwash	Included in calculations (as applicable)
Receptor height	0 meters above ground per SCAQMD AERMOD guidance
Meteorological data	VCAPCD El Rio Meteorological Data

2. Meteorological Data

Meteorological data from the VCAPCD El Rio station was selected for this modeling application. The meteorological input files were processed using AERMET program from Lakes Environmental. They are developed based on the three years data sets covering 1/1/2015 to 12/31/2017 (Figure 4 shows a Wind Rose for El Rio).

D. Estimation of Health Risks

Health risks from diesel particulate matter are twofold. First, diesel particulate matter is a carcinogen according to the State of California. Second, long-term chronic exposure to diesel particulate matter can cause health effects to the respiratory system. Each of these health risks is discussed below. As VCAPCD do not have their own formula for health risk calculations, to be conservative, South Coast Air Quality Management District (SCAQMD), formulae (based on the most-recent Office of Environmental Health Hazard Assessment guidance) were used as detailed below.

Figure 3

AERMOD Model Source and Receptor Placement



1. Cancer Risks

According to the *Risk Assessment Guidelines: Guidance Manual for Preparation of Health Risk Assessments*, released by the Office of Environmental Health Hazard Assessment (OEHHA) in February 2015 and formally adopted in March 2015, the residential inhalation dose for long-term cancer risk assessment should be calculated using the following formula:

[Dose-air (mg/(Kg-day)]*Cancer Potency*[1x10^{-6}] = Potential Cancer Risk

Where:
Cancer Potency Factor = 1.1
Dose-inh = (C¬air * DBR * A * EF * ED *ASF*FAH* 10-6) / AT

Where:
DBR [Daily breathing rate (L/kg body weight – day)] = 261 for adults, 572 for children, and 1,090 for infants, and 361 for 3rd trimester per SCAQMD Permit Application Package "M" Table 9.1 guidance.
A [Inhalation absorption factor] = 1
EF [Exposure frequency (days/year)] = 350
ED [Exposure duration (years)] = 30 for adults (for an individual who is an adult at opening year), 14 for children (from 2-16 years), 14 for adults (from 16-30 years), 2 for infants, and 1 for 3rd Trimester
ASF [Age sensitivity factor) = 10 for 3rd trimester to 2 years of age, 3 for 2 to 16 years of age, and 1 for 16 to 30 years of age
FAH [Fraction of time spent at home] = 1 for 3rd trimester to 2 years of age, 1 for 2 to 16 years of age, and 0.73 for 16 to 30 years of age
10^6 [Micrograms to milligrams conversion]
AT [Average time period over which exposure is averaged in days] = 25,550

As the project was to be constructed from 2021 to 2026 (less than five years total), only the impacts to the most sensitive groups, 3rd trimester, infants (0-2 years) and children were evaluated and the exposure frequency and duration were adjusted to correspond to the number of construction days/construction time as necessary (see Tables 3 through 6 for calculation details). The model run result for the most impacted group is shown below on Figure 5 (for infants 0-2 years). Complete model run results for all groups analyzed are available in Appendix B. Tables 3, 4 and 6 provide a summary of the unmitigated calculated construction diesel emission concentrations at the nearest fetus (3rd trimester), infant (0-2 years), and child (2+ years) receptors respectively. Table 3 shows that 3rd trimester exposure will not result in a cancer risk in excess of 10 in a million.

<Table 3, next page>

Table 3: Carcinogenic Risks and Non-Carcinogenic Hazards 3rd Trimester Exposure Scenario (0.25 Years) 2021

Receptor ID (a)	Maximum Concentration (ug/m3) (b)	Maximum Concentration (mg/m3) (c)	Weight Fraction (d)	Contaminant (e)	Carcinogenic Hazards CPF (mg/kg/day) (f)	Carcinogenic Hazards RISK (per million) (g)	Noncarcinogenic Hazards REL (ug/m3) (h)	Noncarcinogenic Hazards RfD (mg/kg/day) (i)	Index (j)
1	0.23793	2.4E-04	1.00E+00	DPM	1.1E+00	2.40	5.0E+00	1.4E-03	0.0476
2	0.2413	2.4E-04	1.00E+00	DPM	1.1E+00	2.44	5.0E+00	1.4E-03	0.0483
3	0.04578	4.6E-05	1.00E+00	DPM	1.1E+00	0.46	5.0E+00	1.4E-03	0.0092
4	0.32275	3.2E-04	1.00E+00	DPM	1.1E+00	3.26	5.0E+00	1.4E-03	0.0646
5	0.06247	6.2E-05	1.00E+00	DPM	1.1E+00	0.63	5.0E+00	1.4E-03	0.0125
pool_6	0.21106	2.1E-04	1.00E+00	DPM	1.1E+00	2.13	5.0E+00	1.4E-03	0.0422
7	0.31159	3.1E-04	1.00E+00	DPM	1.1E+00	3.15	5.0E+00	1.4E-03	0.0623
8	0.22745	2.3E-04	1.00E+00	DPM	1.1E+00	2.30	5.0E+00	1.4E-03	0.0455
9	0.04213	4.2E-05	1.00E+00	DPM	1.1E+00	0.43	5.0E+00	1.4E-03	0.0084
10	0.26034	2.6E-04	1.00E+00	DPM	1.1E+00	2.63	5.0E+00	1.4E-03	0.0521
11	0.06248	6.2E-05	1.00E+00	DPM	1.1E+00	0.63	5.0E+00	1.4E-03	0.0125
12	0.01618	1.6E-05	1.00E+00	DPM	1.1E+00	0.16	5.0E+00	1.4E-03	0.0032
13	0.00864	8.6E-06	1.00E+00	DPM	1.1E+00	0.09	5.0E+00	1.4E-03	0.0017
14	0.03059	3.1E-05	1.00E+00	DPM	1.1E+00	0.31	5.0E+00	1.4E-03	0.0061

Note: Exposure factors used to calculate TAC intake for Short-term Exposure

Exposure Frequency (days/year)	260	(# of construction days in 2021)
Exposure Duration (years)	0.25	
Daily Breathing Rate	361	
Age Sensitivity Factor	10	
Fraction of Time At Home (FAH)	1	
Averaging Time $_{(cancer)}$ (days)	25550	
Averaging Time $_{(non\text{-}cancer)}$ (days)	91.25	

E= 10^X, i.e. E-02 = 10^{-2}

However, Table 4 shows that infant receptors (0-2 years) closest to the project boundary, next to the footprint where construction (including grading, infrastructure, building construction, paving and architectural coating) will occur, would experience the highest levels of construction-related diesel emissions, resulting in a maximum cancer risk of 23.26 in a million. The air quality study for the project already shows that construction equipment on-site will be required to have Tier 3 engines; however as emissions of diesel particulate matter from construction equipment will still cause an exceedance of the 10 in a million TAC threshold, additional mitigation is required. Table 5 shows that with incorporation of mitigation (MM – 1) which require all construction equipment to have Tier 3 or better engines with diesel oxidation catalysts, level 3 diesel particulate filters that reduce particulate matter by at least 85 percent and meet the latest CARB best available control technology; the cancer risk to infants will have decreased at all receptor locations to less than 10 in a million. Table 6 shows that the exposure to children 2+ years for the remaining duration of construction will not result in a cancer risk in excess of 10 in a million.

<Table 4, 5 and 6, next pages>

Table 4. Carcinogenic Risks and Non-Carcinogenic Hazards Infant Exposure Scenario (2 Year) 2022-2023

Receptor ID (a)	Maximum Concentration (ug/m3) (b)	Maximum Concentration (mg/m3) (c)	Weight Fraction (d)	Contaminant (e)	Carcinogenic Hazards CPF (mg/kg/day) (f)	Carcinogenic Hazards RISK (per million) (g)	Noncarcinogenic Hazards REL (ug/m3) (h)	Noncarcinogenic Hazards RfD (mg/kg/day) (i)	Index (j)
1	0.0996	1.0E-04	1.00E+00	DPM	1.1E+00	**17.13**	5.0E+00	1.4E-03	0.0199
2	0.10107	1.0E-04	1.00E+00	DPM	1.1E+00	**17.39**	5.0E+00	1.4E-03	0.0202
3	0.01918	1.9E-05	1.00E+00	DPM	1.1E+00	3.30	5.0E+00	1.4E-03	0.0038
4	0.13519	1.4E-04	1.00E+00	DPM	1.1E+00	**23.26**	5.0E+00	1.4E-03	0.0270
5	0.0216	2.2E-05	1.00E+00	DPM	1.1E+00	3.72	5.0E+00	1.4E-03	0.0043
pool_6	0.0884	8.8E-05	1.00E+00	DPM	1.1E+00	**15.21**	5.0E+00	1.4E-03	0.0177
7	0.13051	1.3E-04	1.00E+00	DPM	1.1E+00	**22.45**	5.0E+00	1.4E-03	0.0261
8	0.09527	9.5E-05	1.00E+00	DPM	1.1E+00	**16.39**	5.0E+00	1.4E-03	0.0191
9	0.01764	1.8E-05	1.00E+00	DPM	1.1E+00	3.03	5.0E+00	1.4E-03	0.0035
10	0.10905	1.1E-04	1.00E+00	DPM	1.1E+00	**18.76**	5.0E+00	1.4E-03	0.0218
11	0.02617	2.6E-05	1.00E+00	DPM	1.1E+00	4.50	5.0E+00	1.4E-03	0.0052
12	0.00677	6.8E-06	1.00E+00	DPM	1.1E+00	1.16	5.0E+00	1.4E-03	0.0014
13	0.00362	3.6E-06	1.00E+00	DPM	1.1E+00	0.62	5.0E+00	1.4E-03	0.0007
14	0.01281	1.3E-05	1.00E+00	DPM	1.1E+00	2.20	5.0E+00	1.4E-03	0.0026

Note: Exposure factors used to calculate TAC intake for Short-term Exposure

Exposure Frequency (days/year)	260	(construction days/year)
Exposure Duration (years)	1.41	(total construction time in 2022 and 2023)
Daily Breathing Rate	1090	
Age Sensitivity Factor	10	
Fraction of Time At Home (FAH)	1	
Averaging Time $_{(cancer)}$ (days)	25550	
Averaging Time $_{(non\text{-}cancer)}$ (days)	514.65	

E= 10^X, i.e. E-02 = 10^{-2}

Table 5. Mitigated Carcinogenic Risks and Non-Carcinogenic Hazards Infant Exposure Scenario (2 Year) 2022-2023

Receptor ID (a)	Maximum Concentration (ug/m3) (b)	Maximum Concentration (mg/m3) (c)	Weight Fraction (d)	Contaminant (e)	Carcinogenic Hazards CPF (mg/kg/day) (f)	Carcinogenic Hazards RISK (per million) (g)	Noncarcinogenic Hazards REL (ug/m3) (h)	Noncarcinogenic Hazards RfD (mg/kg/day) (i)	Noncarcinogenic Hazards Index (j)
1	0.01494	1.5E-05	1.00E+00	DPM	1.1E+00	2.57	5.0E+00	1.4E-03	0.0030
2	0.01516	1.5E-05	1.00E+00	DPM	1.1E+00	2.61	5.0E+00	1.4E-03	0.0030
3	0.00288	2.9E-06	1.00E+00	DPM	1.1E+00	0.49	5.0E+00	1.4E-03	0.0006
4	0.02028	2.0E-05	1.00E+00	DPM	1.1E+00	3.49	5.0E+00	1.4E-03	0.0041
5	0.00324	3.2E-06	1.00E+00	DPM	1.1E+00	0.56	5.0E+00	1.4E-03	0.0006
pool_6	0.01326	1.3E-05	1.00E+00	DPM	1.1E+00	2.28	5.0E+00	1.4E-03	0.0027
7	0.01958	2.0E-05	1.00E+00	DPM	1.1E+00	3.37	5.0E+00	1.4E-03	0.0039
8	0.01429	1.4E-05	1.00E+00	DPM	1.1E+00	2.46	5.0E+00	1.4E-03	0.0029
9	0.00265	2.6E-06	1.00E+00	DPM	1.1E+00	0.46	5.0E+00	1.4E-03	0.0005
10	0.01636	1.6E-05	1.00E+00	DPM	1.1E+00	2.81	5.0E+00	1.4E-03	0.0033
11	0.00393	3.9E-06	1.00E+00	DPM	1.1E+00	0.68	5.0E+00	1.4E-03	0.0008
12	0.00102	1.0E-06	1.00E+00	DPM	1.1E+00	0.17	5.0E+00	1.4E-03	0.0002
13	0.00054	5.4E-07	1.00E+00	DPM	1.1E+00	0.09	5.0E+00	1.4E-03	0.0001
14	0.00192	1.9E-06	1.00E+00	DPM	1.1E+00	0.33	5.0E+00	1.4E-03	0.0004

Note: Exposure factors used to calculate TAC intake for Short-term Exposure

Exposure Frequency (days/year)	260	(construction days/year)
Exposure Duration (years)	1.41	(total construction time in 2022 and 2023)
Daily Breathing Rate	1090	
Age Sensitivity Factor	10	
Fraction of Time At Home (FAH)	1	
Averaging Time $_{(cancer)}$ (days)	25550	
Averaging Time $_{(non\text{-}cancer)}$ (days)	514.65	

E= 10^X, i.e. E-02 = 10^{-2}

Table 6: Carcinogenic Risks and Non-Carcinogenic Hazards Child Exposure Scenario 2024-2026

Receptor	Maximum Concentration		Weight		Carcinogenic Hazards		Noncarcinogenic Hazards		
					CPF	RISK (per million)	REL	RfD	
ID (a)	(ug/m3) (b)	(mg/m3) (c)	Fraction (d)	Contaminant (e)	(mg/kg/day) (f)	(g)	(ug/m3) (h)	(mg/kg/day) (i)	Index (j)
1	0.08381	8.4E-05	1.00E+00	DPM	1.1E+00	3.22	5.0E+00	1.4E-03	0.0168
2	0.085	8.5E-05	1.00E+00	DPM	1.1E+00	3.27	5.0E+00	1.4E-03	0.0170
3	0.01613	1.6E-05	1.00E+00	DPM	1.1E+00	0.62	5.0E+00	1.4E-03	0.0032
4	0.11369	1.1E-04	1.00E+00	DPM	1.1E+00	4.37	5.0E+00	1.4E-03	0.0227
5	0.022	2.2E-05	1.00E+00	DPM	1.1E+00	0.85	5.0E+00	1.4E-03	0.0044
pool_6	0.07435	7.4E-05	1.00E+00	DPM	1.1E+00	2.86	5.0E+00	1.4E-03	0.0149
7	0.10976	1.1E-04	1.00E+00	DPM	1.1E+00	4.22	5.0E+00	1.4E-03	0.0220
8	0.08012	8.0E-05	1.00E+00	DPM	1.1E+00	3.08	5.0E+00	1.4E-03	0.0160
9	0.01484	1.5E-05	1.00E+00	DPM	1.1E+00	0.57	5.0E+00	1.4E-03	0.0030
10	0.09171	9.2E-05	1.00E+00	DPM	1.1E+00	3.52	5.0E+00	1.4E-03	0.0183
11	0.02201	2.2E-05	1.00E+00	DPM	1.1E+00	0.85	5.0E+00	1.4E-03	0.0044
12	0.0057	5.7E-06	1.00E+00	DPM	1.1E+00	0.22	5.0E+00	1.4E-03	0.0011
13	0.00304	3.0E-06	1.00E+00	DPM	1.1E+00	0.12	5.0E+00	1.4E-03	0.0006
14	0.01078	1.1E-05	1.00E+00	DPM	1.1E+00	0.41	5.0E+00	1.4E-03	0.0022

Note: Exposure factors used to calculate TAC intake

Exposure Frequency (days/year)	260	(construction days/year)
Exposure Duration (years)	2	(total construction time 2024 through 2026)
Daily Breathing Rate	572	
Age Sensitivity Factor	3	
Fraction of Time At Home (FAH)	1	
Averaging Time $_{(cancer)}$ (days)	25550	
Averaging Time $_{(non\text{-}cancer)}$ (days)	730	

E= 10^{X}, i.e. E-02 = 10^{-2}

Furthermore, as children 2+ years would not be exposed to construction-related cancer risk from DPM emissions in excess of 10 in a million, it is reasonable to assume that neither adults nor off-site workers would be exposed to construction-related cancer risk from DPM emissions in excess of 10 in a million.

Therefore, as cancer risk levels can be mitigated down to levels less than 10 in a one million during construction, it is concluded that with incorporation of mitigation measure MM – 1, no sensitive receptors will be significantly impacted by construction-related TAC.

2. Non-Cancer Risks

The relationship for non-cancer health effects is given by the equation:

HIDPM = CDPM/RELDPM

Where,

HIDPM = Hazard Index; an expression of the potential for non-cancer health effects.
CDPM = Annual average diesel particulate matter concentration in µg/m3.

RELDPM = Reference Exposure Level (REL) for diesel particulate matter; the diesel particulate matter concentration at which no adverse health effects are anticipated.

The non-carcinogenic hazards to residential 3rd trimester, infant, and child receptors are also detailed in Tables 3 through 6 column (j). The RELDPM is 5 µg/m3. The Office of Environmental Health Hazard Assessment as protective for the respiratory system has established this concentration. Using the maximum DPM concentration for infant exposure, the resulting Hazard Index is

HIDPM = 0.41479/5 = 0.08296

The criterion for significance is a Hazard Index increase of 1.0 or greater. Therefore, the proposed project would have a less than significant impact due to the non-cancer risk from diesel emissions from the construction equipment.

Figure 4. Wind Rose – El Rio

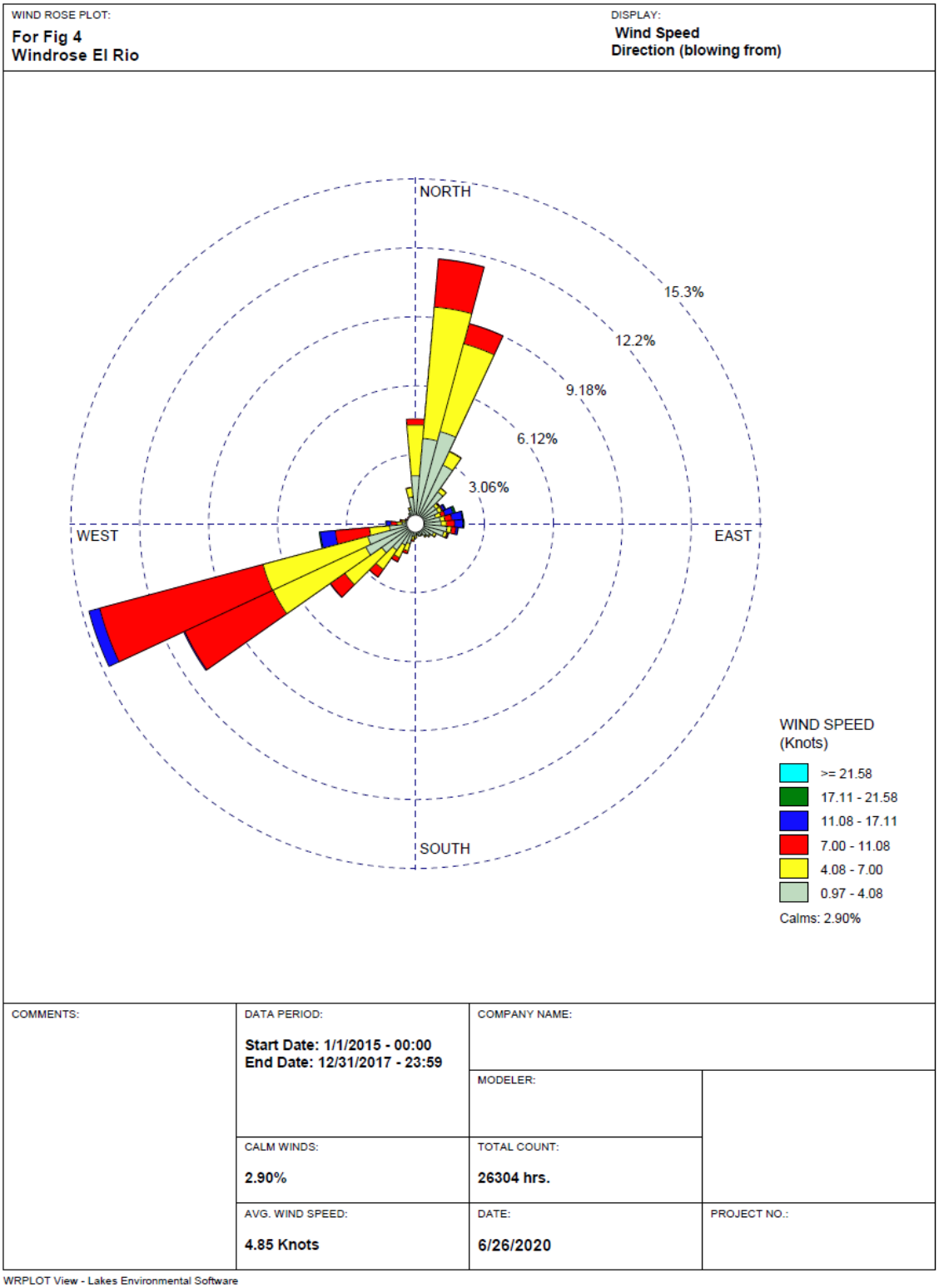
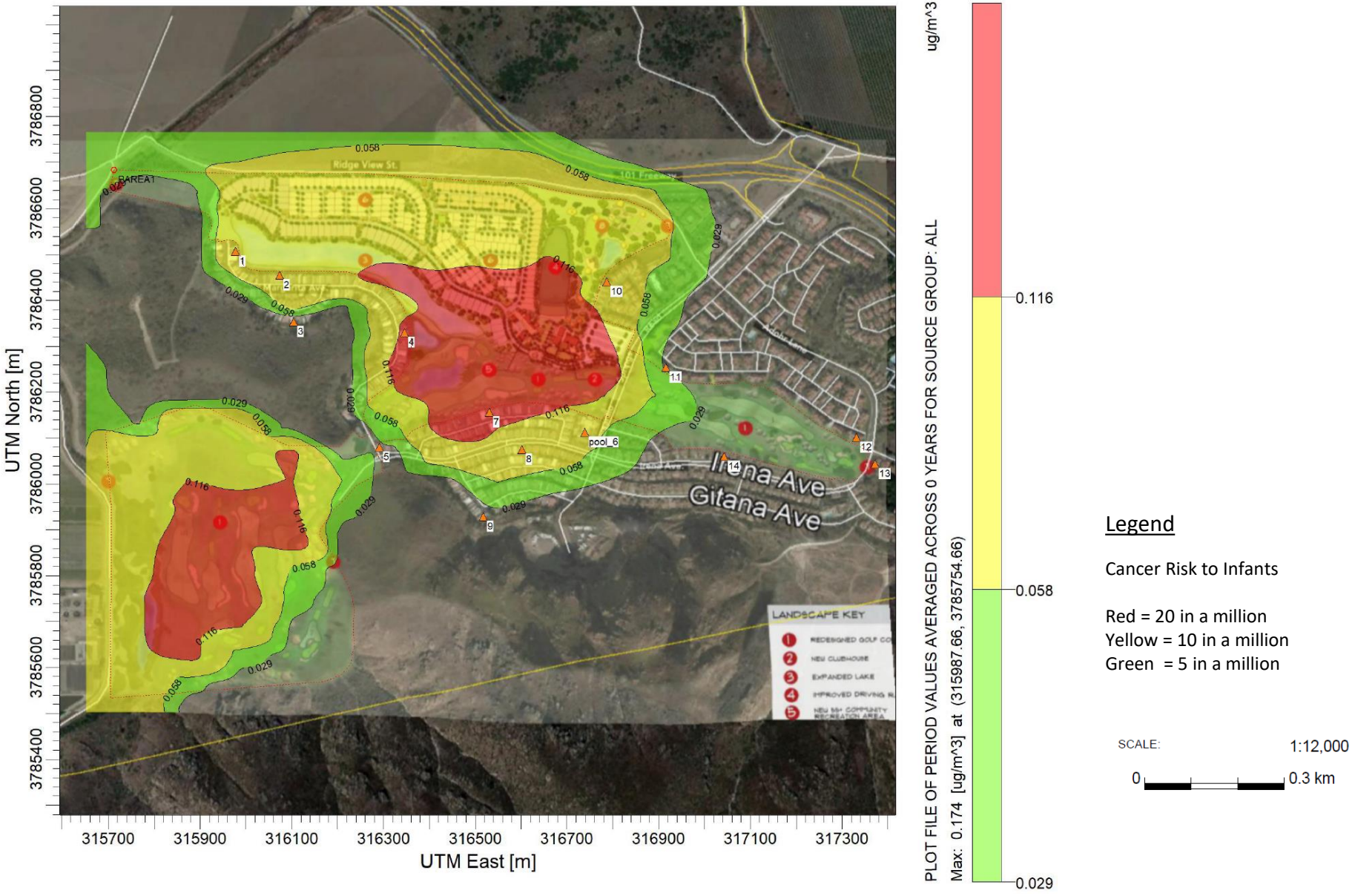


Figure 5

Unmitigated Annual DPM Emissions – Infants 2022 - 2023



V. Mitigation Measures

MM – 1: Require all construction equipment to have low emission Tier 3 or better engines with diesel oxidation catalysts, level 3 diesel particulate filters that reduce particulate matter by at least 85 percent and meet the latest CARB best available control technology.

VI. References

California Air Pollution Control Officers Association

2009 Health Risk Assessments for Proposed Land Use Projects

California Air Resources Board

2008 Resolution 08-43

2008 Airborne Toxic Control Measure for in-use Diesel-Fueled Transport Refrigeration Units (TRU) and TRU Generator Sets, Section 2477 of Division 3, Chapter 9, Title 13, California Code of Regulations

2008 ARB Recommended Interim Risk Management Policy for Inhalation-Based Residential Cancer Risk – Frequently Asked Questions

Governor's Office of Planning and Research

2008 CEQA and Climate: Addressing Climate Change Through California Environmental Quality Act (CEQA) Review

2009 CEQA Guideline Sections to be Added or Amended

Office of Environmental Health Hazard Assessment

2015 Air Toxics Hot Spots Program Risk Assessment Guidelines

U.S. Geological Survey

2011 Reported Historic Asbestos Mines, Historic Asbestos Prospects, and Other Natural Occurrences of Asbestos in California

Ventura County Air Pollution Control District

2003 Ventura County Air Quality Assessment Guidelines. October

Appendices

Appendix A – Glossary of Terms

Appendix B – AERMOD Model Printouts

APPENDIX A

Glossary of Terms

AQMP	Air Quality Management Plan
BACT	Best Available Control Technologies
CAAQS	California Ambient Air Quality Standards
CalEPA	California Environmental Protection Agency
CARB	California Air Resources Board
CCAA	California Clean Air Act
CCAR	California Climate Action Registry
CEQA	California Environmental Quality Act
CFCs	Chlorofluorocarbons
CH_4	Methane
CNG	Compressed natural gas
CO	Carbon monoxide
CO_2	Carbon dioxide
CO_2e	Carbon dioxide equivalent
DPM	Diesel particulate matter
EPA	U.S. Environmental Protection Agency
GHG	Greenhouse gas
GWP	Global warming potential
HIDPM	Hazard Index Diesel Particulate Matter
HFCs	Hydrofluorocarbons
IPCC	International Panel on Climate Change
LCFS	Low Carbon Fuel Standard
LST	Localized Significant Thresholds
$MTCO_2e$	Metric tons of carbon dioxide equivalent
$MMTCO_2e$	Million metric tons of carbon dioxide equivalent
MPO	Metropolitan Planning Organization
NAAQS	National Ambient Air Quality Standards
NOx	Nitrogen Oxides
NO_2	Nitrogen dioxide
N_2O	Nitrous oxide
O_3	Ozone
OPR	Governor's Office of Planning and Research
PFCs	Perfluorocarbons
PM	Particle matter
PM10	Particles that are less than 10 micrometers in diameter
PM2.5	Particles that are less than 2.5 micrometers in diameter
PMI	Point of maximum impact
PPM	Parts per million
PPB	Parts per billion
RTIP	Regional Transportation Improvement Plan
RTP	Regional Transportation Plan
SCAB	South Coast Air Basin

SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SF	Square Feet
SF_6	Sulfur hexafluoride
SIP	State Implementation Plan
SOx	Sulfur Oxides
T6	Heavy Duty Trucks from EMFAC 2007 classifications
T7	Heavy-Heavy Duty Trucks from EMFAC 2007 classifications
TAC	Toxic air contaminants
VOC	Volatile organic compounds

APPENDIX B

AERMOD Model Printouts

Camarillo Construction HRA calcs

Construction start date		1/4/2021		5 days per week			
Construction end date		10/31/2026					
	Overlap?				# of days	year	tons/yr
Grading		140 days	53.85%		140	2021	0.4798
Infrastructure		120 days	46.15%		120		0.0309
				total for 2021	260		
paving		15 days	5.77%		15	2022	0.00426
Building construction	Yes	245	94.23%		245		0.1092
architectural coating	Yes	245	94.23%		245		0.01
				total for 2022	260		
Building Construction	Yes	260 days	100.00%		260	2023	0.1066
Architectural coating	Yes	260 days	100.00%		260		0.00921
				total for 2023	260		
Building Construction	Yes	260 days	100.00%		260	2024	0.0993
Architectural coating	Yes	260 days	100.00%		260		0.00798
				total for 2024	260		
Building Construction	Yes	260 days	100.00%		260	2025	0.092
Architectural coating	Yes	260 days	100.00%		260		0.00672
				total for 2025	260		
Building Construction	Yes	217 days	100.00%		217	2026	0.0765
Architectural coating	Yes	217 days	100.00%		217		0.00559
				total for 2026	217		

		# of days	% of construction	tons/yr	tons/yr	
	2021	140	53.85%	0.4798	0.258354	
		120	46.15%	0.0309	0.014262	
2021 total days		**260**			**0.272615**	**weighted average for 2021**
	2022	15	5.77%	0.00426	0.000246	
		245	94.23%	0.1192	0.112323	
2022 total days		**260**			**0.112569**	**weighted average for 2022**
	2023	260	100.00%	0.11581	**0.11581**	**Average for 2023**
	2024	260	100.00%	0.10728	**0.10728**	**Average for 2024**
	2025	260	100.00%	0.09872	**0.09872**	**Average for 2025**
	2026	217	100.00%	0.08209	**0.08209**	**Average for 2026**

	year	tons/yr of DPM	
DPM emissions factors	2021	0.272615385	1 yr exposure
	2022-2023	0.114189423	2 year exposure (infants)
	2024-2026	0.09603	3 year exposure (children)

Camarillo - Annual Average Emissions 2021

Estimate of Annual Construction DPM Emissions (as PM10 exhaust)

Total Annual PM10 Exhaust Emissions During Construction as estimated in the CalEEMod model (weighted average).	0.272615385	tons/year
Average Emissions	0.007849276	grams/sec
Total size of the emission source from AERMOD (~180 acres)	720141.3	meters squared
Average area source emission	1.08996E-08	grams/m2-sec

Cancer Risk from DPM for 3rd Trimester Scenario (0.25 years)

DPM Concentration at boundary of closest receptor	0.31159	ug/m3	from Aermod dispersion model
Cancer Potency Factor (CPF)	1.1	(mg/kg/day)^-1	
Daily Breathing Rate *DBR)	361	(l/kg of body weight-day)	
Exposure Duration (ED)	0.25	years	
Exposure Frequency (EF)	260	days	construction days in 2021
Age Sensitivity Factor (ASF)	10		
Fraction of Time at Home (FAH)	1		

Cancer Risk = DPM Concentration x CPF x DBR x ED x EF x ASF x FAH / 25550

3rd Trimester 2015 OEHHA CR 3.147790718 in one million

Chronic Non-cancer Hazard Index from DPM

Reference Exposure Level (REL) for DPM: 5 ug/m3

Chronic Non-cancer HI = Annual DPM/REL = 0.062318

Camarillo - Annual Average Emissions 2022-2023

Estimate of Annual Construction DPM Emissions (as PM10 exhaust)

Total Annual PM10 Exhaust Emissions During Construction as estimated in the CalEEMod model (weighted average).	0.114189423	tons/year
Average Emissions	0.003287798	grams/sec
Total size of the emission source from AERMOD (~180 acres)	720141.3	meters squared
Average area source emission	4.56549E-09	grams/m2-sec

Cancer Risk from DPM for Infants (0-2 year exposure 2022-2023)

DPM Concentration at boundary of closest receptor	0.13051	ug/m3	from Aermod dispersion model
Cancer Potency Factor (CPF)	1.1	(mg/kg/day)^-1	
Daily Breathing Rate *DBR)	1090	(l/kg of body weight-day)	
Exposure Duration (ED)	1.41	years	(total construction time in 2022 and 2023)
Exposure Frequency (EF)	260	days	(construction days/year)
Age Sensitivity Factor (ASF)	10		
Fraction of Time Spent at Home (FAH)	1		

Infant 2015 OEHHA Cancer Risk = DPM Concentration x CPF x DBR x ED x EF x ASF x FAH / 25550

CR 22.45249089 in one million

Chronic Non-cancer Hazard Index from DPM

Reference Exposure Level (REL) for DPM: 5 ug/m3

Chronic Non-cancer HI = Annual DPM/REL = 0.026102

Camarillo - Annual Average Emissions 2024-2026

Estimate of Annual Construction DPM Emissions (as PM10 exhaust)

Total Annual PM10 Exhaust Emissions During Construction as estmated in the CalEEMod model.	0.09603	tons/year
Average Emissions	0.002764943	grams/sec
Total size of the emission source from AERMOD (~180 acres)	720141.3	meters squared
Average area source emission	3.83945E-09	grams/m2-sec

Cancer Risk from DPM

DPM Concentration at boundary of closest receptor	0.11369	ug/m3 from Aermod dispersion model
Cancer Potency Factor (CPF)	1.1	(mg/kg/day)^-1
Daily Breathing Rate *DBR)	572	(l/kg of body weight-day)
Exposure Duration (ED)	2	years (total construction time 2024 through 2026)
Exposure Frequency (EF)	260	days
Age Sensitivity Factor (ASF)	3	

Child 2015 OEHHA Cancer Risk = DPM Concentration x CPF x DBR x ED x EF x ASF / 25550

CR 4.367618273 in one million

Chronic Non-cancer Hazard Index from DPM

Reference Exposure Level (REL) for DPM: 5 ug/m3

Chronic Non-cancer HI = Annual DPM/REL = 0.022738

Camarillo Springs - Proposed Project

Ventura County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	9.50	Acre	9.50	0.00	0
City Park	7.60	Acre	7.60	0.00	0
Golf Course	12.00	Hole	141.40	0.00	0
Retirement Community	248.00	Dwelling Unit	23.51	248,000.00	496

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	31
Climate Zone	8			**Operational Year**	2027
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Camarillo Springs - Proposed Project - Ventura County, Annual

Project Characteristics -

Land Use - Default lot acreages and square footages changed to reflect proposed project.

Construction Phase - Default constrction dates changed to reflect proposed construction schedule.

Off-road Equipment - Grading Phase - Default unit amount changed to reflect proposed grading equipment.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Vehicle Trips - Default trip rates changed to be consistent with project traffic report.

Water And Wastewater - Default residential water use values changed to reflect project water supply study.

Construction Off-road Equipment Mitigation - Tier 3 standards recommended for grading phase equipment.

Area Mitigation -

Water Mitigation -

Waste Mitigation - Assumes 67 percent solid waste diversion for Camarillo.

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	17.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	220.00	1,245.00

Camarillo Springs - Proposed Project - Ventura County, Annual

tblConstructionPhase	NumDays	3,100.00	1,245.00
tblConstructionPhase	NumDays	310.00	140.00
tblConstructionPhase	NumDays	220.00	15.00
tblGrading	AcresOfGrading	2,380.00	775.00
tblLandUse	LandUseSquareFeet	413,820.00	0.00
tblLandUse	LandUseSquareFeet	331,056.00	0.00
tblLandUse	LotAcreage	83.77	141.40
tblLandUse	LotAcreage	49.60	23.51
tblLandUse	Population	759.00	496.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.48	0.48
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Scrapers
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	16.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	7.00
tblVehicleTrips	ST_TR	22.75	50.00
tblVehicleTrips	ST_TR	40.63	30.38
tblVehicleTrips	ST_TR	2.03	4.27
tblVehicleTrips	SU_TR	16.74	50.00
tblVehicleTrips	SU_TR	39.53	30.38
tblVehicleTrips	SU_TR	1.95	4.27

tblVehicleTrips	WD_TR	1.89	50.00
tblVehicleTrips	WD_TR	35.74	30.38
tblVehicleTrips	WD_TR	2.40	4.27
tblWater	IndoorWaterUseRate	16,158,198.35	41,820,240.00
tblWater	OutdoorWaterUseRate	10,186,690.27	1,697,250.00

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					
2021	1.6724	18.1761	12.1561	0.0275	1.3009	0.7352	2.0361	0.5203	0.6764	1.1967	0.0000	2,412.5118	2,412.5118	0.7686	0.0000	2,431.7275
2022	0.5979	2.5256	3.0205	6.5500e-003	0.2353	0.1156	0.3509	0.0630	0.1093	0.1723	0.0000	581.9611	581.9611	0.0852	0.0000	584.0915
2023	0.5853	2.3351	3.0133	6.6700e-003	0.2487	0.1020	0.3507	0.0666	0.0965	0.1631	0.0000	592.1837	592.1837	0.0835	0.0000	594.2702
2024	0.5703	2.2113	2.9827	6.6400e-003	0.2507	0.0901	0.3408	0.0671	0.0852	0.1524	0.0000	590.1945	590.1945	0.0831	0.0000	592.2725
2025	0.5489	2.0583	2.9193	6.5400e-003	0.2497	0.0773	0.3270	0.0669	0.0731	0.1400	0.0000	580.7175	580.7175	0.0819	0.0000	582.7658
2026	0.4532	1.7053	2.3979	5.3800e-003	0.2076	0.0643	0.2719	0.0556	0.0608	0.1164	0.0000	477.5169	477.5169	0.0678	0.0000	479.2123
Maximum	**1.6724**	**18.1761**	**12.1561**	**0.0275**	**1.3009**	**0.7352**	**2.0361**	**0.5203**	**0.6764**	**1.1967**	**0.0000**	**2,412.5118**	**2,412.5118**	**0.7686**	**0.0000**	**2,431.7275**

2.1 Overall Construction

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					
2021	0.7830	12.6418	13.8659	0.0275	0.5359	0.5110	1.0469	0.2105	0.5056	0.7161	0.0000	2,412.5090	2,412.5090	0.7686	0.0000	2,431.7247
2022	0.5693	2.5444	3.0540	6.5500e-003	0.2353	0.1257	0.3610	0.0630	0.1217	0.1847	0.0000	581.9607	581.9607	0.0852	0.0000	584.0911
2023	0.5596	2.4030	3.0511	6.6700e-003	0.2487	0.1176	0.3663	0.0666	0.1142	0.1808	0.0000	592.1833	592.1833	0.0835	0.0000	594.2698
2024	0.5469	2.3097	3.0193	6.6400e-003	0.2507	0.1091	0.3597	0.0671	0.1060	0.1731	0.0000	590.1941	590.1941	0.0831	0.0000	592.2721
2025	0.5297	2.1951	2.9578	6.5400e-003	0.2497	0.1004	0.3501	0.0669	0.0977	0.1646	0.0000	580.7171	580.7171	0.0819	0.0000	582.7654
2026	0.4372	1.8191	2.4299	5.3800e-003	0.2076	0.0835	0.2911	0.0556	0.0812	0.1368	0.0000	477.5166	477.5166	0.0678	0.0000	479.2120
Maximum	**0.7830**	**12.6418**	**13.8659**	**0.0275**	**0.5359**	**0.5110**	**1.0469**	**0.2105**	**0.5056**	**0.7161**	**0.0000**	**2,412.5090**	**2,412.5090**	**0.7686**	**0.0000**	**2,431.7247**

	ROG	NOx	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	**22.64**	**17.57**	**-7.13**	**0.00**	**30.69**	**11.59**	**24.53**	**36.90**	**6.81**	**19.82**	**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	**1-4-2021**	**4-3-2021**	8.6699	5.8343
2	**4-4-2021**	**7-3-2021**	8.7641	5.8971
3	**7-4-2021**	**10-3-2021**	1.6967	1.1732
4	**10-4-2021**	**1-3-2022**	0.5189	0.3873
5	**1-4-2022**	**4-3-2022**	0.7076	0.7056

6	**4-4-2022**	**7-3-2022**	0.7981	0.7956
7	**7-4-2022**	**10-3-2022**	0.8071	0.8045
8	**10-4-2022**	**1-3-2023**	0.8098	0.8076
9	**1-4-2023**	**4-3-2023**	0.7244	0.7348
10	**4-4-2023**	**7-3-2023**	0.7280	0.7385
11	**7-4-2023**	**10-3-2023**	0.7361	0.7468
12	**10-4-2023**	**1-3-2024**	0.7394	0.7503
13	**1-4-2024**	**4-3-2024**	0.6923	0.7109
14	**4-4-2024**	**7-3-2024**	0.6881	0.7067
15	**7-4-2024**	**10-3-2024**	0.6958	0.7146
16	**10-4-2024**	**1-3-2025**	0.6987	0.7179
17	**1-4-2025**	**4-3-2025**	0.6443	0.6732
18	**4-4-2025**	**7-3-2025**	0.6475	0.6767
19	**7-4-2025**	**10-3-2025**	0.6547	0.6843
20	**10-4-2025**	**1-3-2026**	0.6587	0.6882
21	**1-4-2026**	**4-3-2026**	0.6415	0.6705
22	**4-4-2026**	**7-3-2026**	0.6448	0.6741
23	**7-4-2026**	**9-30-2026**	0.6307	0.6593
		Highest	8.7641	5.8971

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	1.1499	0.0212	1.8400	1.0000e-004		0.0102	0.0102		0.0102	0.0102	0.0000	3.0085	3.0085	2.8800e-003	0.0000	3.0805
Energy	0.0171	0.1458	0.0621	9.3000e-004		0.0118	0.0118		0.0118	0.0118	0.0000	512.6608	512.6608	0.0174	6.0300e-003	514.8942
Mobile	0.3068	1.2077	3.6753	0.0150	1.6622	0.0114	1.6736	0.4445	0.0106	0.4551	0.0000	1,384.7318	1,384.7318	0.0508	0.0000	1,386.0011
Waste						0.0000	0.0000		0.0000	0.0000	23.6139	0.0000	23.6139	1.3955	0.0000	58.5025
Water						0.0000	0.0000		0.0000	0.0000	13.2676	564.8959	578.1635	1.3860	0.0370	623.8409
Total	**1.4738**	**1.3747**	**5.5773**	**0.0160**	**1.6622**	**0.0334**	**1.6956**	**0.4445**	**0.0326**	**0.4771**	**36.8816**	**2,465.2969**	**2,502.1785**	**2.8527**	**0.0430**	**2,586.3193**

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	1.1499	0.0212	1.8400	1.0000e-004		0.0102	0.0102		0.0102	0.0102	0.0000	3.0085	3.0085	2.8800e-003	0.0000	3.0805
Energy	0.0171	0.1458	0.0621	9.3000e-004		0.0118	0.0118		0.0118	0.0118	0.0000	512.6608	512.6608	0.0174	6.0300e-003	514.8942
Mobile	0.3068	1.2077	3.6753	0.0150	1.6622	0.0114	1.6736	0.4445	0.0106	0.4551	0.0000	1,384.7318	1,384.7318	0.0508	0.0000	1,386.0011
Waste						0.0000	0.0000		0.0000	0.0000	7.7926	0.0000	7.7926	0.4605	0.0000	19.3058
Water						0.0000	0.0000		0.0000	0.0000	10.6141	530.1954	540.8095	1.1121	0.0303	577.6314
Total	**1.4738**	**1.3747**	**5.5773**	**0.0160**	**1.6622**	**0.0334**	**1.6956**	**0.4445**	**0.0326**	**0.4771**	**18.4067**	**2,430.5964**	**2,449.0031**	**1.6437**	**0.0363**	**2,500.9132**

	ROG	NOx	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**	**50.09**	**1.41**	**2.13**	**42.38**	**15.64**	**3.30**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/4/2021	7/16/2021	5	140	Grading
2	Infrastructure	Trenching	7/19/2021	12/31/2021	5	120	Infrastructure Improvements
3	Paving	Paving	1/3/2022	1/21/2022	5	15	Street Improvements
4	Building Construction	Building Construction	1/24/2022	10/30/2026	5	1245	
5	Architectural Coating	Architectural Coating	1/24/2022	10/30/2026	5	1245	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 775

Acres of Paving: 9.5

Residential Indoor: 502,200; Residential Outdoor: 167,400; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Camarillo Springs - Proposed Project - Ventura County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Scrapers	16	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	7	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Off-Highway Trucks	5	8.00	402	0.38
Infrastructure	Excavators	1	8.00	158	0.38
Infrastructure	Scrapers	1	8.00	367	0.48
Infrastructure	Tractors/Loaders/Backhoes	1	8.00	97	0.37

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
Grading	33	83.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	179.00	27.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	36.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Infrastructure	3	8.00					20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Grading - 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					
Fugitive Dust					1.2540	0.0000	1.2540	0.5078	0.0000	0.5078	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5708	17.2744	11.2560	0.0256		0.6968	0.6968		0.6411	0.6411	0.0000	2,249.5129	2,249.5129	0.7275	0.0000	2,267.7014
Total	**1.5708**	**17.2744**	**11.2560**	**0.0256**	**1.2540**	**0.6968**	**1.9509**	**0.5078**	**0.6411**	**1.1489**	**0.0000**	**2,249.5129**	**2,249.5129**	**0.7275**	**0.0000**	**2,267.7014**

3.2 Grading - 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	0.0201	0.0130	0.1431	4.3000e-004	0.0469	3.3000e-004	0.0472	0.0124	3.0000e-004	0.0128	0.0000	38.9309	38.9309	9.9000e-004	0.0000	38.9555
Total	**0.0201**	**0.0130**	**0.1431**	**4.3000e-004**	**0.0469**	**3.3000e-004**	**0.0472**	**0.0124**	**3.0000e-004**	**0.0128**	**0.0000**	**38.9309**	**38.9309**	**9.9000e-004**	**0.0000**	**38.9555**

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					0.4891	0.0000	0.4891	0.1980	0.0000	0.1980	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.7277	11.9422	12.8573	0.0256		0.4798	0.4798		0.4744	0.4744	0.0000	2,249.5102	2,249.5102	0.7275	0.0000	2,267.6987
Total	**0.7277**	**11.9422**	**12.8573**	**0.0256**	**0.4891**	**0.4798**	**0.9688**	**0.1980**	**0.4744**	**0.6724**	**0.0000**	**2,249.5102**	**2,249.5102**	**0.7275**	**0.0000**	**2,267.6987**

3.2 Grading - 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	0.0201	0.0130	0.1431	4.3000e-004	0.0469	3.3000e-004	0.0472	0.0124	3.0000e-004	0.0128	0.0000	38.9309	38.9309	9.9000e-004	0.0000	38.9555
Total	**0.0201**	**0.0130**	**0.1431**	**4.3000e-004**	**0.0469**	**3.3000e-004**	**0.0472**	**0.0124**	**3.0000e-004**	**0.0128**	**0.0000**	**38.9309**	**38.9309**	**9.9000e-004**	**0.0000**	**38.9555**

3.3 Infrastructure - 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	0.0811	0.8885	0.7547	1.4100e-003		0.0381	0.0381		0.0350	0.0350	0.0000	123.9736	123.9736	0.0401	0.0000	124.9759
Total	**0.0811**	**0.8885**	**0.7547**	**1.4100e-003**		**0.0381**	**0.0381**		**0.0350**	**0.0350**	**0.0000**	**123.9736**	**123.9736**	**0.0401**	**0.0000**	**124.9759**

3.3 Infrastructure - 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
Worker	4.4000e-004	1.4000e-004	2.2300e-003	0.0000	0.0000	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0945	0.0945	1.0000e-005	0.0000	0.0947
Total	**4.4000e-004**	**1.4000e-004**	**2.2300e-003**	**0.0000**	**0.0000**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0945**	**0.0945**	**1.0000e-005**	**0.0000**	**0.0947**

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	0.0347	0.6864	0.8633	1.4100e-003		0.0309	0.0309		0.0309	0.0309	0.0000	123.9734	123.9734	0.0401	0.0000	124.9758
Total	**0.0347**	**0.6864**	**0.8633**	**1.4100e-003**		**0.0309**	**0.0309**		**0.0309**	**0.0309**	**0.0000**	**123.9734**	**123.9734**	**0.0401**	**0.0000**	**124.9758**

3.3 Infrastructure - 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
Worker	4.4000e-004	1.4000e-004	2.2300e-003	0.0000	0.0000	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0945	0.0945	1.0000e-005	0.0000	0.0947
Total	**4.4000e-004**	**1.4000e-004**	**2.2300e-003**	**0.0000**	**0.0000**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0945**	**0.0945**	**1.0000e-005**	**0.0000**	**0.0947**

3.4 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.2700e-003	0.0834	0.1094	1.7000e-004		4.2600e-003	4.2600e-003		3.9200e-003	3.9200e-003	0.0000	15.0207	15.0207	4.8600e-003	0.0000	15.1421
Paving	0.0125					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0207**	**0.0834**	**0.1094**	**1.7000e-004**		**4.2600e-003**	**4.2600e-003**		**3.9200e-003**	**3.9200e-003**	**0.0000**	**15.0207**	**15.0207**	**4.8600e-003**	**0.0000**	**15.1421**

3.4 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.7000e-004	2.3000e-004	2.5600e-003	1.0000e-005	9.1000e-004	1.0000e-005	9.1000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.7261	0.7261	2.0000e-005	0.0000	0.7266
Total	**3.7000e-004**	**2.3000e-004**	**2.5600e-003**	**1.0000e-005**	**9.1000e-004**	**1.0000e-005**	**9.1000e-004**	**2.4000e-004**	**1.0000e-005**	**2.5000e-004**	**0.0000**	**0.7261**	**0.7261**	**2.0000e-005**	**0.0000**	**0.7266**

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	8.2700e-003	0.0834	0.1094	1.7000e-004		4.2600e-003	4.2600e-003		3.9200e-003	3.9200e-003	0.0000	15.0207	15.0207	4.8600e-003	0.0000	15.1421
Paving	0.0125					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0207**	**0.0834**	**0.1094**	**1.7000e-004**		**4.2600e-003**	**4.2600e-003**		**3.9200e-003**	**3.9200e-003**	**0.0000**	**15.0207**	**15.0207**	**4.8600e-003**	**0.0000**	**15.1421**

3.4 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.7000e-004	2.3000e-004	2.5600e-003	1.0000e-005	9.1000e-004	1.0000e-005	9.1000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.7261	0.7261	2.0000e-005	0.0000	0.7266
Total	**3.7000e-004**	**2.3000e-004**	**2.5600e-003**	**1.0000e-005**	**9.1000e-004**	**1.0000e-005**	**9.1000e-004**	**2.4000e-004**	**1.0000e-005**	**2.5000e-004**	**0.0000**	**0.7261**	**0.7261**	**2.0000e-005**	**0.0000**	**0.7266**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2090	1.9129	2.0045	3.3000e-003		0.0991	0.0991		0.0932	0.0932	0.0000	283.8634	283.8634	0.0680	0.0000	285.5636
Total	**0.2090**	**1.9129**	**2.0045**	**3.3000e-003**		**0.0991**	**0.0991**		**0.0932**	**0.0932**	**0.0000**	**283.8634**	**283.8634**	**0.0680**	**0.0000**	**285.5636**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.8700e-003	0.3032	0.0824	8.3000e-004	0.0220	7.9000e-004	0.0228	6.3500e-003	7.5000e-004	7.1000e-003	0.0000	81.0791	81.0791	6.2600e-003	0.0000	81.2357
Worker	0.0714	0.0443	0.4992	1.5700e-003	0.1768	1.2200e-003	0.1780	0.0470	1.1200e-003	0.0481	0.0000	141.5303	141.5303	3.3600e-003	0.0000	141.6143
Total	**0.0802**	**0.3475**	**0.5815**	**2.4000e-003**	**0.1988**	**2.0100e-003**	**0.2008**	**0.0533**	**1.8700e-003**	**0.0552**	**0.0000**	**222.6093**	**222.6093**	**9.6200e-003**	**0.0000**	**222.8499**

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	0.1805	1.9318	2.0380	3.3000e-003		0.1092	0.1092		0.1057	0.1057	0.0000	283.8631	283.8631	0.0680	0.0000	285.5632
Total	**0.1805**	**1.9318**	**2.0380**	**3.3000e-003**		**0.1092**	**0.1092**		**0.1057**	**0.1057**	**0.0000**	**283.8631**	**283.8631**	**0.0680**	**0.0000**	**285.5632**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.8700e-003	0.3032	0.0824	8.3000e-004	0.0220	7.9000e-004	0.0228	6.3500e-003	7.5000e-004	7.1000e-003	0.0000	81.0791	81.0791	6.2600e-003	0.0000	81.2357
Worker	0.0714	0.0443	0.4992	1.5700e-003	0.1768	1.2200e-003	0.1780	0.0470	1.1200e-003	0.0481	0.0000	141.5303	141.5303	3.3600e-003	0.0000	141.6143
Total	**0.0802**	**0.3475**	**0.5815**	**2.4000e-003**	**0.1988**	**2.0100e-003**	**0.2008**	**0.0533**	**1.8700e-003**	**0.0552**	**0.0000**	**222.6093**	**222.6093**	**9.6200e-003**	**0.0000**	**222.8499**

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3462	301.3462	0.0717	0.0000	303.1383
Total	**0.2045**	**1.8700**	**2.1117**	**3.5000e-003**		**0.0910**	**0.0910**		**0.0856**	**0.0856**	**0.0000**	**301.3462**	**301.3462**	**0.0717**	**0.0000**	**303.1383**

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.9800e-003	0.2447	0.0791	8.6000e-004	0.0234	3.2000e-004	0.0237	6.7400e-003	3.0000e-004	7.0400e-003	0.0000	84.1514	84.1514	5.9300e-003	0.0000	84.2997
Worker	0.0713	0.0425	0.4887	1.6000e-003	0.1876	1.2600e-003	0.1889	0.0498	1.1600e-003	0.0510	0.0000	144.4438	144.4438	3.2100e-003	0.0000	144.5240
Total	**0.0783**	**0.2872**	**0.5678**	**2.4600e-003**	**0.2110**	**1.5800e-003**	**0.2126**	**0.0566**	**1.4600e-003**	**0.0580**	**0.0000**	**228.5951**	**228.5951**	**9.1400e-003**	**0.0000**	**228.8237**

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	0.1787	1.9379	2.1495	3.5000e-003		0.1066	0.1066		0.1033	0.1033	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380
Total	**0.1787**	**1.9379**	**2.1495**	**3.5000e-003**		**0.1066**	**0.1066**		**0.1033**	**0.1033**	**0.0000**	**301.3458**	**301.3458**	**0.0717**	**0.0000**	**303.1380**

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.9800e-003	0.2447	0.0791	8.6000e-004	0.0234	3.2000e-004	0.0237	6.7400e-003	3.0000e-004	7.0400e-003	0.0000	84.1514	84.1514	5.9300e-003	0.0000	84.2997
Worker	0.0713	0.0425	0.4887	1.6000e-003	0.1876	1.2600e-003	0.1889	0.0498	1.1600e-003	0.0510	0.0000	144.4438	144.4438	3.2100e-003	0.0000	144.5240
Total	**0.0783**	**0.2872**	**0.5678**	**2.4600e-003**	**0.2110**	**1.5800e-003**	**0.2126**	**0.0566**	**1.4600e-003**	**0.0580**	**0.0000**	**228.5951**	**228.5951**	**9.1400e-003**	**0.0000**	**228.8237**

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179
Total	**0.1928**	**1.7611**	**2.1179**	**3.5300e-003**		**0.0803**	**0.0803**		**0.0756**	**0.0756**	**0.0000**	**303.7223**	**303.7223**	**0.0718**	**0.0000**	**305.5179**

3.5 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.8100e-003	0.2438	0.0777	8.6000e-004	0.0236	3.1000e-004	0.0239	6.7900e-003	3.0000e-004	7.0900e-003	0.0000	84.3822	84.3822	5.8700e-003	0.0000	84.5290
Worker	0.0680	0.0389	0.4579	1.5500e-003	0.1891	1.2500e-003	0.1903	0.0502	1.1500e-003	0.0514	0.0000	140.4046	140.4046	2.9500e-003	0.0000	140.4783
Total	**0.0748**	**0.2827**	**0.5356**	**2.4100e-003**	**0.2126**	**1.5600e-003**	**0.2142**	**0.0570**	**1.4500e-003**	**0.0585**	**0.0000**	**224.7867**	**224.7867**	**8.8200e-003**	**0.0000**	**225.0073**

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	0.1694	1.8595	2.1545	3.5300e-003		0.0993	0.0993		0.0963	0.0963	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175
Total	**0.1694**	**1.8595**	**2.1545**	**3.5300e-003**		**0.0993**	**0.0993**		**0.0963**	**0.0963**	**0.0000**	**303.7220**	**303.7220**	**0.0718**	**0.0000**	**305.5175**

3.5 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.8100e-003	0.2438	0.0777	8.6000e-004	0.0236	3.1000e-004	0.0239	6.7900e-003	3.0000e-004	7.0900e-003	0.0000	84.3822	84.3822	5.8700e-003	0.0000	84.5290
Worker	0.0680	0.0389	0.4579	1.5500e-003	0.1891	1.2500e-003	0.1903	0.0502	1.1500e-003	0.0514	0.0000	140.4046	140.4046	2.9500e-003	0.0000	140.4783
Total	**0.0748**	**0.2827**	**0.5356**	**2.4100e-003**	**0.2126**	**1.5600e-003**	**0.2142**	**0.0570**	**1.4500e-003**	**0.0585**	**0.0000**	**224.7867**	**224.7867**	**8.8200e-003**	**0.0000**	**225.0073**

3.5 Building Construction - 2025

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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	**0.1785**	**1.6273**	**2.0991**	**3.5200e-003**		**0.0689**	**0.0689**		**0.0648**	**0.0648**	**0.0000**	**302.6549**	**302.6549**	**0.0711**	**0.0000**	**304.4335**

3.5 Building Construction - 2025

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	6.5500e-003	0.2390	0.0758	8.5000e-004	0.0235	3.0000e-004	0.0238	6.7700e-003	2.9000e-004	7.0600e-003	0.0000	83.5372	83.5372	5.7600e-003	0.0000	83.6812
Worker	0.0644	0.0354	0.4233	1.4800e-003	0.1884	1.2300e-003	0.1896	0.0500	1.1300e-003	0.0512	0.0000	134.2129	134.2129	2.6700e-003	0.0000	134.2797
Total	**0.0709**	**0.2744**	**0.4991**	**2.3300e-003**	**0.2118**	**1.5300e-003**	**0.2134**	**0.0568**	**1.4200e-003**	**0.0582**	**0.0000**	**217.7501**	**217.7501**	**8.4300e-003**	**0.0000**	**217.9609**

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	0.1592	1.7641	2.1376	3.5200e-003		0.0920	0.0920		0.0894	0.0894	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	**0.1592**	**1.7641**	**2.1376**	**3.5200e-003**		**0.0920**	**0.0920**		**0.0894**	**0.0894**	**0.0000**	**302.6545**	**302.6545**	**0.0711**	**0.0000**	**304.4331**

3.5 Building Construction - 2025

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	6.5500e-003	0.2390	0.0758	8.5000e-004	0.0235	3.0000e-004	0.0238	6.7700e-003	2.9000e-004	7.0600e-003	0.0000	83.5372	83.5372	5.7600e-003	0.0000	83.6812
Worker	0.0644	0.0354	0.4233	1.4800e-003	0.1884	1.2300e-003	0.1896	0.0500	1.1300e-003	0.0512	0.0000	134.2129	134.2129	2.6700e-003	0.0000	134.2797
Total	**0.0709**	**0.2744**	**0.4991**	**2.3300e-003**	**0.2118**	**1.5300e-003**	**0.2134**	**0.0568**	**1.4200e-003**	**0.0582**	**0.0000**	**217.7501**	**217.7501**	**8.4300e-003**	**0.0000**	**217.9609**

3.5 Building Construction - 2026

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	0.1484	1.3530	1.7452	2.9300e-003		0.0572	0.0572		0.0538	0.0538	0.0000	251.6326	251.6326	0.0592	0.0000	253.1114
Total	**0.1484**	**1.3530**	**1.7452**	**2.9300e-003**		**0.0572**	**0.0572**		**0.0538**	**0.0538**	**0.0000**	**251.6326**	**251.6326**	**0.0592**	**0.0000**	**253.1114**

3.5 Building Construction - 2026

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	5.2800e-003	0.1957	0.0621	7.0000e-004	0.0195	2.4000e-004	0.0198	5.6300e-003	2.3000e-004	5.8600e-003	0.0000	69.0490	69.0490	4.7200e-003	0.0000	69.1669
Worker	0.0510	0.0270	0.3283	1.1900e-003	0.1566	9.9000e-004	0.1576	0.0416	9.1000e-004	0.0425	0.0000	107.5103	107.5103	2.0300e-003	0.0000	107.5611
Total	**0.0563**	**0.2227**	**0.3904**	**1.8900e-003**	**0.1761**	**1.2300e-003**	**0.1774**	**0.0472**	**1.1400e-003**	**0.0484**	**0.0000**	**176.5593**	**176.5593**	**6.7500e-003**	**0.0000**	**176.7280**

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	0.1324	1.4667	1.7772	2.9300e-003		0.0765	0.0765		0.0743	0.0743	0.0000	251.6323	251.6323	0.0592	0.0000	253.1111
Total	**0.1324**	**1.4667**	**1.7772**	**2.9300e-003**		**0.0765**	**0.0765**		**0.0743**	**0.0743**	**0.0000**	**251.6323**	**251.6323**	**0.0592**	**0.0000**	**253.1111**

3.5 Building Construction - 2026

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	5.2800e-003	0.1957	0.0621	7.0000e-004	0.0195	2.4000e-004	0.0198	5.6300e-003	2.3000e-004	5.8600e-003	0.0000	69.0490	69.0490	4.7200e-003	0.0000	69.1669
Worker	0.0510	0.0270	0.3283	1.1900e-003	0.1566	9.9000e-004	0.1576	0.0416	9.1000e-004	0.0425	0.0000	107.5103	107.5103	2.0300e-003	0.0000	107.5611
Total	**0.0563**	**0.2227**	**0.3904**	**1.8900e-003**	**0.1761**	**1.2300e-003**	**0.1774**	**0.0472**	**1.1400e-003**	**0.0484**	**0.0000**	**176.5593**	**176.5593**	**6.7500e-003**	**0.0000**	**176.7280**

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2481					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0251	0.1725	0.2222	3.6000e-004		0.0100	0.0100		0.0100	0.0100	0.0000	31.2774	31.2774	2.0400e-003	0.0000	31.3283
Total	**0.2732**	**0.1725**	**0.2222**	**3.6000e-004**		**0.0100**	**0.0100**		**0.0100**	**0.0100**	**0.0000**	**31.2774**	**31.2774**	**2.0400e-003**	**0.0000**	**31.3283**

3.6 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0144	8.9100e-003	0.1004	3.1000e-004	0.0356	2.4000e-004	0.0358	9.4500e-003	2.3000e-004	9.6700e-003	0.0000	28.4642	28.4642	6.8000e-004	0.0000	28.4811
Total	**0.0144**	**8.9100e-003**	**0.1004**	**3.1000e-004**	**0.0356**	**2.4000e-004**	**0.0358**	**9.4500e-003**	**2.3000e-004**	**9.6700e-003**	**0.0000**	**28.4642**	**28.4642**	**6.8000e-004**	**0.0000**	**28.4811**

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	0.2481					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0251	0.1725	0.2222	3.6000e-004		0.0100	0.0100		0.0100	0.0100	0.0000	31.2773	31.2773	2.0400e-003	0.0000	31.3282
Total	**0.2732**	**0.1725**	**0.2222**	**3.6000e-004**		**0.0100**	**0.0100**		**0.0100**	**0.0100**	**0.0000**	**31.2773**	**31.2773**	**2.0400e-003**	**0.0000**	**31.3282**

3.6 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0144	8.9100e-003	0.1004	3.1000e-004	0.0356	2.4000e-004	0.0358	9.4500e-003	2.3000e-004	9.6700e-003	0.0000	28.4642	28.4642	6.8000e-004	0.0000	28.4811
Total	**0.0144**	**8.9100e-003**	**0.1004**	**3.1000e-004**	**0.0356**	**2.4000e-004**	**0.0358**	**9.4500e-003**	**2.3000e-004**	**9.6700e-003**	**0.0000**	**28.4642**	**28.4642**	**6.8000e-004**	**0.0000**	**28.4811**

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2633					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0249	0.1694	0.2355	3.9000e-004		9.2100e-003	9.2100e-003		9.2100e-003	9.2100e-003	0.0000	33.1923	33.1923	1.9900e-003	0.0000	33.2419
Total	**0.2882**	**0.1694**	**0.2355**	**3.9000e-004**		**9.2100e-003**	**9.2100e-003**		**9.2100e-003**	**9.2100e-003**	**0.0000**	**33.1923**	**33.1923**	**1.9900e-003**	**0.0000**	**33.2419**

3.6 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0143	8.5400e-003	0.0983	3.2000e-004	0.0377	2.5000e-004	0.0380	0.0100	2.3000e-004	0.0103	0.0000	29.0501	29.0501	6.5000e-004	0.0000	29.0663
Total	**0.0143**	**8.5400e-003**	**0.0983**	**3.2000e-004**	**0.0377**	**2.5000e-004**	**0.0380**	**0.0100**	**2.3000e-004**	**0.0103**	**0.0000**	**29.0501**	**29.0501**	**6.5000e-004**	**0.0000**	**29.0663**

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	0.2633					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0249	0.1694	0.2354	3.9000e-004		9.2100e-003	9.2100e-003		9.2100e-003	9.2100e-003	0.0000	33.1923	33.1923	1.9900e-003	0.0000	33.2419
Total	**0.2882**	**0.1694**	**0.2354**	**3.9000e-004**		**9.2100e-003**	**9.2100e-003**		**9.2100e-003**	**9.2100e-003**	**0.0000**	**33.1923**	**33.1923**	**1.9900e-003**	**0.0000**	**33.2419**

3.6 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0143	8.5400e-003	0.0983	3.2000e-004	0.0377	2.5000e-004	0.0380	0.0100	2.3000e-004	0.0103	0.0000	29.0501	29.0501	6.5000e-004	0.0000	29.0663
Total	**0.0143**	**8.5400e-003**	**0.0983**	**3.2000e-004**	**0.0377**	**2.5000e-004**	**0.0380**	**0.0100**	**2.3000e-004**	**0.0103**	**0.0000**	**29.0501**	**29.0501**	**6.5000e-004**	**0.0000**	**29.0663**

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2653					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0237	0.1597	0.2371	3.9000e-004		7.9800e-003	7.9800e-003		7.9800e-003	7.9800e-003	0.0000	33.4476	33.4476	1.8800e-003	0.0000	33.4947
Total	**0.2890**	**0.1597**	**0.2371**	**3.9000e-004**		**7.9800e-003**	**7.9800e-003**		**7.9800e-003**	**7.9800e-003**	**0.0000**	**33.4476**	**33.4476**	**1.8800e-003**	**0.0000**	**33.4947**

3.6 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0137	7.8200e-003	0.0921	3.1000e-004	0.0380	2.5000e-004	0.0383	0.0101	2.3000e-004	0.0103	0.0000	28.2378	28.2378	5.9000e-004	0.0000	28.2526
Total	**0.0137**	**7.8200e-003**	**0.0921**	**3.1000e-004**	**0.0380**	**2.5000e-004**	**0.0383**	**0.0101**	**2.3000e-004**	**0.0103**	**0.0000**	**28.2378**	**28.2378**	**5.9000e-004**	**0.0000**	**28.2526**

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	0.2653					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0237	0.1597	0.2371	3.9000e-004		7.9800e-003	7.9800e-003		7.9800e-003	7.9800e-003	0.0000	33.4476	33.4476	1.8800e-003	0.0000	33.4947
Total	**0.2890**	**0.1597**	**0.2371**	**3.9000e-004**		**7.9800e-003**	**7.9800e-003**		**7.9800e-003**	**7.9800e-003**	**0.0000**	**33.4476**	**33.4476**	**1.8800e-003**	**0.0000**	**33.4947**

3.6 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0137	7.8200e-003	0.0921	3.1000e-004	0.0380	2.5000e-004	0.0383	0.0101	2.3000e-004	0.0103	0.0000	28.2378	28.2378	5.9000e-004	0.0000	28.2526
Total	**0.0137**	**7.8200e-003**	**0.0921**	**3.1000e-004**	**0.0380**	**2.5000e-004**	**0.0383**	**0.0101**	**2.3000e-004**	**0.0103**	**0.0000**	**28.2378**	**28.2378**	**5.9000e-004**	**0.0000**	**28.2526**

3.6 Architectural Coating - 2025

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	0.2643					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3200	33.3200	1.8200e-003	0.0000	33.3654
Total	**0.2866**	**0.1495**	**0.2361**	**3.9000e-004**		**6.7200e-003**	**6.7200e-003**		**6.7200e-003**	**6.7200e-003**	**0.0000**	**33.3200**	**33.3200**	**1.8200e-003**	**0.0000**	**33.3654**

3.6 Architectural Coating - 2025

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	0.0129	7.1100e-003	0.0851	3.0000e-004	0.0379	2.5000e-004	0.0381	0.0101	2.3000e-004	0.0103	0.0000	26.9925	26.9925	5.4000e-004	0.0000	27.0060
Total	**0.0129**	**7.1100e-003**	**0.0851**	**3.0000e-004**	**0.0379**	**2.5000e-004**	**0.0381**	**0.0101**	**2.3000e-004**	**0.0103**	**0.0000**	**26.9925**	**26.9925**	**5.4000e-004**	**0.0000**	**27.0060**

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	0.2643					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3199	33.3199	1.8200e-003	0.0000	33.3654
Total	**0.2866**	**0.1495**	**0.2361**	**3.9000e-004**		**6.7200e-003**	**6.7200e-003**		**6.7200e-003**	**6.7200e-003**	**0.0000**	**33.3199**	**33.3199**	**1.8200e-003**	**0.0000**	**33.3654**

3.6 Architectural Coating - 2025

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	0.0129	7.1100e-003	0.0851	3.0000e-004	0.0379	2.5000e-004	0.0381	0.0101	2.3000e-004	0.0103	0.0000	26.9925	26.9925	5.4000e-004	0.0000	27.0060
Total	**0.0129**	**7.1100e-003**	**0.0851**	**3.0000e-004**	**0.0379**	**2.5000e-004**	**0.0381**	**0.0101**	**2.3000e-004**	**0.0103**	**0.0000**	**26.9925**	**26.9925**	**5.4000e-004**	**0.0000**	**27.0060**

3.6 Architectural Coating - 2026

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	0.2198					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0185	0.1243	0.1963	3.2000e-004		5.5900e-003	5.5900e-003		5.5900e-003	5.5900e-003	0.0000	27.7028	27.7028	1.5100e-003	0.0000	27.7406
Total	**0.2383**	**0.1243**	**0.1963**	**3.2000e-004**		**5.5900e-003**	**5.5900e-003**		**5.5900e-003**	**5.5900e-003**	**0.0000**	**27.7028**	**27.7028**	**1.5100e-003**	**0.0000**	**27.7406**

3.6 Architectural Coating - 2026

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	0.0103	5.4300e-003	0.0660	2.4000e-004	0.0315	2.0000e-004	0.0317	8.3700e-003	1.8000e-004	8.5500e-003	0.0000	21.6222	21.6222	4.1000e-004	0.0000	21.6324
Total	**0.0103**	**5.4300e-003**	**0.0660**	**2.4000e-004**	**0.0315**	**2.0000e-004**	**0.0317**	**8.3700e-003**	**1.8000e-004**	**8.5500e-003**	**0.0000**	**21.6222**	**21.6222**	**4.1000e-004**	**0.0000**	**21.6324**

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	0.2198					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0185	0.1243	0.1963	3.2000e-004		5.5900e-003	5.5900e-003		5.5900e-003	5.5900e-003	0.0000	27.7028	27.7028	1.5100e-003	0.0000	27.7406
Total	**0.2383**	**0.1243**	**0.1963**	**3.2000e-004**		**5.5900e-003**	**5.5900e-003**		**5.5900e-003**	**5.5900e-003**	**0.0000**	**27.7028**	**27.7028**	**1.5100e-003**	**0.0000**	**27.7406**

3.6 Architectural Coating - 2026

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	0.0103	5.4300e-003	0.0660	2.4000e-004	0.0315	2.0000e-004	0.0317	8.3700e-003	1.8000e-004	8.5500e-003	0.0000	21.6222	21.6222	4.1000e-004	0.0000	21.6324
Total	**0.0103**	**5.4300e-003**	**0.0660**	**2.4000e-004**	**0.0315**	**2.0000e-004**	**0.0317**	**8.3700e-003**	**1.8000e-004**	**8.5500e-003**	**0.0000**	**21.6222**	**21.6222**	**4.1000e-004**	**0.0000**	**21.6324**

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	0.3068	1.2077	3.6753	0.0150	1.6622	0.0114	1.6736	0.4445	0.0106	0.4551	0.0000	1,384.7318	1,384.7318	0.0508	0.0000	1,386.0011
Unmitigated	0.3068	1.2077	3.6753	0.0150	1.6622	0.0114	1.6736	0.4445	0.0106	0.4551	0.0000	1,384.7318	1,384.7318	0.0508	0.0000	1,386.0011

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	380.00	380.00	380.00	811,244	811,244
Golf Course	364.56	364.56	364.56	658,862	658,862
Other Asphalt Surfaces	0.00	0.00	0.00		
Retirement Community	1,058.96	1,058.96	1058.96	2,925,983	2,925,983
Total	1,803.52	1,803.52	1,803.52	4,396,089	4,396,089

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
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Golf Course	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Retirement Community	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.606220	0.039388	0.187721	0.099847	0.014851	0.005755	0.020359	0.018389	0.001198	0.001075	0.003720	0.000404	0.001073
Golf Course	0.606220	0.039388	0.187721	0.099847	0.014851	0.005755	0.020359	0.018389	0.001198	0.001075	0.003720	0.000404	0.001073
Other Asphalt Surfaces	0.606220	0.039388	0.187721	0.099847	0.014851	0.005755	0.020359	0.018389	0.001198	0.001075	0.003720	0.000404	0.001073
Retirement Community	0.606220	0.039388	0.187721	0.099847	0.014851	0.005755	0.020359	0.018389	0.001198	0.001075	0.003720	0.000404	0.001073

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive 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	343.7975	343.7975	0.0142	2.9400e-003	345.0275
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	343.7975	343.7975	0.0142	2.9400e-003	345.0275
NaturalGas Mitigated	0.0171	0.1458	0.0621	9.3000e-004		0.0118	0.0118		0.0118	0.0118	0.0000	168.8633	168.8633	3.2400e-003	3.1000e-003	169.8668
NaturalGas Unmitigated	0.0171	0.1458	0.0621	9.3000e-004		0.0118	0.0118		0.0118	0.0118	0.0000	168.8633	168.8633	3.2400e-003	3.1000e-003	169.8668

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Golf Course	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Retirement Community	3.16438e+006	0.0171	0.1458	0.0621	9.3000e-004		0.0118	0.0118		0.0118	0.0118	0.0000	168.8633	168.8633	3.2400e-003	3.1000e-003	169.8668
Total		**0.0171**	**0.1458**	**0.0621**	**9.3000e-004**		**0.0118**	**0.0118**		**0.0118**	**0.0118**	**0.0000**	**168.8633**	**168.8633**	**3.2400e-003**	**3.1000e-003**	**169.8668**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Golf Course	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Retirement Community	3.16438e+006	0.0171	0.1458	0.0621	9.3000e-004		0.0118	0.0118		0.0118	0.0118	0.0000	168.8633	168.8633	3.2400e-003	3.1000e-003	169.8668
Total		**0.0171**	**0.1458**	**0.0621**	**9.3000e-004**		**0.0118**	**0.0118**		**0.0118**	**0.0118**	**0.0000**	**168.8633**	**168.8633**	**3.2400e-003**	**3.1000e-003**	**169.8668**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Golf Course	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Retirement Community	1.07902e+006	343.7975	0.0142	2.9400e-003	345.0275
Total		**343.7975**	**0.0142**	**2.9400e-003**	**345.0275**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Golf Course	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Retirement Community	1.07902e+006	343.7975	0.0142	2.9400e-003	345.0275
Total		**343.7975**	**0.0142**	**2.9400e-003**	**345.0275**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

	ROG	NOx	CO	SO2	Fugitive 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	1.1499	0.0212	1.8400	1.0000e-004		0.0102	0.0102		0.0102	0.0102	0.0000	3.0085	3.0085	2.8800e-003	0.0000	3.0805
Unmitigated	1.1499	0.0212	1.8400	1.0000e-004		0.0102	0.0102		0.0102	0.0102	0.0000	3.0085	3.0085	2.8800e-003	0.0000	3.0805

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	0.1261					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9686					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0553	0.0212	1.8400	1.0000e-004		0.0102	0.0102		0.0102	0.0102	0.0000	3.0085	3.0085	2.8800e-003	0.0000	3.0805
Total	**1.1499**	**0.0212**	**1.8400**	**1.0000e-004**		**0.0102**	**0.0102**		**0.0102**	**0.0102**	**0.0000**	**3.0085**	**3.0085**	**2.8800e-003**	**0.0000**	**3.0805**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1261					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9686					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0553	0.0212	1.8400	1.0000e-004		0.0102	0.0102		0.0102	0.0102	0.0000	3.0085	3.0085	2.8800e-003	0.0000	3.0805
Total	**1.1499**	**0.0212**	**1.8400**	**1.0000e-004**		**0.0102**	**0.0102**		**0.0102**	**0.0102**	**0.0000**	**3.0085**	**3.0085**	**2.8800e-003**	**0.0000**	**3.0805**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	540.8095	1.1121	0.0303	577.6314
Unmitigated	578.1635	1.3860	0.0370	623.8409

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 9.05526	32.0546	1.3200e-003	2.7000e-004	32.1692
Golf Course	0 / 99.8142	353.3307	0.0146	3.0200e-003	354.5948
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Retirement Community	41.8202 / 1.69725	192.7782	1.3701	0.0337	237.0769
Total		**578.1635**	**1.3860**	**0.0370**	**623.8409**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 9.05526	32.0546	1.3200e-003	2.7000e-004	32.1692
Golf Course	0 / 99.8142	353.3307	0.0146	3.0200e-003	354.5948
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Retirement Community	33.4562 / 1.69725	155.4242	1.0962	0.0270	190.8674
Total		**540.8095**	**1.1121**	**0.0303**	**577.6314**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	7.7926	0.4605	0.0000	19.3058
Unmitigated	23.6139	1.3955	0.0000	58.5025

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.65	0.1319	7.8000e-003	0.0000	0.3269
Golf Course	1.6	0.3248	0.0192	0.0000	0.8046
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Retirement Community	114.08	23.1572	1.3686	0.0000	57.3710
Total		**23.6139**	**1.3955**	**0.0000**	**58.5025**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.2145	0.0435	2.5700e-003	0.0000	0.1079
Golf Course	0.528	0.1072	6.3300e-003	0.0000	0.2655
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Retirement Community	37.6464	7.6419	0.4516	0.0000	18.9324
Total		**7.7926**	**0.4605**	**0.0000**	**19.3058**

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

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** Lakes Environmental AERMOD MPI
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**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.9.0
** Lakes Environmental Software Inc.
** Date: 6/25/2020
** File: C:\Lakes\AERMOD View\Camarillo Construction HRA Year 2021\Camarillo Construction HRA Year 2021.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Lakes\AERMOD View\Camarillo Construction HRA Year 2021\Camarillo
   TITLETWO Camarillo Construction DPM Year 2021
   MODELOPT DFAULT CONC
   AVERTIME PERIOD
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "Camarillo Construction HRA Year 2021.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION PAREA1       AREAPOLY   315711.985  3786684.686       33.160
** DESCRSRC Area of disturbance
** Source Parameters **
   SRCPARAM PAREA1        1.09E-08     3.660       139
   AREAVERT PAREA1       315711.985 3786684.686 315986.889 3786676.601
   AREAVERT PAREA1       316266.645 3786676.601 316366.904 3786668.515
   AREAVERT PAREA1       316607.850 3786653.961 316651.511 3786644.259
   AREAVERT PAREA1       316724.280 3786631.322 316780.878 3786623.237
   AREAVERT PAREA1       316826.157 3786620.003 316881.138 3786597.363
   AREAVERT PAREA1       316918.331 3786568.256 316926.416 3786547.234
   AREAVERT PAREA1       316916.713 3786534.297 316894.074 3786526.212
   AREAVERT PAREA1       316858.498 3786508.424 316814.837 3786484.167
   AREAVERT PAREA1       316787.124 3786462.483 316774.926 3786439.522
   AREAVERT PAREA1       316752.683 3786365.617 316850.266 3786334.764
   AREAVERT PAREA1       316831.610 3786295.300 316856.006 3786284.537
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AREAVERT PAREA1       316937.086 3786227.136 316967.222 3786220.678
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AREAVERT PAREA1       317083.460 3786227.136 317107.138 3786213.503
AREAVERT PAREA1       317129.381 3786213.503 317163.105 3786191.977
AREAVERT PAREA1       317246.337 3786130.270 317308.044 3786095.829
AREAVERT PAREA1       317358.270 3786072.151 317354.683 3786049.908
AREAVERT PAREA1       317348.225 3786031.253 317331.722 3786010.444
AREAVERT PAREA1       317315.937 3786001.834 317297.048 3786013.396
AREAVERT PAREA1       317279.940 3786010.285 317250.909 3786014.951
AREAVERT PAREA1       317058.060 3786067.311 317040.952 3786069.903
AREAVERT PAREA1       317010.885 3786077.160 316969.930 3786077.160
AREAVERT PAREA1       316930.531 3786076.124 316915.497 3786101.526
AREAVERT PAREA1       316890.613 3786117.078 316849.140 3786128.483
AREAVERT PAREA1       316783.302 3786149.220 316779.154 3786139.370
AREAVERT PAREA1       316751.678 3786148.701 316720.574 3786159.070
AREAVERT PAREA1       316693.098 3786167.364 316657.846 3786174.622
AREAVERT PAREA1       316629.852 3786176.696 316602.376 3786177.732
AREAVERT PAREA1       316556.237 3786172.030 316505.951 3786159.588
AREAVERT PAREA1       316461.886 3786145.072 316439.594 3786138.333
AREAVERT PAREA1       316421.968 3786133.667 316401.232 3786133.149
AREAVERT PAREA1       316380.495 3786125.373 316358.722 3786113.968
AREAVERT PAREA1       316348.354 3786097.379 316329.691 3786097.897
AREAVERT PAREA1       316295.476 3786092.713 316284.071 3786088.047
AREAVERT PAREA1       316275.776 3786082.863 316295.476 3786048.648
AREAVERT PAREA1       316299.623 3786025.838 316280.960 3786018.580
AREAVERT PAREA1       316239.487 3785996.288 316215.640 3785967.257
AREAVERT PAREA1       316190.238 3785943.929 316167.946 3785910.232
AREAVERT PAREA1       316162.244 3785898.308 316160.170 3785889.495
AREAVERT PAREA1       316167.946 3785873.943 316185.054 3785851.651
AREAVERT PAREA1       316204.235 3785815.362 316219.269 3785786.331
AREAVERT PAREA1       316231.711 3785754.708 316234.822 3785727.232
AREAVERT PAREA1       316233.785 3785687.833 316234.822 3785642.731
AREAVERT PAREA1       316228.082 3785606.442 316206.827 3785583.114
AREAVERT PAREA1       316169.502 3785569.117 316128.029 3785566.525
AREAVERT PAREA1       315705.004 3785533.346 315705.523 3785951.705
AREAVERT PAREA1       315693.599 3786111.894 315886.967 3786171.511
AREAVERT PAREA1       315920.145 3786164.254 316090.185 3786084.418
AREAVERT PAREA1       316202.680 3786081.308 316234.303 3786116.560
AREAVERT PAREA1       316250.892 3786101.007 316273.184 3786110.857
AREAVERT PAREA1       316259.187 3786139.370 316255.558 3786149.220
AREAVERT PAREA1       316262.816 3786171.511 316270.074 3786183.953
AREAVERT PAREA1       316290.292 3786198.987 316329.173 3786224.908
AREAVERT PAREA1       316343.688 3786247.200 316354.575 3786260.160
AREAVERT PAREA1       316359.759 3786299.041 316359.759 3786327.035
AREAVERT PAREA1       316354.056 3786359.695 316337.986 3786393.392
AREAVERT PAREA1       316315.175 3786421.386 316288.736 3786438.494
AREAVERT PAREA1       316270.592 3786449.380 316248.300 3786456.638
AREAVERT PAREA1       316218.751 3786462.341 316161.725 3786462.859
AREAVERT PAREA1       316104.700 3786463.377 316063.227 3786463.377
AREAVERT PAREA1       316030.049 3786464.414 316011.904 3786467.525
AREAVERT PAREA1       316003.091 3786469.080 315992.205 3786479.448
```

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   AREAVERT PAREA1       315985.465 3786504.850 315981.836 3786521.440
   AREAVERT PAREA1       315974.579 3786530.771 315956.953 3786531.289
   AREAVERT PAREA1       315950.213 3786529.734 315939.845 3786529.216
   AREAVERT PAREA1       315939.845 3786533.363 315920.664 3786532.326
   AREAVERT PAREA1       315918.590 3786544.768 315921.182 3786550.989
   AREAVERT PAREA1       315925.848 3786559.284 315923.774 3786576.391
   AREAVERT PAREA1       315917.035 3786586.760 315899.927 3786596.091
   AREAVERT PAREA1       315702.412 3786639.638
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "Camarillo Construction HRA Year 2021.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE "E:\New MET data\Elrio 2015-2017.SFC"
   PROFFILE "E:\New MET data\Elrio 2015-2017.PFL"
   SURFDATA 93110 2015
   UAIRDATA 93214 2015
   SITEDATA 56436 2015
   PROFBASE 40.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE PERIOD ALL "Camarillo Construction HRA Year 2021.AD\PE00GALL.PLT" 31
   SUMMFILE "Camarillo Construction HRA Year 2021.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

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

 A Total of            0 Fatal Error Message(s)
```

```
A Total of            2 Warning Message(s)
A Total of            0 Informational Message(s)


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


   ********   WARNING MESSAGES   ********
ME W186     134       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
MX W403     134       PFLCNV: Turbulence data is being used w/o ADJ_U* option      SigA Data

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


*** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD View\Camarillo Construction HRA Year 2021\Camarillo  ***        06/25/20
*** AERMET - VERSION  18081 ***   *** Camarillo Construction DPM Year 2021                                 ***        18:02:22
                                                                                                                    PAGE   1
*** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  SigA Data

                                          ***     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:
        CCVR_Sub - Meteorological data includes CCVR substitutions
        TEMP_Sub - Meteorological data includes TEMP substitutions

**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of:  DPM

**Model Calculates PERIOD Averages Only
```

```
**This Run Includes:      1 Source(s);       1 Source Group(s); and     455 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 RLINE/RLINEXT source(s)
                and:      0 OPENPIT source(s)
                and:      0 BUOYANT LINE source(s) with      0 line(s)


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

**The AERMET Input Meteorological Data Version Date:  18081

**Output Options Selected:
         Model Outputs Tables of PERIOD Averages by Receptor
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing Hours

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =    40.00 ;  Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                                ;  Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =      3.6 MB of RAM.

**Input Runstream File:          aermod.inp
**Output Print File:             aermod.out

**Detailed Error/Message File:   Camarillo Construction HRA Year 2021.err
**File for Summary of Results:   Camarillo Construction HRA Year 2021.sum

*** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD View\Camarillo Construction HRA Year 2021\Camarillo  ***        06/25/20
*** AERMET - VERSION  18081 ***   *** Camarillo Construction DPM Year 2021                                ***        18:02:22
                                                                                                                    PAGE   2
*** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  SigA Data


                                          *** 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
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

```
PAREA1           0   0.10900E-07  315712.0 3786684.7    33.2     3.66     139         0.00     NO

*** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD View\Camarillo Construction HRA Year 2021\Camarillo  ***        06/25/20
*** AERMET - VERSION  18081 ***   *** Camarillo Construction DPM Year 2021                                  ***        18:02:22
                                                                                                                      PAGE   3
*** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  SigA Data


                                        *** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID                                          SOURCE IDs
-----------                                          ----------


 ALL        PAREA1      ,

*** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD View\Camarillo Construction HRA Year 2021\Camarillo  ***        06/25/20
*** AERMET - VERSION  18081 ***   *** Camarillo Construction DPM Year 2021                                  ***        18:02:22
                                                                                                                      PAGE   4
*** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  SigA Data

                                     *** GRIDDED RECEPTOR NETWORK SUMMARY ***

                                  *** NETWORK ID: UCART1   ;  NETWORK TYPE: GRIDCART ***

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

      315651.6,  315763.6,  315875.6,  315987.7,  316099.7,  316211.7,  316323.8,  316435.8,  316547.8,  316659.8,
      316771.9,  316883.9,  316995.9,  317108.0,  317220.0,  317332.0,  317444.0,  317556.1,  317668.1,  317780.1,
      317892.2,

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

     3785502.1, 3785565.2, 3785628.4, 3785691.5, 3785754.7, 3785817.8, 3785880.9, 3785944.1, 3786007.2, 3786070.4,
     3786133.5, 3786196.6, 3786259.8, 3786322.9, 3786386.1, 3786449.2, 3786512.3, 3786575.5, 3786638.6, 3786701.8,
     3786764.9,

*** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD View\Camarillo Construction HRA Year 2021\Camarillo  ***        06/25/20
*** AERMET - VERSION  18081 ***   *** Camarillo Construction DPM Year 2021                                  ***        18:02:22
                                                                                                                      PAGE   5
*** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  SigA Data

                                  *** NETWORK ID: UCART1   ;  NETWORK TYPE: GRIDCART ***

                                       * ELEVATION HEIGHTS IN METERS *

   Y-COORD  |                                          X-COORD (METERS)
   (METERS) |     315651.57    315763.60    315875.63    315987.66    316099.69    316211.72    316323.75    316435.78    316547.81
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

3786764.90	34.40	33.90	33.80	33.70	33.40	33.60	33.70	34.00	34.90
3786701.76	33.60	32.70	34.80	33.50	34.00	33.90	33.60	33.80	33.80
3786638.62	33.60	49.70	44.20	35.00	33.50	33.80	32.90	33.70	33.40
3786575.48	33.40	57.70	60.10	35.40	33.50	33.70	33.80	33.90	33.80
3786512.34	51.30	68.00	65.20	35.60	33.50	33.30	33.60	33.60	32.60
3786449.20	50.50	81.70	69.00	39.10	35.30	35.80	35.50	33.30	33.80
3786386.06	43.40	75.40	70.70	55.30	38.70	45.50	38.40	34.30	33.80
3786322.92	41.60	71.10	81.80	71.60	57.50	60.60	38.20	33.60	33.90
3786259.78	34.10	71.40	75.60	67.20	84.10	57.90	36.90	33.80	34.40
3786196.64	32.10	62.40	52.70	49.30	79.60	53.70	38.20	33.70	34.80
3786133.50	32.10	43.30	35.60	35.30	58.30	65.60	42.80	37.00	35.60
3786070.36	32.00	33.60	32.80	32.00	37.60	54.90	51.50	38.50	36.50
3786007.22	32.30	33.50	32.90	31.20	33.20	42.00	68.80	50.20	40.10
3785944.08	32.30	30.50	32.70	33.70	34.60	44.90	77.70	75.50	45.30
3785880.94	32.20	31.10	32.80	32.50	37.40	57.00	84.90	82.60	61.10
3785817.80	32.10	30.50	32.90	33.70	42.00	59.60	93.50	94.70	100.50
3785754.66	32.80	31.30	32.80	36.00	44.80	57.20	96.20	121.80	120.80
3785691.52	32.60	31.00	32.60	38.40	50.00	60.50	102.60	145.60	134.90
3785628.38	31.90	30.40	33.50	44.00	55.80	70.80	95.40	163.00	167.70
3785565.24	31.60	31.10	44.60	67.60	72.60	81.70	95.20	163.90	201.20
3785502.10	31.80	35.70	61.90	112.40	108.80	105.10	124.50	153.10	234.60

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 316659.84	316771.87	316883.90	316995.93	317107.96	317219.99	317332.02	317444.05	317556.08
3786764.90	40.10	52.60	53.80	52.60	64.80	58.00	51.60	51.10	52.10
3786701.76	35.30	40.30	44.20	46.60	51.20	57.60	61.90	61.30	63.30
3786638.62	34.10	34.70	37.10	41.00	46.00	50.60	64.80	72.50	84.90
3786575.48	34.20	34.30	36.10	40.40	43.00	49.10	55.40	77.00	89.40
3786512.34	35.20	35.30	37.50	40.00	43.30	48.70	56.10	73.20	92.40
3786449.20	35.10	35.80	38.30	40.30	44.40	50.00	70.60	77.70	91.80
3786386.06	36.30	36.60	39.20	44.30	44.70	50.80	79.40	79.40	85.70
3786322.92	36.20	37.20	40.90	45.60	46.60	50.20	74.50	75.20	78.00
3786259.78	34.90	36.90	40.00	46.60	47.00	49.50	57.70	64.80	86.20
3786196.64	35.50	37.50	38.40	42.10	43.10	49.60	53.00	61.50	94.80
3786133.50	36.10	38.70	40.70	41.40	44.20	45.60	53.10	68.70	98.60
3786070.36	37.50	39.60	42.00	43.70	47.00	47.80	50.20	66.50	85.40
3786007.22	41.50	42.00	44.20	46.20	49.10	52.40	54.10	55.20	65.90
3785944.08	50.20	55.20	51.80	51.00	52.90	56.80	56.80	58.80	58.50
3785880.94	62.60	65.40	92.00	84.40	65.40	69.40	69.20	61.00	60.60

3785817.80	77.10	76.30	127.80	123.10	84.90	82.90	84.20	72.80	65.10
3785754.66	121.70	119.90	168.10	149.00	98.90	99.90	97.90	84.30	79.80
3785691.52	147.00	158.80	199.20	175.80	121.60	122.10	112.60	111.70	88.20
3785628.38	173.50	185.60	210.40	200.40	157.20	137.90	127.90	140.80	113.30
3785565.24	208.70	217.60	233.50	222.30	190.00	155.80	142.70	172.30	149.10
3785502.10	252.90	256.30	266.00	245.20	195.80	180.10	165.40	212.70	187.90

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 317668.11	317780.14	317892.17
3786764.90	54.00	56.70	59.20
3786701.76	58.00	59.20	62.50
3786638.62	68.00	70.50	78.10
3786575.48	78.90	88.10	94.20
3786512.34	95.00	111.00	107.80
3786449.20	109.30	133.90	115.70
3786386.06	107.70	131.60	130.30
3786322.92	100.00	111.80	133.30
3786259.78	94.90	107.80	116.90
3786196.64	89.50	89.50	109.60
3786133.50	85.80	80.40	96.60
3786070.36	77.50	77.70	89.60
3786007.22	69.00	75.20	89.90
3785944.08	65.40	72.00	87.80
3785880.94	61.20	69.80	90.10
3785817.80	65.30	68.80	94.60
3785754.66	85.60	69.50	101.20
3785691.52	111.30	89.30	101.00
3785628.38	130.90	118.30	116.10
3785565.24	142.60	131.40	138.00
3785502.10	178.70	158.30	159.00

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	315651.57	315763.60	315875.63	315987.66	316099.69	316211.72	316323.75	316435.78	316547.81
3786764.90	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786701.76	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786638.62	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786575.48	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786512.34	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786449.20	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786386.06	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786322.92	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786259.78	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786196.64	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786133.50	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786070.36	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786007.22	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785944.08	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785880.94	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785817.80	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785754.66	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785691.52	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785628.38	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785565.24	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785502.10	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	316659.84	316771.87	316883.90	316995.93	317107.96	317219.99	317332.02	317444.05	317556.08
3786764.90	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786701.76	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786638.62	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786575.48	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786512.34	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786449.20	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786386.06	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786322.92	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786259.78	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786196.64	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786133.50	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786070.36	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30

3786007.22	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785944.08	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785880.94	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785817.80	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785754.66	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785691.52	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785628.38	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785565.24	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785502.10	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 317668.11	317780.14	317892.17
3786764.90	548.30	548.30	548.30
3786701.76	548.30	548.30	548.30
3786638.62	548.30	548.30	548.30
3786575.48	548.30	548.30	548.30
3786512.34	548.30	548.30	548.30
3786449.20	548.30	548.30	548.30
3786386.06	548.30	548.30	548.30
3786322.92	548.30	548.30	548.30
3786259.78	548.30	548.30	548.30
3786196.64	548.30	548.30	548.30
3786133.50	548.30	548.30	548.30
3786070.36	548.30	548.30	548.30
3786007.22	548.30	548.30	548.30
3785944.08	548.30	548.30	548.30
3785880.94	548.30	548.30	548.30
3785817.80	548.30	548.30	548.30
3785754.66	548.30	548.30	548.30
3785691.52	548.30	548.30	548.30
3785628.38	548.30	548.30	548.30
3785565.24	548.30	548.30	548.30
3785502.10	548.30	548.30	548.30

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** DISCRETE CARTESIAN RECEPTORS ***

(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```
    ( 315977.2, 3786506.5,      36.0,     548.3,       0.0);        ( 316073.9, 3786455.6,      35.4,     548.3,       0.0);
    ( 316103.8, 3786353.9,      46.4,     548.3,       0.0);        ( 316345.7, 3786329.8,      35.8,     548.3,       0.0);
    ( 316291.1, 3786080.1,      49.4,     548.3,       0.0);        ( 316738.8, 3786112.9,      38.0,     548.3,       0.0);
    ( 316531.2, 3786156.1,      35.4,     548.3,       0.0);        ( 316601.9, 3786075.5,      37.0,     548.3,       0.0);
    ( 316517.2, 3785929.1,      49.4,     548.3,       0.0);        ( 316787.0, 3786440.5,      36.8,     548.3,       0.0);
    ( 316915.7, 3786253.6,      42.4,     548.3,       0.0);        ( 317331.3, 3786101.4,      51.6,     548.3,       0.0);
    ( 317372.0, 3786043.9,      54.4,     548.3,       0.0);        ( 317043.4, 3786060.1,      45.3,     548.3,       0.0);
```


*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

```
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54,   3.09,   5.14,   8.23, 10.80,

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

```
  Surface file:   E:\New MET data\Elrio 2015-2017.SFC                                    Met Version:  18081
  Profile file:   E:\New MET data\Elrio 2015-2017.PFL
  Surface format: FREE
  Profile format: FREE
  Surface station no.:    93110                Upper air station no.:    93214
                Name: UNKNOWN                                Name: UNKNOWN
                Year:   2015                                 Year:   2015
```

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
15	01	01	1	01	-37.2	0.321	-9.000	-9.000	-999.	437.	80.7	0.14	0.88	1.00	3.90	16.	10.0	275.6	10.0
15	01	01	1	02	-44.7	0.386	-9.000	-9.000	-999.	575.	116.3	0.14	0.88	1.00	4.50	13.	10.0	275.5	10.0
15	01	01	1	03	-53.1	0.458	-9.000	-9.000	-999.	744.	163.7	0.14	0.88	1.00	5.20	15.	10.0	275.1	10.0
15	01	01	1	04	-56.6	0.489	-9.000	-9.000	-999.	819.	186.2	0.14	0.88	1.00	5.50	17.	10.0	275.2	10.0
15	01	01	1	05	-52.0	0.448	-9.000	-9.000	-999.	722.	156.2	0.14	0.88	1.00	5.10	21.	10.0	274.8	10.0
15	01	01	1	06	-54.4	0.468	-9.000	-9.000	-999.	769.	170.6	0.14	0.88	1.00	5.30	12.	10.0	274.6	10.0
15	01	01	1	07	-46.1	0.396	-9.000	-9.000	-999.	603.	122.3	0.14	0.88	1.00	4.60	11.	10.0	274.9	10.0
15	01	01	1	08	-39.5	0.392	-9.000	-9.000	-999.	588.	137.9	0.14	0.88	0.58	4.50	6.	10.0	275.2	10.0
15	01	01	1	09	16.2	0.525	0.278	0.008	48.	913.	-809.4	0.14	0.88	0.34	5.50	14.	10.0	276.4	10.0
15	01	01	1	10	61.9	0.414	0.508	0.008	77.	650.	-103.9	0.14	0.88	0.25	4.10	9.	10.0	279.4	10.0
15	01	01	1	11	94.7	0.405	1.189	0.008	644.	619.	-63.6	0.14	0.88	0.22	3.90	15.	10.0	282.9	10.0
15	01	01	1	12	112.0	0.193	1.401	0.009	890.	247.	-5.8	0.14	0.88	0.21	1.40	2.	10.0	286.1	10.0
15	01	01	1	13	112.3	0.201	1.415	0.008	915.	217.	-6.6	0.18	0.88	0.21	1.40	239.	10.0	287.2	10.0
15	01	01	1	14	96.0	0.207	1.354	0.007	936.	226.	-8.3	0.22	0.88	0.22	1.40	199.	10.0	287.6	10.0
15	01	01	1	15	63.8	0.280	1.187	0.007	949.	355.	-31.1	0.18	0.88	0.25	2.40	225.	10.0	287.4	10.0
15	01	01	1	16	18.5	0.280	0.786	0.007	953.	357.	-108.2	0.22	0.88	0.34	2.50	203.	10.0	286.9	10.0
15	01	01	1	17	-9.5	0.108	-9.000	-9.000	-999.	116.	11.8	0.20	0.88	0.58	2.10	245.	10.0	285.6	10.0
15	01	01	1	18	-1.1	0.035	-9.000	-9.000	-999.	27.	3.6	0.19	0.88	1.00	0.70	277.	10.0	284.0	10.0
15	01	01	1	19	-6.7	0.086	-9.000	-9.000	-999.	61.	8.7	0.20	0.88	1.00	1.70	33.	10.0	281.0	10.0
15	01	01	1	20	-6.8	0.085	-9.000	-9.000	-999.	60.	8.2	0.14	0.88	1.00	1.80	19.	10.0	278.8	10.0
15	01	01	1	21	-21.0	0.182	-9.000	-9.000	-999.	187.	26.2	0.14	0.88	1.00	2.80	19.	10.0	278.1	10.0
15	01	01	1	22	-29.1	0.252	-9.000	-9.000	-999.	304.	50.1	0.14	0.88	1.00	3.30	12.	10.0	277.9	10.0
15	01	01	1	23	-22.8	0.198	-9.000	-9.000	-999.	213.	30.9	0.14	0.88	1.00	2.90	11.	10.0	277.5	10.0
15	01	01	1	24	-31.8	0.276	-9.000	-9.000	-999.	349.	60.0	0.14	0.88	1.00	3.50	13.	10.0	277.5	10.0

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
15	01	01	01	10.0	1	16.	3.90	275.7	11.2	-99.00	0.75

F indicates top of profile (=1) or below (=0)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS)								
	315651.57	315763.60	315875.63	315987.66	316099.69	316211.72	316323.75	316435.78	316547.81

3786764.90	0.07295	0.08282	0.09515	0.10522	0.11311	0.11935	0.12273	0.12290	0.12118
3786701.76	0.08501	0.10100	0.12962	0.13886	0.15180	0.15999	0.16214	0.15923	0.15247
3786638.62	0.09137	0.01805	0.04375	0.18685	0.18951	0.20251	0.19763	0.20303	0.19592
3786575.48	0.09362	0.00825	0.00869	0.22545	0.21852	0.23359	0.23822	0.23859	0.23261
3786512.34	0.01171	0.00420	0.00626	0.23300	0.23391	0.24820	0.25712	0.26346	0.24385
3786449.20	0.01329	0.00261	0.00513	0.14594	0.24228	0.27253	0.30269	0.28340	0.28913
3786386.06	0.04135	0.00292	0.00479	0.01653	0.16917	0.05365	0.22651	0.31187	0.31211
3786322.92	0.05699	0.00340	0.00367	0.00711	0.01657	0.01545	0.23773	0.32528	0.33138
3786259.78	0.11097	0.00352	0.00468	0.00943	0.00756	0.01997	0.31461	0.34449	0.34496
3786196.64	0.11398	0.00634	0.02015	0.03647	0.01009	0.02918	0.26946	0.34373	0.33283
3786133.50	0.12793	0.06216	0.26149	0.25508	0.02413	0.01865	0.12911	0.35933	0.28623
3786070.36	0.14088	0.21684	0.24969	0.23978	0.30288	0.03873	0.05341	0.22144	0.24068
3786007.22	0.15795	0.24845	0.27861	0.25131	0.28195	0.13567	0.02055	0.04681	0.14292
3785944.08	0.17207	0.22800	0.29294	0.31251	0.31330	0.09125	0.01469	0.01341	0.06500
3785880.94	0.18254	0.24904	0.31163	0.30517	0.39288	0.03507	0.01251	0.01086	0.01791
3785817.80	0.19011	0.25495	0.32622	0.33978	0.13642	0.03221	0.01090	0.00837	0.00621
3785754.66	0.20534	0.27028	0.32928	0.41479	0.09654	0.03543	0.00976	0.00557	0.00428
3785691.52	0.20448	0.26964	0.32360	0.28608	0.06050	0.02978	0.00766	0.00368	0.00306
3785628.38	0.19402	0.26113	0.33187	0.10679	0.04029	0.01923	0.00574	0.00247	0.00199
3785565.24	0.18421	0.25426	0.09521	0.02126	0.01606	0.00832	0.00421	0.00203	0.00143
3785502.10	0.17630	0.26746	0.02269	0.00702	0.00659	0.00437	0.00274	0.00197	0.00113

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 316659.84	316771.87	316883.90	316995.93	317107.96	317219.99	317332.02	317444.05	317556.08
3786764.90	0.07729	0.01834	0.01748	0.01917	0.01006	0.01280	0.01792	0.01728	0.01486
3786701.76	0.14775	0.08504	0.04868	0.03613	0.02243	0.01352	0.00989	0.00922	0.00775
3786638.62	0.18632	0.16811	0.14541	0.07286	0.03583	0.02087	0.00865	0.00609	0.00421
3786575.48	0.22073	0.19673	0.19267	0.07720	0.04714	0.02280	0.01314	0.00536	0.00389
3786512.34	0.27565	0.24455	0.17780	0.07529	0.04409	0.02291	0.01229	0.00578	0.00371
3786449.20	0.29609	0.26994	0.12517	0.07232	0.03808	0.01996	0.00680	0.00515	0.00370
3786386.06	0.38351	0.26313	0.11221	0.04322	0.03569	0.01828	0.00562	0.00501	0.00396
3786322.92	0.38871	0.31619	0.08572	0.03637	0.02846	0.01920	0.00646	0.00550	0.00439
3786259.78	0.32375	0.38140	0.09921	0.03309	0.02869	0.02158	0.01139	0.00713	0.00363
3786196.64	0.31407	0.29472	0.14568	0.05725	0.04655	0.02293	0.01444	0.00761	0.00297
3786133.50	0.25929	0.15844	0.07804	0.06134	0.03927	0.02961	0.01432	0.00563	0.00227
3786070.36	0.20701	0.12027	0.05982	0.03921	0.02542	0.02136	0.01616	0.00418	0.00174

3786007.22	0.10040	0.07372	0.04102	0.02776	0.01883	0.01191	0.00743	0.00409	0.00199
3785944.08	0.03178	0.01681	0.01709	0.01621	0.01253	0.00790	0.00452	0.00253	0.00234
3785880.94	0.01333	0.00870	0.00374	0.00369	0.00545	0.00385	0.00207	0.00190	0.00175
3785817.80	0.00691	0.00517	0.00228	0.00210	0.00277	0.00232	0.00120	0.00102	0.00122
3785754.66	0.00325	0.00247	0.00150	0.00150	0.00198	0.00155	0.00087	0.00071	0.00068
3785691.52	0.00219	0.00159	0.00113	0.00113	0.00140	0.00108	0.00069	0.00051	0.00054
3785628.38	0.00157	0.00120	0.00096	0.00090	0.00097	0.00084	0.00057	0.00043	0.00041
3785565.24	0.00116	0.00095	0.00080	0.00076	0.00074	0.00067	0.00048	0.00037	0.00035
3785502.10	0.00091	0.00078	0.00068	0.00065	0.00066	0.00054	0.00041	0.00032	0.00030

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 317668.11	317780.14	317892.17
3786764.90	0.01208	0.00946	0.00764
3786701.76	0.00921	0.00800	0.00630
3786638.62	0.00581	0.00491	0.00365
3786575.48	0.00420	0.00323	0.00269
3786512.34	0.00323	0.00252	0.00228
3786449.20	0.00281	0.00216	0.00205
3786386.06	0.00275	0.00205	0.00175
3786322.92	0.00275	0.00208	0.00152
3786259.78	0.00261	0.00184	0.00140
3786196.64	0.00233	0.00178	0.00118
3786133.50	0.00185	0.00160	0.00104
3786070.36	0.00157	0.00133	0.00094
3786007.22	0.00157	0.00116	0.00078
3785944.08	0.00149	0.00108	0.00069
3785880.94	0.00158	0.00100	0.00058
3785817.80	0.00112	0.00091	0.00049
3785754.66	0.00057	0.00080	0.00041
3785691.52	0.00042	0.00046	0.00038
3785628.38	0.00036	0.00035	0.00033
3785565.24	0.00032	0.00031	0.00029
3785502.10	0.00028	0.00028	0.00026

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
315977.16	3786506.51	0.23793	316073.87	3786455.61	0.24130
316103.82	3786353.86	0.04578	316345.71	3786329.82	0.32276
316291.15	3786080.08	0.06247	316738.76	3786112.89	0.21106
316531.24	3786156.06	0.31159	316601.88	3786075.50	0.22745
316517.23	3785929.15	0.04213	316786.97	3786440.53	0.26034
316915.70	3786253.62	0.06248	317331.26	3786101.43	0.01618
317372.02	3786043.88	0.00864	317043.41	3786060.07	0.03059

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE SUMMARY OF MAXIMUM PERIOD (26304 HRS) RESULTS ***

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

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	1ST HIGHEST VALUE IS	0.41479 AT (315987.66, 3785754.66, 36.00, 548.30, 0.00)	GC	UCART1
	2ND HIGHEST VALUE IS	0.39288 AT (316099.69, 3785880.94, 37.40, 548.30, 0.00)	GC	UCART1
	3RD HIGHEST VALUE IS	0.38871 AT (316659.84, 3786322.92, 36.20, 548.30, 0.00)	GC	UCART1
	4TH HIGHEST VALUE IS	0.38351 AT (316659.84, 3786386.06, 36.30, 548.30, 0.00)	GC	UCART1
	5TH HIGHEST VALUE IS	0.38140 AT (316771.87, 3786259.78, 36.90, 548.30, 0.00)	GC	UCART1
	6TH HIGHEST VALUE IS	0.35933 AT (316435.78, 3786133.50, 37.00, 548.30, 0.00)	GC	UCART1
	7TH HIGHEST VALUE IS	0.34496 AT (316547.81, 3786259.78, 34.40, 548.30, 0.00)	GC	UCART1
	8TH HIGHEST VALUE IS	0.34449 AT (316435.78, 3786259.78, 33.80, 548.30, 0.00)	GC	UCART1
	9TH HIGHEST VALUE IS	0.34373 AT (316435.78, 3786196.64, 33.70, 548.30, 0.00)	GC	UCART1
	10TH HIGHEST VALUE IS	0.33978 AT (315987.66, 3785817.80, 33.70, 548.30, 0.00)	GC	UCART1

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

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

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

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

A Total of   0 Fatal Error Message(s)
A Total of   2 Warning Message(s)
A Total of   213 Informational Message(s)

A Total of   26304 Hours Were Processed

A Total of   0 Calm Hours Identified

A Total of   213 Missing Hours Identified (0.81 Percent)

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

   ********   WARNING MESSAGES   ********
ME W186   134   MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used   0.50
MX W403   134   PFLCNV: Turbulence data is being used w/o ADJ_U* option   SigA Data

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

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** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.9.0
** Lakes Environmental Software Inc.
** Date: 6/25/2020
** File: C:\Lakes\AERMOD View\Camarillo Construction HRA Years 2022-2023\Camarillo Construction HRA Years 2022-2023.ADI
**
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** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE Camarillo Construction DPM
   TITLETWO Infant Exposure Years 2022-2023
   MODELOPT DFAULT CONC
   AVERTIME PERIOD
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "Camarillo Construction HRA Years 2022-2023.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION PAREA1       AREAPOLY   315711.985  3786684.686       33.160
** DESCRSRC Area of disturbance
** Source Parameters **
   SRCPARAM PAREA1       4.5655E-09     3.660       139
   AREAVERT PAREA1       315711.985 3786684.686 315986.889 3786676.601
   AREAVERT PAREA1       316266.645 3786676.601 316366.904 3786668.515
   AREAVERT PAREA1       316607.850 3786653.961 316651.511 3786644.259
   AREAVERT PAREA1       316724.280 3786631.322 316780.878 3786623.237
   AREAVERT PAREA1       316826.157 3786620.003 316881.138 3786597.363
   AREAVERT PAREA1       316918.331 3786568.256 316926.416 3786547.234
   AREAVERT PAREA1       316916.713 3786534.297 316894.074 3786526.212
   AREAVERT PAREA1       316858.498 3786508.424 316814.837 3786484.167
   AREAVERT PAREA1       316787.124 3786462.483 316774.926 3786439.522
   AREAVERT PAREA1       316752.683 3786365.617 316850.266 3786334.764
   AREAVERT PAREA1       316831.610 3786295.300 316856.006 3786284.537
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AREAVERT PAREA1       316937.086 3786227.136 316967.222 3786220.678
AREAVERT PAREA1       317026.776 3786217.808 317071.262 3786220.678
AREAVERT PAREA1       317083.460 3786227.136 317107.138 3786213.503
AREAVERT PAREA1       317129.381 3786213.503 317163.105 3786191.977
AREAVERT PAREA1       317246.337 3786130.270 317308.044 3786095.829
AREAVERT PAREA1       317358.270 3786072.151 317354.683 3786049.908
AREAVERT PAREA1       317348.225 3786031.253 317331.722 3786010.444
AREAVERT PAREA1       317315.937 3786001.834 317297.048 3786013.396
AREAVERT PAREA1       317279.940 3786010.285 317250.909 3786014.951
AREAVERT PAREA1       317058.060 3786067.311 317040.952 3786069.903
AREAVERT PAREA1       317010.885 3786077.160 316969.930 3786077.160
AREAVERT PAREA1       316930.531 3786076.124 316915.497 3786101.526
AREAVERT PAREA1       316890.613 3786117.078 316849.140 3786128.483
AREAVERT PAREA1       316783.302 3786149.220 316779.154 3786139.370
AREAVERT PAREA1       316751.678 3786148.701 316720.574 3786159.070
AREAVERT PAREA1       316693.098 3786167.364 316657.846 3786174.622
AREAVERT PAREA1       316629.852 3786176.696 316602.376 3786177.732
AREAVERT PAREA1       316556.237 3786172.030 316505.951 3786159.588
AREAVERT PAREA1       316461.886 3786145.072 316439.594 3786138.333
AREAVERT PAREA1       316421.968 3786133.667 316401.232 3786133.149
AREAVERT PAREA1       316380.495 3786125.373 316358.722 3786113.968
AREAVERT PAREA1       316348.354 3786097.379 316329.691 3786097.897
AREAVERT PAREA1       316295.476 3786092.713 316284.071 3786088.047
AREAVERT PAREA1       316275.776 3786082.863 316295.476 3786048.648
AREAVERT PAREA1       316299.623 3786025.838 316280.960 3786018.580
AREAVERT PAREA1       316239.487 3785996.288 316215.640 3785967.257
AREAVERT PAREA1       316190.238 3785943.929 316167.946 3785910.232
AREAVERT PAREA1       316162.244 3785898.308 316160.170 3785889.495
AREAVERT PAREA1       316167.946 3785873.943 316185.054 3785851.651
AREAVERT PAREA1       316204.235 3785815.362 316219.269 3785786.331
AREAVERT PAREA1       316231.711 3785754.708 316234.822 3785727.232
AREAVERT PAREA1       316233.785 3785687.833 316234.822 3785642.731
AREAVERT PAREA1       316228.082 3785606.442 316206.827 3785583.114
AREAVERT PAREA1       316169.502 3785569.117 316128.029 3785566.525
AREAVERT PAREA1       315705.004 3785533.346 315705.523 3785951.705
AREAVERT PAREA1       315693.599 3786111.894 315886.967 3786171.511
AREAVERT PAREA1       315920.145 3786164.254 316090.185 3786084.418
AREAVERT PAREA1       316202.680 3786081.308 316234.303 3786116.560
AREAVERT PAREA1       316250.892 3786101.007 316273.184 3786110.857
AREAVERT PAREA1       316259.187 3786139.370 316255.558 3786149.220
AREAVERT PAREA1       316262.816 3786171.511 316270.074 3786183.953
AREAVERT PAREA1       316290.292 3786198.987 316329.173 3786224.908
AREAVERT PAREA1       316343.688 3786247.200 316354.575 3786260.160
AREAVERT PAREA1       316359.759 3786299.041 316359.759 3786327.035
AREAVERT PAREA1       316354.056 3786359.695 316337.986 3786393.392
AREAVERT PAREA1       316315.175 3786421.386 316288.736 3786438.494
AREAVERT PAREA1       316270.592 3786449.380 316248.300 3786456.638
AREAVERT PAREA1       316218.751 3786462.341 316161.725 3786462.859
AREAVERT PAREA1       316104.700 3786463.377 316063.227 3786463.377
AREAVERT PAREA1       316030.049 3786464.414 316011.904 3786467.525
AREAVERT PAREA1       316003.091 3786469.080 315992.205 3786479.448
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   AREAVERT PAREA1       315985.465 3786504.850 315981.836 3786521.440
   AREAVERT PAREA1       315974.579 3786530.771 315956.953 3786531.289
   AREAVERT PAREA1       315950.213 3786529.734 315939.845 3786529.216
   AREAVERT PAREA1       315939.845 3786533.363 315920.664 3786532.326
   AREAVERT PAREA1       315918.590 3786544.768 315921.182 3786550.989
   AREAVERT PAREA1       315925.848 3786559.284 315923.774 3786576.391
   AREAVERT PAREA1       315917.035 3786586.760 315899.927 3786596.091
   AREAVERT PAREA1       315702.412 3786639.638
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "Camarillo Construction HRA Years 2022-2023.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE "E:\New MET data\Elrio 2015-2017.SFC"
   PROFFILE "E:\New MET data\Elrio 2015-2017.PFL"
   SURFDATA 93110 2015
   UAIRDATA 93214 2015
   SITEDATA 56436 2015
   PROFBASE 40.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE PERIOD ALL "CAMARILLO CONSTRUCTION HRA YEARS 2022-2023.AD\PE00GALL.PLT" 31
   SUMMFILE "Camarillo Construction HRA Years 2022-2023.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

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

 A Total of            0 Fatal Error Message(s)
```

```
A Total of            2 Warning Message(s)
A Total of            0 Informational Message(s)


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


   ********   WARNING MESSAGES   ********
ME W186     134       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
MX W403     134       PFLCNV: Turbulence data is being used w/o ADJ_U* option      SigA Data

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


*** AERMOD - VERSION  19191 ***   *** Camarillo Construction DPM                                        ***        06/25/20
*** AERMET - VERSION  18081 ***   *** Infant Exposure Years 2022-2023                                   ***        18:33:10
                                                                                                                 PAGE   1
*** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  SigA Data

                                          ***     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:
        CCVR_Sub - Meteorological data includes CCVR substitutions
        TEMP_Sub - Meteorological data includes TEMP substitutions

**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of:  DPM

**Model Calculates PERIOD Averages Only
```

```
**This Run Includes:      1 Source(s);       1 Source Group(s); and     455 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 RLINE/RLINEXT source(s)
                and:      0 OPENPIT source(s)
                and:      0 BUOYANT LINE source(s) with      0 line(s)


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

**The AERMET Input Meteorological Data Version Date:  18081

**Output Options Selected:
         Model Outputs Tables of PERIOD Averages by Receptor
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing Hours

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =    40.00 ;  Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                              ;  Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =      3.6 MB of RAM.

**Input Runstream File:          aermod.inp
**Output Print File:             aermod.out

**Detailed Error/Message File:   Camarillo Construction HRA Years 2022-2023.err
**File for Summary of Results:   Camarillo Construction HRA Years 2022-2023.sum

*** AERMOD - VERSION  19191 ***   *** Camarillo Construction DPM                                          ***        06/25/20
*** AERMET - VERSION  18081 ***   *** Infant Exposure Years 2022-2023                                     ***        18:33:10
                                                                                                                  PAGE   2
*** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  SigA Data


                                          *** 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
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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PAREA1           0   0.45655E-08  315712.0 3786684.7    33.2     3.66     139         0.00     NO

*** AERMOD - VERSION  19191 ***   *** Camarillo Construction DPM                                    ***        06/25/20
*** AERMET - VERSION  18081 ***   *** Infant Exposure Years 2022-2023                               ***        18:33:10
                                                                                                             PAGE   3
*** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  SigA Data


                                      *** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID                                          SOURCE IDs
-----------                                          ----------


 ALL        PAREA1      ,

*** AERMOD - VERSION  19191 ***   *** Camarillo Construction DPM                                    ***        06/25/20
*** AERMET - VERSION  18081 ***   *** Infant Exposure Years 2022-2023                               ***        18:33:10
                                                                                                             PAGE   4
*** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  SigA Data

                                   *** GRIDDED RECEPTOR NETWORK SUMMARY ***

                                *** NETWORK ID: UCART1   ;  NETWORK TYPE: GRIDCART ***

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

      315651.6,  315763.6,  315875.6,  315987.7,  316099.7,  316211.7,  316323.8,  316435.8,  316547.8,  316659.8,
      316771.9,  316883.9,  316995.9,  317108.0,  317220.0,  317332.0,  317444.0,  317556.1,  317668.1,  317780.1,
      317892.2,

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

     3785502.1, 3785565.2, 3785628.4, 3785691.5, 3785754.7, 3785817.8, 3785880.9, 3785944.1, 3786007.2, 3786070.4,
     3786133.5, 3786196.6, 3786259.8, 3786322.9, 3786386.1, 3786449.2, 3786512.3, 3786575.5, 3786638.6, 3786701.8,
     3786764.9,

*** AERMOD - VERSION  19191 ***   *** Camarillo Construction DPM                                    ***        06/25/20
*** AERMET - VERSION  18081 ***   *** Infant Exposure Years 2022-2023                               ***        18:33:10
                                                                                                             PAGE   5
*** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  SigA Data

                                *** NETWORK ID: UCART1   ;  NETWORK TYPE: GRIDCART ***

                                      * ELEVATION HEIGHTS IN METERS *

   Y-COORD  |                                          X-COORD (METERS)
   (METERS) |     315651.57    315763.60    315875.63    315987.66    316099.69    316211.72    316323.75    316435.78    316547.81
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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3786764.90	34.40	33.90	33.80	33.70	33.40	33.60	33.70	34.00	34.90
3786701.76	33.60	32.70	34.80	33.50	34.00	33.90	33.60	33.80	33.80
3786638.62	33.60	49.70	44.20	35.00	33.50	33.80	32.90	33.70	33.40
3786575.48	33.40	57.70	60.10	35.40	33.50	33.70	33.80	33.90	33.80
3786512.34	51.30	68.00	65.20	35.60	33.50	33.30	33.60	33.60	32.60
3786449.20	50.50	81.70	69.00	39.10	35.30	35.80	35.50	33.30	33.80
3786386.06	43.40	75.40	70.70	55.30	38.70	45.50	38.40	34.30	33.80
3786322.92	41.60	71.10	81.80	71.60	57.50	60.60	38.20	33.60	33.90
3786259.78	34.10	71.40	75.60	67.20	84.10	57.90	36.90	33.80	34.40
3786196.64	32.10	62.40	52.70	49.30	79.60	53.70	38.20	33.70	34.80
3786133.50	32.10	43.30	35.60	35.30	58.30	65.60	42.80	37.00	35.60
3786070.36	32.00	33.60	32.80	32.00	37.60	54.90	51.50	38.50	36.50
3786007.22	32.30	33.50	32.90	31.20	33.20	42.00	68.80	50.20	40.10
3785944.08	32.30	30.50	32.70	33.70	34.60	44.90	77.70	75.50	45.30
3785880.94	32.20	31.10	32.80	32.50	37.40	57.00	84.90	82.60	61.10
3785817.80	32.10	30.50	32.90	33.70	42.00	59.60	93.50	94.70	100.50
3785754.66	32.80	31.30	32.80	36.00	44.80	57.20	96.20	121.80	120.80
3785691.52	32.60	31.00	32.60	38.40	50.00	60.50	102.60	145.60	134.90
3785628.38	31.90	30.40	33.50	44.00	55.80	70.80	95.40	163.00	167.70
3785565.24	31.60	31.10	44.60	67.60	72.60	81.70	95.20	163.90	201.20
3785502.10	31.80	35.70	61.90	112.40	108.80	105.10	124.50	153.10	234.60

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 316659.84	316771.87	316883.90	316995.93	317107.96	317219.99	317332.02	317444.05	317556.08
3786764.90	40.10	52.60	53.80	52.60	64.80	58.00	51.60	51.10	52.10
3786701.76	35.30	40.30	44.20	46.60	51.20	57.60	61.90	61.30	63.30
3786638.62	34.10	34.70	37.10	41.00	46.00	50.60	64.80	72.50	84.90
3786575.48	34.20	34.30	36.10	40.40	43.00	49.10	55.40	77.00	89.40
3786512.34	35.20	35.30	37.50	40.00	43.30	48.70	56.10	73.20	92.40
3786449.20	35.10	35.80	38.30	40.30	44.40	50.00	70.60	77.70	91.80
3786386.06	36.30	36.60	39.20	44.30	44.70	50.80	79.40	79.40	85.70
3786322.92	36.20	37.20	40.90	45.60	46.60	50.20	74.50	75.20	78.00
3786259.78	34.90	36.90	40.00	46.60	47.00	49.50	57.70	64.80	86.20
3786196.64	35.50	37.50	38.40	42.10	43.10	49.60	53.00	61.50	94.80
3786133.50	36.10	38.70	40.70	41.40	44.20	45.60	53.10	68.70	98.60
3786070.36	37.50	39.60	42.00	43.70	47.00	47.80	50.20	66.50	85.40
3786007.22	41.50	42.00	44.20	46.20	49.10	52.40	54.10	55.20	65.90
3785944.08	50.20	55.20	51.80	51.00	52.90	56.80	56.80	58.80	58.50
3785880.94	62.60	65.40	92.00	84.40	65.40	69.40	69.20	61.00	60.60

3785817.80	77.10	76.30	127.80	123.10	84.90	82.90	84.20	72.80	65.10
3785754.66	121.70	119.90	168.10	149.00	98.90	99.90	97.90	84.30	79.80
3785691.52	147.00	158.80	199.20	175.80	121.60	122.10	112.60	111.70	88.20
3785628.38	173.50	185.60	210.40	200.40	157.20	137.90	127.90	140.80	113.30
3785565.24	208.70	217.60	233.50	222.30	190.00	155.80	142.70	172.30	149.10
3785502.10	252.90	256.30	266.00	245.20	195.80	180.10	165.40	212.70	187.90

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 317668.11	317780.14	317892.17
3786764.90	54.00	56.70	59.20
3786701.76	58.00	59.20	62.50
3786638.62	68.00	70.50	78.10
3786575.48	78.90	88.10	94.20
3786512.34	95.00	111.00	107.80
3786449.20	109.30	133.90	115.70
3786386.06	107.70	131.60	130.30
3786322.92	100.00	111.80	133.30
3786259.78	94.90	107.80	116.90
3786196.64	89.50	89.50	109.60
3786133.50	85.80	80.40	96.60
3786070.36	77.50	77.70	89.60
3786007.22	69.00	75.20	89.90
3785944.08	65.40	72.00	87.80
3785880.94	61.20	69.80	90.10
3785817.80	65.30	68.80	94.60
3785754.66	85.60	69.50	101.20
3785691.52	111.30	89.30	101.00
3785628.38	130.90	118.30	116.10
3785565.24	142.60	131.40	138.00
3785502.10	178.70	158.30	159.00

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	315651.57	315763.60	315875.63	315987.66	316099.69	316211.72	316323.75	316435.78	316547.81
3786764.90	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786701.76	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786638.62	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786575.48	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786512.34	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786449.20	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786386.06	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786322.92	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786259.78	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786196.64	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786133.50	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786070.36	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786007.22	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785944.08	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785880.94	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785817.80	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785754.66	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785691.52	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785628.38	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785565.24	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785502.10	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	316659.84	316771.87	316883.90	316995.93	317107.96	317219.99	317332.02	317444.05	317556.08
3786764.90	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786701.76	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786638.62	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786575.48	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786512.34	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786449.20	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786386.06	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786322.92	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786259.78	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786196.64	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786133.50	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786070.36	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30

3786007.22	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785944.08	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785880.94	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785817.80	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785754.66	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785691.52	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785628.38	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785565.24	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785502.10	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30

*** NETWORK ID: UCART1   ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 317668.11	317780.14	317892.17
3786764.90	548.30	548.30	548.30
3786701.76	548.30	548.30	548.30
3786638.62	548.30	548.30	548.30
3786575.48	548.30	548.30	548.30
3786512.34	548.30	548.30	548.30
3786449.20	548.30	548.30	548.30
3786386.06	548.30	548.30	548.30
3786322.92	548.30	548.30	548.30
3786259.78	548.30	548.30	548.30
3786196.64	548.30	548.30	548.30
3786133.50	548.30	548.30	548.30
3786070.36	548.30	548.30	548.30
3786007.22	548.30	548.30	548.30
3785944.08	548.30	548.30	548.30
3785880.94	548.30	548.30	548.30
3785817.80	548.30	548.30	548.30
3785754.66	548.30	548.30	548.30
3785691.52	548.30	548.30	548.30
3785628.38	548.30	548.30	548.30
3785565.24	548.30	548.30	548.30
3785502.10	548.30	548.30	548.30

*** DISCRETE CARTESIAN RECEPTORS ***

(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(	315977.2,	3786506.5,	36.0,	548.3,	0.0);	(	316073.9,	3786455.6,	35.4,	548.3,	0.0);
(	316103.8,	3786353.9,	46.4,	548.3,	0.0);	(	316345.7,	3786329.8,	35.8,	548.3,	0.0);
(	316291.1,	3786080.1,	49.4,	548.3,	0.0);	(	316738.8,	3786112.9,	38.0,	548.3,	0.0);
(	316531.2,	3786156.1,	35.4,	548.3,	0.0);	(	316601.9,	3786075.5,	37.0,	548.3,	0.0);
(	316517.2,	3785929.1,	49.4,	548.3,	0.0);	(	316787.0,	3786440.5,	36.8,	548.3,	0.0);
(	316915.7,	3786253.6,	42.4,	548.3,	0.0);	(	317331.3,	3786101.4,	51.6,	548.3,	0.0);
(	317372.0,	3786043.9,	54.4,	548.3,	0.0);	(	317043.4,	3786060.1,	45.3,	548.3,	0.0);

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** 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			

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

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

Surface file: E:\New MET data\Elrio 2015-2017.SFC Met Version: 18081
Profile file: E:\New MET data\Elrio 2015-2017.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 93110 Upper air station no.: 93214
Name: UNKNOWN Name: UNKNOWN
Year: 2015 Year: 2015

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
15	01	01	1	01	-37.2	0.321	-9.000	-9.000	-999.	437.	80.7	0.14	0.88	1.00	3.90	16.	10.0	275.6	10.0
15	01	01	1	02	-44.7	0.386	-9.000	-9.000	-999.	575.	116.3	0.14	0.88	1.00	4.50	13.	10.0	275.5	10.0
15	01	01	1	03	-53.1	0.458	-9.000	-9.000	-999.	744.	163.7	0.14	0.88	1.00	5.20	15.	10.0	275.1	10.0
15	01	01	1	04	-56.6	0.489	-9.000	-9.000	-999.	819.	186.2	0.14	0.88	1.00	5.50	17.	10.0	275.2	10.0
15	01	01	1	05	-52.0	0.448	-9.000	-9.000	-999.	722.	156.2	0.14	0.88	1.00	5.10	21.	10.0	274.8	10.0
15	01	01	1	06	-54.4	0.468	-9.000	-9.000	-999.	769.	170.6	0.14	0.88	1.00	5.30	12.	10.0	274.6	10.0
15	01	01	1	07	-46.1	0.396	-9.000	-9.000	-999.	603.	122.3	0.14	0.88	1.00	4.60	11.	10.0	274.9	10.0
15	01	01	1	08	-39.5	0.392	-9.000	-9.000	-999.	588.	137.9	0.14	0.88	0.58	4.50	6.	10.0	275.2	10.0
15	01	01	1	09	16.2	0.525	0.278	0.008	48.	913.	-809.4	0.14	0.88	0.34	5.50	14.	10.0	276.4	10.0
15	01	01	1	10	61.9	0.414	0.508	0.008	77.	650.	-103.9	0.14	0.88	0.25	4.10	9.	10.0	279.4	10.0
15	01	01	1	11	94.7	0.405	1.189	0.008	644.	619.	-63.6	0.14	0.88	0.22	3.90	15.	10.0	282.9	10.0
15	01	01	1	12	112.0	0.193	1.401	0.009	890.	247.	-5.8	0.14	0.88	0.21	1.40	2.	10.0	286.1	10.0
15	01	01	1	13	112.3	0.201	1.415	0.008	915.	217.	-6.6	0.18	0.88	0.21	1.40	239.	10.0	287.2	10.0
15	01	01	1	14	96.0	0.207	1.354	0.007	936.	226.	-8.3	0.22	0.88	0.22	1.40	199.	10.0	287.6	10.0
15	01	01	1	15	63.8	0.280	1.187	0.007	949.	355.	-31.1	0.18	0.88	0.25	2.40	225.	10.0	287.4	10.0
15	01	01	1	16	18.5	0.280	0.786	0.007	953.	357.	-108.2	0.22	0.88	0.34	2.50	203.	10.0	286.9	10.0
15	01	01	1	17	-9.5	0.108	-9.000	-9.000	-999.	116.	11.8	0.20	0.88	0.58	2.10	245.	10.0	285.6	10.0
15	01	01	1	18	-1.1	0.035	-9.000	-9.000	-999.	27.	3.6	0.19	0.88	1.00	0.70	277.	10.0	284.0	10.0
15	01	01	1	19	-6.7	0.086	-9.000	-9.000	-999.	61.	8.7	0.20	0.88	1.00	1.70	33.	10.0	281.0	10.0
15	01	01	1	20	-6.8	0.085	-9.000	-9.000	-999.	60.	8.2	0.14	0.88	1.00	1.80	19.	10.0	278.8	10.0
15	01	01	1	21	-21.0	0.182	-9.000	-9.000	-999.	187.	26.2	0.14	0.88	1.00	2.80	19.	10.0	278.1	10.0
15	01	01	1	22	-29.1	0.252	-9.000	-9.000	-999.	304.	50.1	0.14	0.88	1.00	3.30	12.	10.0	277.9	10.0
15	01	01	1	23	-22.8	0.198	-9.000	-9.000	-999.	213.	30.9	0.14	0.88	1.00	2.90	11.	10.0	277.5	10.0
15	01	01	1	24	-31.8	0.276	-9.000	-9.000	-999.	349.	60.0	0.14	0.88	1.00	3.50	13.	10.0	277.5	10.0

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
15	01	01	01	10.0	1	16.	3.90	275.7	11.2	-99.00	0.75

F indicates top of profile (=1) or below (=0)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS)								
	315651.57	315763.60	315875.63	315987.66	316099.69	316211.72	316323.75	316435.78	316547.81

3786764.90	0.03056	0.03469	0.03985	0.04407	0.04738	0.04999	0.05140	0.05148	0.05076
3786701.76	0.03560	0.04230	0.05429	0.05816	0.06358	0.06701	0.06791	0.06669	0.06386
3786638.62	0.03827	0.00756	0.01833	0.07826	0.07938	0.08482	0.08278	0.08504	0.08206
3786575.48	0.03921	0.00346	0.00364	0.09443	0.09153	0.09784	0.09978	0.09993	0.09743
3786512.34	0.00490	0.00176	0.00262	0.09759	0.09798	0.10396	0.10770	0.11035	0.10214
3786449.20	0.00557	0.00109	0.00215	0.06113	0.10148	0.11415	0.12678	0.11870	0.12110
3786386.06	0.01732	0.00122	0.00201	0.00692	0.07086	0.02247	0.09488	0.13063	0.13073
3786322.92	0.02387	0.00142	0.00154	0.00298	0.00694	0.00647	0.09957	0.13625	0.13880
3786259.78	0.04648	0.00147	0.00196	0.00395	0.00317	0.00836	0.13177	0.14429	0.14449
3786196.64	0.04774	0.00266	0.00844	0.01528	0.00423	0.01222	0.11286	0.14397	0.13941
3786133.50	0.05358	0.02603	0.10952	0.10684	0.01010	0.00781	0.05408	0.15051	0.11989
3786070.36	0.05901	0.09082	0.10458	0.10043	0.12686	0.01622	0.02237	0.09275	0.10081
3786007.22	0.06616	0.10406	0.11670	0.10526	0.11809	0.05682	0.00861	0.01961	0.05986
3785944.08	0.07207	0.09550	0.12270	0.13089	0.13123	0.03822	0.00615	0.00562	0.02723
3785880.94	0.07646	0.10431	0.13053	0.12782	0.16456	0.01469	0.00524	0.00455	0.00750
3785817.80	0.07963	0.10679	0.13664	0.14232	0.05714	0.01349	0.00456	0.00351	0.00260
3785754.66	0.08601	0.11321	0.13792	0.17374	0.04044	0.01484	0.00409	0.00233	0.00179
3785691.52	0.08565	0.11294	0.13554	0.11983	0.02534	0.01247	0.00321	0.00154	0.00128
3785628.38	0.08127	0.10937	0.13900	0.04473	0.01688	0.00805	0.00240	0.00104	0.00083
3785565.24	0.07716	0.10650	0.03988	0.00890	0.00673	0.00348	0.00176	0.00085	0.00060
3785502.10	0.07384	0.11203	0.00950	0.00294	0.00276	0.00183	0.00115	0.00082	0.00047

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 316659.84	316771.87	316883.90	316995.93	317107.96	317219.99	317332.02	317444.05	317556.08
3786764.90	0.03237	0.00768	0.00732	0.00803	0.00421	0.00536	0.00751	0.00724	0.00623
3786701.76	0.06188	0.03562	0.02039	0.01513	0.00940	0.00566	0.00414	0.00386	0.00324
3786638.62	0.07804	0.07041	0.06090	0.03052	0.01501	0.00874	0.00362	0.00255	0.00176
3786575.48	0.09245	0.08240	0.08070	0.03234	0.01974	0.00955	0.00550	0.00224	0.00163
3786512.34	0.11546	0.10243	0.07447	0.03153	0.01847	0.00959	0.00515	0.00242	0.00155
3786449.20	0.12402	0.11306	0.05243	0.03029	0.01595	0.00836	0.00285	0.00216	0.00155
3786386.06	0.16063	0.11021	0.04700	0.01810	0.01495	0.00766	0.00235	0.00210	0.00166
3786322.92	0.16281	0.13244	0.03591	0.01523	0.01192	0.00804	0.00271	0.00230	0.00184
3786259.78	0.13560	0.15975	0.04155	0.01386	0.01202	0.00904	0.00477	0.00298	0.00152
3786196.64	0.13155	0.12344	0.06102	0.02398	0.01950	0.00960	0.00605	0.00319	0.00125
3786133.50	0.10860	0.06636	0.03269	0.02569	0.01645	0.01240	0.00600	0.00236	0.00095
3786070.36	0.08671	0.05037	0.02506	0.01642	0.01065	0.00895	0.00677	0.00175	0.00073

3786007.22	0.04205	0.03088	0.01718	0.01163	0.00789	0.00499	0.00311	0.00171	0.00083
3785944.08	0.01331	0.00704	0.00716	0.00679	0.00525	0.00331	0.00189	0.00106	0.00098
3785880.94	0.00558	0.00365	0.00157	0.00155	0.00228	0.00161	0.00087	0.00079	0.00073
3785817.80	0.00289	0.00217	0.00096	0.00088	0.00116	0.00097	0.00050	0.00043	0.00051
3785754.66	0.00136	0.00104	0.00063	0.00063	0.00083	0.00065	0.00037	0.00030	0.00028
3785691.52	0.00092	0.00066	0.00047	0.00047	0.00059	0.00045	0.00029	0.00021	0.00023
3785628.38	0.00066	0.00050	0.00040	0.00038	0.00041	0.00035	0.00024	0.00018	0.00017
3785565.24	0.00049	0.00040	0.00034	0.00032	0.00031	0.00028	0.00020	0.00015	0.00014
3785502.10	0.00038	0.00033	0.00029	0.00027	0.00028	0.00023	0.00017	0.00013	0.00013

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 317668.11	317780.14	317892.17
3786764.90	0.00506	0.00396	0.00320
3786701.76	0.00386	0.00335	0.00264
3786638.62	0.00244	0.00206	0.00153
3786575.48	0.00176	0.00135	0.00112
3786512.34	0.00135	0.00106	0.00095
3786449.20	0.00118	0.00090	0.00086
3786386.06	0.00115	0.00086	0.00073
3786322.92	0.00115	0.00087	0.00064
3786259.78	0.00109	0.00077	0.00059
3786196.64	0.00098	0.00075	0.00049
3786133.50	0.00077	0.00067	0.00044
3786070.36	0.00066	0.00056	0.00039
3786007.22	0.00066	0.00048	0.00033
3785944.08	0.00063	0.00045	0.00029
3785880.94	0.00066	0.00042	0.00024
3785817.80	0.00047	0.00038	0.00020
3785754.66	0.00024	0.00033	0.00017
3785691.52	0.00017	0.00019	0.00016
3785628.38	0.00015	0.00015	0.00014
3785565.24	0.00014	0.00013	0.00012
3785502.10	0.00012	0.00012	0.00011

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
315977.16	3786506.51	0.09966	316073.87	3786455.61	0.10107
316103.82	3786353.86	0.01918	316345.71	3786329.82	0.13519
316291.15	3786080.08	0.02616	316738.76	3786112.89	0.08840
316531.24	3786156.06	0.13051	316601.88	3786075.50	0.09527
316517.23	3785929.15	0.01764	316786.97	3786440.53	0.10905
316915.70	3786253.62	0.02617	317331.26	3786101.43	0.00677
317372.02	3786043.88	0.00362	317043.41	3786060.07	0.01281

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE SUMMARY OF MAXIMUM PERIOD (26304 HRS) RESULTS ***

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

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	1ST HIGHEST VALUE IS	0.17374 AT (315987.66, 3785754.66, 36.00, 548.30, 0.00)	GC	UCART1
	2ND HIGHEST VALUE IS	0.16456 AT (316099.69, 3785880.94, 37.40, 548.30, 0.00)	GC	UCART1
	3RD HIGHEST VALUE IS	0.16281 AT (316659.84, 3786322.92, 36.20, 548.30, 0.00)	GC	UCART1
	4TH HIGHEST VALUE IS	0.16063 AT (316659.84, 3786386.06, 36.30, 548.30, 0.00)	GC	UCART1
	5TH HIGHEST VALUE IS	0.15975 AT (316771.87, 3786259.78, 36.90, 548.30, 0.00)	GC	UCART1
	6TH HIGHEST VALUE IS	0.15051 AT (316435.78, 3786133.50, 37.00, 548.30, 0.00)	GC	UCART1
	7TH HIGHEST VALUE IS	0.14449 AT (316547.81, 3786259.78, 34.40, 548.30, 0.00)	GC	UCART1
	8TH HIGHEST VALUE IS	0.14429 AT (316435.78, 3786259.78, 33.80, 548.30, 0.00)	GC	UCART1
	9TH HIGHEST VALUE IS	0.14397 AT (316435.78, 3786196.64, 33.70, 548.30, 0.00)	GC	UCART1
	10TH HIGHEST VALUE IS	0.14232 AT (315987.66, 3785817.80, 33.70, 548.30, 0.00)	GC	UCART1

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

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

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

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

A Total of   0 Fatal Error Message(s)
A Total of   2 Warning Message(s)
A Total of   213 Informational Message(s)

A Total of   26304 Hours Were Processed

A Total of   0 Calm Hours Identified

A Total of   213 Missing Hours Identified (0.81 Percent)

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

   ********   WARNING MESSAGES   ********
ME W186   134   MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used   0.50
MX W403   134   PFLCNV: Turbulence data is being used w/o ADJ_U* option   SigA Data

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

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.9.0
** Lakes Environmental Software Inc.
** Date: 6/25/2020
** File: C:\Lakes\AERMOD View\Camarillo Construction HRA Years 2024-2026\Camarillo Construction HRA Years 2024-2026.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE Camarillo Construction DPM
   TITLETWO Child Exposure Years 2024-2026
   MODELOPT DFAULT CONC
   AVERTIME PERIOD
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "Camarillo Construction HRA Years 2024-2026.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION PAREA1       AREAPOLY   315711.985  3786684.686       33.160
** DESCRSRC Area of disturbance
** Source Parameters **
   SRCPARAM PAREA1       3.8395E-09     3.660       139
   AREAVERT PAREA1       315711.985 3786684.686 315986.889 3786676.601
   AREAVERT PAREA1       316266.645 3786676.601 316366.904 3786668.515
   AREAVERT PAREA1       316607.850 3786653.961 316651.511 3786644.259
   AREAVERT PAREA1       316724.280 3786631.322 316780.878 3786623.237
   AREAVERT PAREA1       316826.157 3786620.003 316881.138 3786597.363
   AREAVERT PAREA1       316918.331 3786568.256 316926.416 3786547.234
   AREAVERT PAREA1       316916.713 3786534.297 316894.074 3786526.212
   AREAVERT PAREA1       316858.498 3786508.424 316814.837 3786484.167
   AREAVERT PAREA1       316787.124 3786462.483 316774.926 3786439.522
   AREAVERT PAREA1       316752.683 3786365.617 316850.266 3786334.764
   AREAVERT PAREA1       316831.610 3786295.300 316856.006 3786284.537
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AREAVERT PAREA1       316937.086 3786227.136 316967.222 3786220.678
AREAVERT PAREA1       317026.776 3786217.808 317071.262 3786220.678
AREAVERT PAREA1       317083.460 3786227.136 317107.138 3786213.503
AREAVERT PAREA1       317129.381 3786213.503 317163.105 3786191.977
AREAVERT PAREA1       317246.337 3786130.270 317308.044 3786095.829
AREAVERT PAREA1       317358.270 3786072.151 317354.683 3786049.908
AREAVERT PAREA1       317348.225 3786031.253 317331.722 3786010.444
AREAVERT PAREA1       317315.937 3786001.834 317297.048 3786013.396
AREAVERT PAREA1       317279.940 3786010.285 317250.909 3786014.951
AREAVERT PAREA1       317058.060 3786067.311 317040.952 3786069.903
AREAVERT PAREA1       317010.885 3786077.160 316969.930 3786077.160
AREAVERT PAREA1       316930.531 3786076.124 316915.497 3786101.526
AREAVERT PAREA1       316890.613 3786117.078 316849.140 3786128.483
AREAVERT PAREA1       316783.302 3786149.220 316779.154 3786139.370
AREAVERT PAREA1       316751.678 3786148.701 316720.574 3786159.070
AREAVERT PAREA1       316693.098 3786167.364 316657.846 3786174.622
AREAVERT PAREA1       316629.852 3786176.696 316602.376 3786177.732
AREAVERT PAREA1       316556.237 3786172.030 316505.951 3786159.588
AREAVERT PAREA1       316461.886 3786145.072 316439.594 3786138.333
AREAVERT PAREA1       316421.968 3786133.667 316401.232 3786133.149
AREAVERT PAREA1       316380.495 3786125.373 316358.722 3786113.968
AREAVERT PAREA1       316348.354 3786097.379 316329.691 3786097.897
AREAVERT PAREA1       316295.476 3786092.713 316284.071 3786088.047
AREAVERT PAREA1       316275.776 3786082.863 316295.476 3786048.648
AREAVERT PAREA1       316299.623 3786025.838 316280.960 3786018.580
AREAVERT PAREA1       316239.487 3785996.288 316215.640 3785967.257
AREAVERT PAREA1       316190.238 3785943.929 316167.946 3785910.232
AREAVERT PAREA1       316162.244 3785898.308 316160.170 3785889.495
AREAVERT PAREA1       316167.946 3785873.943 316185.054 3785851.651
AREAVERT PAREA1       316204.235 3785815.362 316219.269 3785786.331
AREAVERT PAREA1       316231.711 3785754.708 316234.822 3785727.232
AREAVERT PAREA1       316233.785 3785687.833 316234.822 3785642.731
AREAVERT PAREA1       316228.082 3785606.442 316206.827 3785583.114
AREAVERT PAREA1       316169.502 3785569.117 316128.029 3785566.525
AREAVERT PAREA1       315705.004 3785533.346 315705.523 3785951.705
AREAVERT PAREA1       315693.599 3786111.894 315886.967 3786171.511
AREAVERT PAREA1       315920.145 3786164.254 316090.185 3786084.418
AREAVERT PAREA1       316202.680 3786081.308 316234.303 3786116.560
AREAVERT PAREA1       316250.892 3786101.007 316273.184 3786110.857
AREAVERT PAREA1       316259.187 3786139.370 316255.558 3786149.220
AREAVERT PAREA1       316262.816 3786171.511 316270.074 3786183.953
AREAVERT PAREA1       316290.292 3786198.987 316329.173 3786224.908
AREAVERT PAREA1       316343.688 3786247.200 316354.575 3786260.160
AREAVERT PAREA1       316359.759 3786299.041 316359.759 3786327.035
AREAVERT PAREA1       316354.056 3786359.695 316337.986 3786393.392
AREAVERT PAREA1       316315.175 3786421.386 316288.736 3786438.494
AREAVERT PAREA1       316270.592 3786449.380 316248.300 3786456.638
AREAVERT PAREA1       316218.751 3786462.341 316161.725 3786462.859
AREAVERT PAREA1       316104.700 3786463.377 316063.227 3786463.377
AREAVERT PAREA1       316030.049 3786464.414 316011.904 3786467.525
AREAVERT PAREA1       316003.091 3786469.080 315992.205 3786479.448
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   AREAVERT PAREA1       315985.465 3786504.850 315981.836 3786521.440
   AREAVERT PAREA1       315974.579 3786530.771 315956.953 3786531.289
   AREAVERT PAREA1       315950.213 3786529.734 315939.845 3786529.216
   AREAVERT PAREA1       315939.845 3786533.363 315920.664 3786532.326
   AREAVERT PAREA1       315918.590 3786544.768 315921.182 3786550.989
   AREAVERT PAREA1       315925.848 3786559.284 315923.774 3786576.391
   AREAVERT PAREA1       315917.035 3786586.760 315899.927 3786596.091
   AREAVERT PAREA1       315702.412 3786639.638
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "Camarillo Construction HRA Years 2024-2026.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE "E:\New MET data\Elrio 2015-2017.SFC"
   PROFFILE "E:\New MET data\Elrio 2015-2017.PFL"
   SURFDATA 93110 2015
   UAIRDATA 93214 2015
   SITEDATA 56436 2015
   PROFBASE 40.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE PERIOD ALL "CAMARILLO CONSTRUCTION HRA YEARS 2024-2026.AD\PE00GALL.PLT" 31
   SUMMFILE "Camarillo Construction HRA Years 2024-2026.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

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

 A Total of            0 Fatal Error Message(s)
```

```
A Total of            2 Warning Message(s)
A Total of            0 Informational Message(s)


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


   ********   WARNING MESSAGES   ********
ME W186     134       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
MX W403     134       PFLCNV: Turbulence data is being used w/o ADJ_U* option      SigA Data

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


*** AERMOD - VERSION  19191 ***   *** Camarillo Construction DPM                                        ***        06/25/20
*** AERMET - VERSION  18081 ***   *** Child Exposure Years 2024-2026                                    ***        19:10:24
                                                                                                                 PAGE   1
*** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  SigA Data

                                          ***     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:
        CCVR_Sub - Meteorological data includes CCVR substitutions
        TEMP_Sub - Meteorological data includes TEMP substitutions

**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of:  DPM

**Model Calculates PERIOD Averages Only
```

```
**This Run Includes:      1 Source(s);       1 Source Group(s); and     455 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 RLINE/RLINEXT source(s)
                and:      0 OPENPIT source(s)
                and:      0 BUOYANT LINE source(s) with      0 line(s)


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

**The AERMET Input Meteorological Data Version Date:  18081

**Output Options Selected:
         Model Outputs Tables of PERIOD Averages by Receptor
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing Hours

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =    40.00 ;  Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                              ;  Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =      3.6 MB of RAM.

**Input Runstream File:          aermod.inp
**Output Print File:             aermod.out

**Detailed Error/Message File:   Camarillo Construction HRA Years 2024-2026.err
**File for Summary of Results:   Camarillo Construction HRA Years 2024-2026.sum

*** AERMOD - VERSION  19191 ***   *** Camarillo Construction DPM                                          ***        06/25/20
*** AERMET - VERSION  18081 ***   *** Child Exposure Years 2024-2026                                      ***        19:10:24
                                                                                                                  PAGE   2
*** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  SigA Data


                                          *** 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
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

```
PAREA1           0   0.38395E-08  315712.0 3786684.7    33.2     3.66     139         0.00     NO

*** AERMOD - VERSION  19191 ***   *** Camarillo Construction DPM                                    ***        06/25/20
*** AERMET - VERSION  18081 ***   *** Child Exposure Years 2024-2026                                ***        19:10:24
                                                                                                             PAGE   3
*** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  SigA Data


                                      *** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID                                          SOURCE IDs
-----------                                          ----------


 ALL        PAREA1      ,

*** AERMOD - VERSION  19191 ***   *** Camarillo Construction DPM                                    ***        06/25/20
*** AERMET - VERSION  18081 ***   *** Child Exposure Years 2024-2026                                ***        19:10:24
                                                                                                             PAGE   4
*** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  SigA Data

                                   *** GRIDDED RECEPTOR NETWORK SUMMARY ***

                                *** NETWORK ID: UCART1   ;  NETWORK TYPE: GRIDCART ***

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

      315651.6,  315763.6,  315875.6,  315987.7,  316099.7,  316211.7,  316323.8,  316435.8,  316547.8,  316659.8,
      316771.9,  316883.9,  316995.9,  317108.0,  317220.0,  317332.0,  317444.0,  317556.1,  317668.1,  317780.1,
      317892.2,

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

     3785502.1, 3785565.2, 3785628.4, 3785691.5, 3785754.7, 3785817.8, 3785880.9, 3785944.1, 3786007.2, 3786070.4,
     3786133.5, 3786196.6, 3786259.8, 3786322.9, 3786386.1, 3786449.2, 3786512.3, 3786575.5, 3786638.6, 3786701.8,
     3786764.9,

*** AERMOD - VERSION  19191 ***   *** Camarillo Construction DPM                                    ***        06/25/20
*** AERMET - VERSION  18081 ***   *** Child Exposure Years 2024-2026                                ***        19:10:24
                                                                                                             PAGE   5
*** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  SigA Data

                                *** NETWORK ID: UCART1   ;  NETWORK TYPE: GRIDCART ***

                                     * ELEVATION HEIGHTS IN METERS *

   Y-COORD  |                                          X-COORD (METERS)
   (METERS) |     315651.57    315763.60    315875.63    315987.66    316099.69    316211.72    316323.75    316435.78    316547.81
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

3786764.90	34.40	33.90	33.80	33.70	33.40	33.60	33.70	34.00	34.90
3786701.76	33.60	32.70	34.80	33.50	34.00	33.90	33.60	33.80	33.80
3786638.62	33.60	49.70	44.20	35.00	33.50	33.80	32.90	33.70	33.40
3786575.48	33.40	57.70	60.10	35.40	33.50	33.70	33.80	33.90	33.80
3786512.34	51.30	68.00	65.20	35.60	33.50	33.30	33.60	33.60	32.60
3786449.20	50.50	81.70	69.00	39.10	35.30	35.80	35.50	33.30	33.80
3786386.06	43.40	75.40	70.70	55.30	38.70	45.50	38.40	34.30	33.80
3786322.92	41.60	71.10	81.80	71.60	57.50	60.60	38.20	33.60	33.90
3786259.78	34.10	71.40	75.60	67.20	84.10	57.90	36.90	33.80	34.40
3786196.64	32.10	62.40	52.70	49.30	79.60	53.70	38.20	33.70	34.80
3786133.50	32.10	43.30	35.60	35.30	58.30	65.60	42.80	37.00	35.60
3786070.36	32.00	33.60	32.80	32.00	37.60	54.90	51.50	38.50	36.50
3786007.22	32.30	33.50	32.90	31.20	33.20	42.00	68.80	50.20	40.10
3785944.08	32.30	30.50	32.70	33.70	34.60	44.90	77.70	75.50	45.30
3785880.94	32.20	31.10	32.80	32.50	37.40	57.00	84.90	82.60	61.10
3785817.80	32.10	30.50	32.90	33.70	42.00	59.60	93.50	94.70	100.50
3785754.66	32.80	31.30	32.80	36.00	44.80	57.20	96.20	121.80	120.80
3785691.52	32.60	31.00	32.60	38.40	50.00	60.50	102.60	145.60	134.90
3785628.38	31.90	30.40	33.50	44.00	55.80	70.80	95.40	163.00	167.70
3785565.24	31.60	31.10	44.60	67.60	72.60	81.70	95.20	163.90	201.20
3785502.10	31.80	35.70	61.90	112.40	108.80	105.10	124.50	153.10	234.60

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 316659.84	316771.87	316883.90	316995.93	317107.96	317219.99	317332.02	317444.05	317556.08
3786764.90	40.10	52.60	53.80	52.60	64.80	58.00	51.60	51.10	52.10
3786701.76	35.30	40.30	44.20	46.60	51.20	57.60	61.90	61.30	63.30
3786638.62	34.10	34.70	37.10	41.00	46.00	50.60	64.80	72.50	84.90
3786575.48	34.20	34.30	36.10	40.40	43.00	49.10	55.40	77.00	89.40
3786512.34	35.20	35.30	37.50	40.00	43.30	48.70	56.10	73.20	92.40
3786449.20	35.10	35.80	38.30	40.30	44.40	50.00	70.60	77.70	91.80
3786386.06	36.30	36.60	39.20	44.30	44.70	50.80	79.40	79.40	85.70
3786322.92	36.20	37.20	40.90	45.60	46.60	50.20	74.50	75.20	78.00
3786259.78	34.90	36.90	40.00	46.60	47.00	49.50	57.70	64.80	86.20
3786196.64	35.50	37.50	38.40	42.10	43.10	49.60	53.00	61.50	94.80
3786133.50	36.10	38.70	40.70	41.40	44.20	45.60	53.10	68.70	98.60
3786070.36	37.50	39.60	42.00	43.70	47.00	47.80	50.20	66.50	85.40
3786007.22	41.50	42.00	44.20	46.20	49.10	52.40	54.10	55.20	65.90
3785944.08	50.20	55.20	51.80	51.00	52.90	56.80	56.80	58.80	58.50
3785880.94	62.60	65.40	92.00	84.40	65.40	69.40	69.20	61.00	60.60

3785817.80	77.10	76.30	127.80	123.10	84.90	82.90	84.20	72.80	65.10
3785754.66	121.70	119.90	168.10	149.00	98.90	99.90	97.90	84.30	79.80
3785691.52	147.00	158.80	199.20	175.80	121.60	122.10	112.60	111.70	88.20
3785628.38	173.50	185.60	210.40	200.40	157.20	137.90	127.90	140.80	113.30
3785565.24	208.70	217.60	233.50	222.30	190.00	155.80	142.70	172.30	149.10
3785502.10	252.90	256.30	266.00	245.20	195.80	180.10	165.40	212.70	187.90

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 317668.11	317780.14	317892.17
3786764.90	54.00	56.70	59.20
3786701.76	58.00	59.20	62.50
3786638.62	68.00	70.50	78.10
3786575.48	78.90	88.10	94.20
3786512.34	95.00	111.00	107.80
3786449.20	109.30	133.90	115.70
3786386.06	107.70	131.60	130.30
3786322.92	100.00	111.80	133.30
3786259.78	94.90	107.80	116.90
3786196.64	89.50	89.50	109.60
3786133.50	85.80	80.40	96.60
3786070.36	77.50	77.70	89.60
3786007.22	69.00	75.20	89.90
3785944.08	65.40	72.00	87.80
3785880.94	61.20	69.80	90.10
3785817.80	65.30	68.80	94.60
3785754.66	85.60	69.50	101.20
3785691.52	111.30	89.30	101.00
3785628.38	130.90	118.30	116.10
3785565.24	142.60	131.40	138.00
3785502.10	178.70	158.30	159.00

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	315651.57	315763.60	315875.63	315987.66	316099.69	316211.72	316323.75	316435.78	316547.81
3786764.90	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786701.76	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786638.62	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786575.48	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786512.34	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786449.20	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786386.06	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786322.92	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786259.78	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786196.64	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786133.50	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786070.36	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786007.22	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785944.08	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785880.94	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785817.80	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785754.66	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785691.52	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785628.38	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785565.24	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785502.10	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	316659.84	316771.87	316883.90	316995.93	317107.96	317219.99	317332.02	317444.05	317556.08
3786764.90	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786701.76	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786638.62	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786575.48	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786512.34	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786449.20	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786386.06	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786322.92	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786259.78	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786196.64	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786133.50	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3786070.36	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30

3786007.22	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785944.08	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785880.94	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785817.80	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785754.66	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785691.52	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785628.38	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785565.24	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30
3785502.10	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30	548.30

*** NETWORK ID: UCART1   ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 317668.11	317780.14	317892.17
3786764.90	548.30	548.30	548.30
3786701.76	548.30	548.30	548.30
3786638.62	548.30	548.30	548.30
3786575.48	548.30	548.30	548.30
3786512.34	548.30	548.30	548.30
3786449.20	548.30	548.30	548.30
3786386.06	548.30	548.30	548.30
3786322.92	548.30	548.30	548.30
3786259.78	548.30	548.30	548.30
3786196.64	548.30	548.30	548.30
3786133.50	548.30	548.30	548.30
3786070.36	548.30	548.30	548.30
3786007.22	548.30	548.30	548.30
3785944.08	548.30	548.30	548.30
3785880.94	548.30	548.30	548.30
3785817.80	548.30	548.30	548.30
3785754.66	548.30	548.30	548.30
3785691.52	548.30	548.30	548.30
3785628.38	548.30	548.30	548.30
3785565.24	548.30	548.30	548.30
3785502.10	548.30	548.30	548.30

*** DISCRETE CARTESIAN RECEPTORS ***

(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(	315977.2,	3786506.5,	36.0,	548.3,	0.0);	(	316073.9,	3786455.6,	35.4,	548.3,	0.0);
(	316103.8,	3786353.9,	46.4,	548.3,	0.0);	(	316345.7,	3786329.8,	35.8,	548.3,	0.0);
(	316291.1,	3786080.1,	49.4,	548.3,	0.0);	(	316738.8,	3786112.9,	38.0,	548.3,	0.0);
(	316531.2,	3786156.1,	35.4,	548.3,	0.0);	(	316601.9,	3786075.5,	37.0,	548.3,	0.0);
(	316517.2,	3785929.1,	49.4,	548.3,	0.0);	(	316787.0,	3786440.5,	36.8,	548.3,	0.0);
(	316915.7,	3786253.6,	42.4,	548.3,	0.0);	(	317331.3,	3786101.4,	51.6,	548.3,	0.0);
(	317372.0,	3786043.9,	54.4,	548.3,	0.0);	(	317043.4,	3786060.1,	45.3,	548.3,	0.0);

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** 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			

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

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

Surface file: E:\New MET data\Elrio 2015-2017.SFC Met Version: 18081
Profile file: E:\New MET data\Elrio 2015-2017.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 93110 Upper air station no.: 93214
Name: UNKNOWN Name: UNKNOWN
Year: 2015 Year: 2015

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
15	01	01	1	01	-37.2	0.321	-9.000	-9.000	-999.	437.	80.7	0.14	0.88	1.00	3.90	16.	10.0	275.6	10.0
15	01	01	1	02	-44.7	0.386	-9.000	-9.000	-999.	575.	116.3	0.14	0.88	1.00	4.50	13.	10.0	275.5	10.0
15	01	01	1	03	-53.1	0.458	-9.000	-9.000	-999.	744.	163.7	0.14	0.88	1.00	5.20	15.	10.0	275.1	10.0
15	01	01	1	04	-56.6	0.489	-9.000	-9.000	-999.	819.	186.2	0.14	0.88	1.00	5.50	17.	10.0	275.2	10.0
15	01	01	1	05	-52.0	0.448	-9.000	-9.000	-999.	722.	156.2	0.14	0.88	1.00	5.10	21.	10.0	274.8	10.0
15	01	01	1	06	-54.4	0.468	-9.000	-9.000	-999.	769.	170.6	0.14	0.88	1.00	5.30	12.	10.0	274.6	10.0
15	01	01	1	07	-46.1	0.396	-9.000	-9.000	-999.	603.	122.3	0.14	0.88	1.00	4.60	11.	10.0	274.9	10.0
15	01	01	1	08	-39.5	0.392	-9.000	-9.000	-999.	588.	137.9	0.14	0.88	0.58	4.50	6.	10.0	275.2	10.0
15	01	01	1	09	16.2	0.525	0.278	0.008	48.	913.	-809.4	0.14	0.88	0.34	5.50	14.	10.0	276.4	10.0
15	01	01	1	10	61.9	0.414	0.508	0.008	77.	650.	-103.9	0.14	0.88	0.25	4.10	9.	10.0	279.4	10.0
15	01	01	1	11	94.7	0.405	1.189	0.008	644.	619.	-63.6	0.14	0.88	0.22	3.90	15.	10.0	282.9	10.0
15	01	01	1	12	112.0	0.193	1.401	0.009	890.	247.	-5.8	0.14	0.88	0.21	1.40	2.	10.0	286.1	10.0
15	01	01	1	13	112.3	0.201	1.415	0.008	915.	217.	-6.6	0.18	0.88	0.21	1.40	239.	10.0	287.2	10.0
15	01	01	1	14	96.0	0.207	1.354	0.007	936.	226.	-8.3	0.22	0.88	0.22	1.40	199.	10.0	287.6	10.0
15	01	01	1	15	63.8	0.280	1.187	0.007	949.	355.	-31.1	0.18	0.88	0.25	2.40	225.	10.0	287.4	10.0
15	01	01	1	16	18.5	0.280	0.786	0.007	953.	357.	-108.2	0.22	0.88	0.34	2.50	203.	10.0	286.9	10.0
15	01	01	1	17	-9.5	0.108	-9.000	-9.000	-999.	116.	11.8	0.20	0.88	0.58	2.10	245.	10.0	285.6	10.0
15	01	01	1	18	-1.1	0.035	-9.000	-9.000	-999.	27.	3.6	0.19	0.88	1.00	0.70	277.	10.0	284.0	10.0
15	01	01	1	19	-6.7	0.086	-9.000	-9.000	-999.	61.	8.7	0.20	0.88	1.00	1.70	33.	10.0	281.0	10.0
15	01	01	1	20	-6.8	0.085	-9.000	-9.000	-999.	60.	8.2	0.14	0.88	1.00	1.80	19.	10.0	278.8	10.0
15	01	01	1	21	-21.0	0.182	-9.000	-9.000	-999.	187.	26.2	0.14	0.88	1.00	2.80	19.	10.0	278.1	10.0
15	01	01	1	22	-29.1	0.252	-9.000	-9.000	-999.	304.	50.1	0.14	0.88	1.00	3.30	12.	10.0	277.9	10.0
15	01	01	1	23	-22.8	0.198	-9.000	-9.000	-999.	213.	30.9	0.14	0.88	1.00	2.90	11.	10.0	277.5	10.0
15	01	01	1	24	-31.8	0.276	-9.000	-9.000	-999.	349.	60.0	0.14	0.88	1.00	3.50	13.	10.0	277.5	10.0

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
15	01	01	01	10.0	1	16.	3.90	275.7	11.2	-99.00	0.75

F indicates top of profile (=1) or below (=0)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS)								
	315651.57	315763.60	315875.63	315987.66	316099.69	316211.72	316323.75	316435.78	316547.81

3786764.90	0.02570	0.02917	0.03352	0.03706	0.03984	0.04204	0.04323	0.04329	0.04269
3786701.76	0.02994	0.03558	0.04566	0.04891	0.05347	0.05636	0.05711	0.05609	0.05371
3786638.62	0.03219	0.00636	0.01541	0.06582	0.06675	0.07133	0.06961	0.07152	0.06901
3786575.48	0.03298	0.00291	0.00306	0.07941	0.07697	0.08228	0.08391	0.08404	0.08194
3786512.34	0.00412	0.00148	0.00220	0.08207	0.08240	0.08743	0.09057	0.09280	0.08590
3786449.20	0.00468	0.00092	0.00181	0.05141	0.08534	0.09600	0.10662	0.09983	0.10185
3786386.06	0.01457	0.00103	0.00169	0.00582	0.05959	0.01890	0.07979	0.10986	0.10994
3786322.92	0.02008	0.00120	0.00129	0.00250	0.00584	0.00544	0.08374	0.11458	0.11673
3786259.78	0.03909	0.00124	0.00165	0.00332	0.00266	0.00703	0.11082	0.12135	0.12151
3786196.64	0.04015	0.00223	0.00710	0.01285	0.00355	0.01028	0.09492	0.12108	0.11724
3786133.50	0.04506	0.02189	0.09211	0.08985	0.00850	0.00657	0.04548	0.12657	0.10082
3786070.36	0.04962	0.07638	0.08795	0.08446	0.10669	0.01364	0.01881	0.07800	0.08478
3786007.22	0.05564	0.08751	0.09814	0.08852	0.09931	0.04779	0.00724	0.01649	0.05034
3785944.08	0.06061	0.08031	0.10319	0.11008	0.11036	0.03214	0.00517	0.00473	0.02290
3785880.94	0.06430	0.08773	0.10977	0.10750	0.13839	0.01235	0.00441	0.00383	0.00631
3785817.80	0.06697	0.08981	0.11491	0.11969	0.04805	0.01134	0.00384	0.00295	0.00219
3785754.66	0.07233	0.09521	0.11599	0.14611	0.03401	0.01248	0.00344	0.00196	0.00151
3785691.52	0.07203	0.09498	0.11399	0.10077	0.02131	0.01049	0.00270	0.00129	0.00108
3785628.38	0.06834	0.09198	0.11690	0.03762	0.01419	0.00677	0.00202	0.00087	0.00070
3785565.24	0.06489	0.08956	0.03354	0.00749	0.00566	0.00293	0.00148	0.00072	0.00051
3785502.10	0.06210	0.09421	0.00799	0.00247	0.00232	0.00154	0.00096	0.00069	0.00040

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 316659.84	316771.87	316883.90	316995.93	317107.96	317219.99	317332.02	317444.05	317556.08
3786764.90	0.02722	0.00646	0.00616	0.00675	0.00354	0.00451	0.00631	0.00609	0.00524
3786701.76	0.05204	0.02995	0.01715	0.01273	0.00790	0.00476	0.00348	0.00325	0.00273
3786638.62	0.06563	0.05922	0.05122	0.02566	0.01262	0.00735	0.00305	0.00215	0.00148
3786575.48	0.07775	0.06930	0.06787	0.02719	0.01660	0.00803	0.00463	0.00189	0.00137
3786512.34	0.09710	0.08614	0.06263	0.02652	0.01553	0.00807	0.00433	0.00203	0.00131
3786449.20	0.10430	0.09508	0.04409	0.02547	0.01341	0.00703	0.00240	0.00181	0.00130
3786386.06	0.13509	0.09269	0.03952	0.01523	0.01257	0.00644	0.00198	0.00177	0.00140
3786322.92	0.13692	0.11138	0.03020	0.01281	0.01003	0.00676	0.00228	0.00194	0.00155
3786259.78	0.11404	0.13435	0.03495	0.01166	0.01011	0.00760	0.00401	0.00251	0.00128
3786196.64	0.11063	0.10381	0.05132	0.02016	0.01640	0.00808	0.00508	0.00268	0.00105
3786133.50	0.09133	0.05581	0.02749	0.02161	0.01383	0.01043	0.00504	0.00198	0.00080
3786070.36	0.07292	0.04236	0.02107	0.01381	0.00896	0.00752	0.00569	0.00147	0.00061

3786007.22	0.03536	0.02597	0.01445	0.00978	0.00663	0.00420	0.00262	0.00144	0.00070
3785944.08	0.01119	0.00592	0.00602	0.00571	0.00441	0.00278	0.00159	0.00089	0.00083
3785880.94	0.00470	0.00307	0.00132	0.00130	0.00192	0.00136	0.00073	0.00067	0.00062
3785817.80	0.00243	0.00182	0.00080	0.00074	0.00098	0.00082	0.00042	0.00036	0.00043
3785754.66	0.00114	0.00087	0.00053	0.00053	0.00070	0.00054	0.00031	0.00025	0.00024
3785691.52	0.00077	0.00056	0.00040	0.00040	0.00049	0.00038	0.00024	0.00018	0.00019
3785628.38	0.00055	0.00042	0.00034	0.00032	0.00034	0.00030	0.00020	0.00015	0.00015
3785565.24	0.00041	0.00033	0.00028	0.00027	0.00026	0.00024	0.00017	0.00013	0.00012
3785502.10	0.00032	0.00027	0.00024	0.00023	0.00023	0.00019	0.00014	0.00011	0.00011

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 317668.11	317780.14	317892.17
3786764.90	0.00425	0.00333	0.00269
3786701.76	0.00325	0.00282	0.00222
3786638.62	0.00205	0.00173	0.00128
3786575.48	0.00148	0.00114	0.00095
3786512.34	0.00114	0.00089	0.00080
3786449.20	0.00099	0.00076	0.00072
3786386.06	0.00097	0.00072	0.00061
3786322.92	0.00097	0.00073	0.00054
3786259.78	0.00092	0.00065	0.00049
3786196.64	0.00082	0.00063	0.00041
3786133.50	0.00065	0.00056	0.00037
3786070.36	0.00055	0.00047	0.00033
3786007.22	0.00055	0.00041	0.00028
3785944.08	0.00053	0.00038	0.00024
3785880.94	0.00056	0.00035	0.00021
3785817.80	0.00039	0.00032	0.00017
3785754.66	0.00020	0.00028	0.00014
3785691.52	0.00015	0.00016	0.00013
3785628.38	0.00013	0.00012	0.00012
3785565.24	0.00011	0.00011	0.00010
3785502.10	0.00010	0.00010	0.00009

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
315977.16	3786506.51	0.08381	316073.87	3786455.61	0.08500
316103.82	3786353.86	0.01613	316345.71	3786329.82	0.11369
316291.15	3786080.08	0.02200	316738.76	3786112.89	0.07435
316531.24	3786156.06	0.10976	316601.88	3786075.50	0.08012
316517.23	3785929.15	0.01484	316786.97	3786440.53	0.09171
316915.70	3786253.62	0.02201	317331.26	3786101.43	0.00570
317372.02	3786043.88	0.00304	317043.41	3786060.07	0.01078

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** THE SUMMARY OF MAXIMUM PERIOD (26304 HRS) RESULTS ***

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

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	1ST HIGHEST VALUE IS	0.14611	AT (315987.66, 3785754.66, 36.00, 548.30, 0.00)	GC	UCART1
	2ND HIGHEST VALUE IS	0.13839	AT (316099.69, 3785880.94, 37.40, 548.30, 0.00)	GC	UCART1
	3RD HIGHEST VALUE IS	0.13692	AT (316659.84, 3786322.92, 36.20, 548.30, 0.00)	GC	UCART1
	4TH HIGHEST VALUE IS	0.13509	AT (316659.84, 3786386.06, 36.30, 548.30, 0.00)	GC	UCART1
	5TH HIGHEST VALUE IS	0.13435	AT (316771.87, 3786259.78, 36.90, 548.30, 0.00)	GC	UCART1
	6TH HIGHEST VALUE IS	0.12657	AT (316435.78, 3786133.50, 37.00, 548.30, 0.00)	GC	UCART1
	7TH HIGHEST VALUE IS	0.12151	AT (316547.81, 3786259.78, 34.40, 548.30, 0.00)	GC	UCART1
	8TH HIGHEST VALUE IS	0.12135	AT (316435.78, 3786259.78, 33.80, 548.30, 0.00)	GC	UCART1
	9TH HIGHEST VALUE IS	0.12108	AT (316435.78, 3786196.64, 33.70, 548.30, 0.00)	GC	UCART1
	10TH HIGHEST VALUE IS	0.11969	AT (315987.66, 3785817.80, 33.70, 548.30, 0.00)	GC	UCART1

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

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

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

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

A Total of   0 Fatal Error Message(s)
A Total of   2 Warning Message(s)
A Total of   213 Informational Message(s)

A Total of   26304 Hours Were Processed

A Total of   0 Calm Hours Identified

A Total of   213 Missing Hours Identified (0.81 Percent)

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

   ********   WARNING MESSAGES   ********
ME W186   134   MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used   0.50
MX W403   134   PFLCNV: Turbulence data is being used w/o ADJ_U* option   SigA Data

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