
Air Quality Technical Report

501 Ocean Bluff Way Project City of Encinitas, California

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Acronyms and Abbreviations

Acronym/Abbreviation	Definition
°C	degrees Celsius
°F	degrees Fahrenheit
µg/m ³	micrograms per cubic meter
AB	Assembly Bill
AQMP	Air Quality Management Plan
CAA	Clean Air Act
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emissions Estimator Model
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CEQA	California Environmental Quality Act
City	City of Encinitas
CO	carbon monoxide
DPM	diesel particulate matter
EMFAC	EMissions FACTor model
EPA	U.S. Environmental Protection Agency
FAH	Fraction of Time at Home
g/L	grams per liter
H ₂ S	hydrogen sulfide
HAP	hazardous air pollutant
HRA	Health Risk Assessment
kW	kilowatt
LOS	level of service
MPO	metropolitan planning organization
NAAQS	National Ambient Air Quality Standards
NO	nitric oxide
NO ₂	nitrogen dioxide
NO _x	oxides of nitrogen
N ₂ O	nitrous oxide
O ₃	ozone
PM _{2.5}	fine particulate matter
PM ₁₀	coarse particulate matter
ppb	parts per billion
ppm	parts per million
OEHHA	Office of Environmental Health Hazard Assessment
Project	501 Ocean Bluff Way Project
RAQS	Regional Air Quality Strategy
RTP	Regional Transportation Plan
SANDAG	San Diego Association of Governments

Acronym/Abbreviation	Definition
SB	Senate Bill
SCS	Sustainable Communities Strategy
SDAB	San Diego Air Basin
SDAPCD	San Diego Air Pollution Control District
SDG&E	San Diego Gas & Electric Company
SIP	state implementation plan
SO ₂	sulfur dioxide
SO _x	sulfur oxides
TAC	toxic air contaminant
VMT	vehicle miles traveled
VOC	volatile organic compound

Executive Summary

The purpose of this technical report is to assess the potential air quality impacts associated with implementation of the 501 Ocean Bluff Way Project (Project). This assessment uses the significance thresholds in Appendix G of the California Environmental Quality Act (CEQA) Guidelines 14 CCR 15000 et seq.) and the emissions-based significance thresholds recommended by the County of San Diego and other applicable thresholds of significance. The City of Encinitas has chosen to apply the County of San Diego Screening Level Thresholds (SLT's) for determining mass daily criteria air pollutant thresholds of significance.

Project Overview

The proposed Project involves the subdivision and development of up to 27 single-family homes on 7.18 acres of currently vacant property. The project conforms with the City's existing land use and zoning designations, as well as the surrounding residential uses, after taking into account density bonus regulations.

Project Design Features

The proposed Project would implement the following project design features (PDFs) intended to reduce air quality emissions from Project construction and operations. The Project would implement **PDF-AQ-1 – PDF-AQ-5** as follows:

- PDF-AQ-1: **Fugitive Dust Control.** Standard construction practices would be employed to reduce fugitive dust emissions and include watering of the active sites and exposed surfaces up two times per day, depending on weather conditions; watering unpaved roads, and limiting vehicle speeds on unpaved roads. Construction of the Project would be subject to SDAPCD Rule 55 – Fugitive Dust Control. Compliance with Rule 55 would limit fugitive dust that may be generated during grading and construction activities.
- PDF-AQ-2: **Temporary Electric Power.** The Project will provide temporary electricity to the project site during the building construction phases and prohibit the use of diesel-fueled/natural gas fueled generators during the building construction phases.
- PDF-AQ-3: **Electric Air Compressors.** The Project will limit air compressors used during the architectural coating/painting phases to equipment that is electric-powered.
- PDF-AQ-4: **Electric Fireplaces.** Require the installation of only electric fireplaces in future residential construction. Future residential units are prohibited from having wood-burning fireplaces or stoves.
- PDF-AQ-5: **All-Electric Development.** This measure requires that the development shall use all-electric appliances and end uses. Using electric instead of natural gas-powered appliances and end uses replaces a more emissions-intensive fossil fuel source of energy with a less emissions-intensive source of energy, electricity from the grid that is increasingly transitioning to renewable sources.

PDF-AQ-1 through **PDF-AQ-5** would be required as City-imposed Conditions of Approval to ensure they are implemented during construction and operation of the proposed Project.

The air quality impact analysis evaluates the potential for adverse impacts to air quality due to construction and operational emissions resulting from the Project. The State CEQA Guidelines allow lead agencies to use the significance criteria established by the applicable air quality management district or air pollution control district to evaluate a project's impacts to air quality. The San Diego Air Pollution Control District (SDAPCD) has not developed thresholds of significance for air quality and health risk, however, the SDAPCD has provided emission levels under its permitting authority for new source review for which an Air Quality Impact Assessment (AQIA) is triggered. The County of San Diego has reviewed SDAPCD's trigger levels, as well as EPA rulemaking, and CEQA thresholds adopted by the South Coast Air Quality Management District (SCAQMD) to develop screening-level thresholds (SLTs) to assist lead agencies in determining the significance of project-level air quality impacts within the County. The City of Encinitas has chosen to apply the County of San Diego SLT's for determining mass daily criteria air pollutant thresholds of significance. Criteria air pollutants are defined as pollutants for which the federal and state governments have established ambient air quality standards (criteria) for outdoor concentrations to protect public health. Criteria air pollutants include ozone (O₃), nitrogen dioxide (NO₂), carbon monoxide (CO), sulfur dioxide (SO₂), particulate matter with an aerodynamic diameter less than or equal to 10 microns (PM₁₀), particulate matter with an aerodynamic diameter less than or equal to 2.5 microns (PM_{2.5}), and lead. Pollutants that are evaluated include volatile organic compounds (VOCs), oxides of nitrogen (NO_x), CO, sulfur oxides (SO_x), PM₁₀, and PM_{2.5}. VOCs and NO_x are important because they are precursors to O₃.

Air Quality Plan Consistency

If a project proposes development that is greater than that anticipated in the local plan and the growth projections set by the San Diego Association of Governments (SANDAG), the project might be in conflict with the State Implementation Plan and SDAPCD Regional Air Quality Strategy, and therefore may contribute to a potentially significant cumulative impact on air quality. Pursuant to Density Bonus Law, specifically Government Code Section 65915(f)(2), the Project proposes to reserve 17% of vase units for sale to very low-income households whose incomes do not exceed 50% of the area median income for a 50% density bonus for a total yield of 24 market rate units plus 3 very low-income units. Based on the allowances provided by Density Bonus Law, the Project was deemed to be consistent with the current air quality plan because it would not require a general plan amendment and rezone, the development intensity would be consistent with the existing land use designations taking into account density bonus regulations and the anticipated growth associated with the Project does not exceed that projected by SANDAG. In addition, the Project would not result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations as evidenced by its construction and operational emissions being less than County of San Diego thresholds of significance. Based on these considerations, impacts related to the Project's potential to conflict with or obstruct implementation of the applicable air quality plan would be less than significant.

Cumulatively Considerable Net Increase in Nonattainment Criteria Air Pollutant Emissions

Construction of the Project would result in the temporary addition of pollutants to the local airshed caused by on-site sources (i.e., off-road construction equipment, soil disturbance, and VOC off-gassing) and off-site sources (i.e., on-road haul trucks, vendor trucks, and worker vehicle trips). The maximum daily construction emissions would not exceed the County of San Diego significance thresholds for VOCs, NO_x, CO, SO_x, PM₁₀, or PM_{2.5} during construction. Therefore, the Project would have a less than significant impact.

The analysis herein assumed an operational year of 2027. Operation of the Project would generate operational criteria air pollutants from mobile sources (vehicles), area sources (consumer product use, architectural coatings, and landscape maintenance equipment), and energy (natural gas). Maximum operational emissions would not

exceed the County of San Diego operational significance thresholds for VOCs, NO_x, CO, SO_x, PM₁₀, or PM_{2.5}. Therefore, the Project would have a less than significant impact.

The potential for a project to result in a cumulatively considerable impact is based on the project's potential to exceed the project-specific daily thresholds. Because maximum construction and operational emissions would not exceed the County of San Diego significance thresholds for VOCs, NO_x, CO, SO_x, PM₁₀, or PM_{2.5}, the Project would not result in a cumulatively considerable increase in criteria air pollutants.

Exposure of Sensitive Receptors

Regarding potential carbon monoxide (CO) violations or hotspots, the County of San Diego concluded in its General Plan Update (2011) that there are no intersections within the County that are more congested than the South Coast Air Quality Management District's (SCAQMD) most congested intersections evaluated for CO hotspots in its 2003 CO attainment redesignation request to the United States Environmental Protection Agency (US EPA). As such, the County of San Diego concluded that there were no potential CO violations in the County. The proposed development will not result in traffic that exceeds traffic volumes considered in the County of San Diego General Plan Update analysis and CO concentrations in the project area are well below ambient air quality standards. The Project would not result in a CO hotspot given the above information and continued improvements in vehicle emissions over time. The impact would be less than significant.

A health risk assessment (HRA) was also conducted to determine the potential impacts of exposure to diesel particulate matter (DPM) during construction, which is a toxic air contaminant (TAC), at existing proximate sensitive receptors in the Project vicinity and future onsite receptors. The results of the HRA demonstrate that after implementation of **MM-AQ-1**, which requires use of Tier 4 Interim for equipment greater than 25 horsepower during construction, the TAC exposure from construction diesel exhaust emissions would not result in cancer risk above the 10 in 1 million thresholds, nor a Chronic Hazard Index greater than 1.0. Therefore, impacts to sensitive receptors would be less than significant with mitigation.

Other Emissions

Potential odors produced during construction would be attributable to concentrations of unburned hydrocarbons from tailpipes of construction equipment, architectural coatings, and asphalt pavement application, which would disperse rapidly from the Project site and generally occur at magnitudes that would not affect substantial numbers of people. Impacts associated with odors during construction would be less than significant. The Project would be a residential development that would not include land uses with sources that have the potential to generate substantial odors, and impacts associated with odors during operation would be less than significant.

Mitigation Measures

The project would include a mitigation measure to address toxic air contaminants (TAC) in the form of diesel particulate matter (DPM) during construction.

MM-AQ-1

Tier 4 Interim Construction Equipment. Prior to the commencement of construction activities for the project, the applicant shall require its construction contractor to use California Air Resources Board (CARB)-certified Tier 4 Interim engines for all diesel-powered equipment pieces that are 25 horsepower or greater through all phases of construction. In the event of changed circumstances (e.g. changes in

availability of specific types of construction equipment), the applicant may submit a request to the City of Encinitas Development Planning to apply an equivalent method for achieving project-generated construction emissions that fall below the numeric cancer risk standards established by the San Diego Air Pollution Control District (SDAPCD). Documentation using industry-standard emission estimation methodologies shall be furnished to the City of Encinitas Development Planning demonstrating that estimated project-generated construction emissions would not exceed the applicable SDAPCD cancer risk threshold with alternate construction method(s). If the documentation demonstrates the project-generated construction emissions will remain below the applicable SDAPCD cancer risk threshold, then the City of Encinitas Development Planning Director may approve the alternate construction method(s), at the Director’s discretion. Required construction equipment fleet and methodologies approved by the City of Encinitas shall be included in the contract specifications for the applicant’s construction contractor.

Summary of Findings

Table ES-1. Summary of Impact Determinations

Analysis	Report Section	CEQA Checklist Question	Significance Determinations	
			Unmitigated	Mitigated
Air Quality Management Plan	2.4.1	AQ-1	Less than Significant	No Mitigation Required.
Cumulatively Considerable Net Increase of Any Criteria Pollutant	2.4.2	AQ-2	Less than Significant	No Mitigation Required.
Sensitive Receptors	2.4.3	AQ-3	Potentially Significant	Less than Significant with Mitigation.
Other Emissions and Odors	2.4.4	AQ-4	Less than Significant	No Mitigation Required.

1 Introduction

1.1 Report Purpose and Scope

The purpose of this technical report is to assess the potential air quality emissions impacts associated with construction and operation of the 501 Ocean Bluff Way Project (Project). This analysis uses the significance thresholds in Appendix G of the California Environmental Quality Act (CEQA) Guidelines (14 CCR 15000 et seq.) and the emissions-based significance thresholds recommended by the County of San Diego and other applicable thresholds of significance.

1.2 Project Location

The 7.19-acre Project site is located on Assessor Parcel Numbers 258-140-23, -24, -25, and -26. The project site is located at 501 Ocean Bluff Way between Camino De Orchidia and Camino El Dorado, south of Encinitas Boulevard in the City of Encinitas, California. The project site is set in a built-up area of the City, with single-family residential to the south, multi-family to the north across Encinitas Boulevard, a self-storage facility to the east, and a shopping center to the west. The Encinitas and Delphinium bus stop is located directly north of the project site along the south side of Encinitas Boulevard.

1.3 Project Description

The proposed project would subdivide the property into 27 single-family lots, which would be developed with 27 one- and two-story single-family homes. The project proposes 24 residences to be market rate, and three to be reserved or very low income (11%), which allows the project to qualify for a density bonus under the State Density Bonus Law (Gov. Code 65915).

The homes would be built on the top of bluff where the site is generally flat. Approximately 2.23 acres of the 7.19-acre project site consists of 30- to 50-foot-tall slopes along the northern, eastern portions of the project site, resulting in a net area of 4.96 acres for development and a net density of 5.4 dwelling units per acre (du/ac). The project would not encroach into the 2.23 acres of sloped bluff area to the north and east.

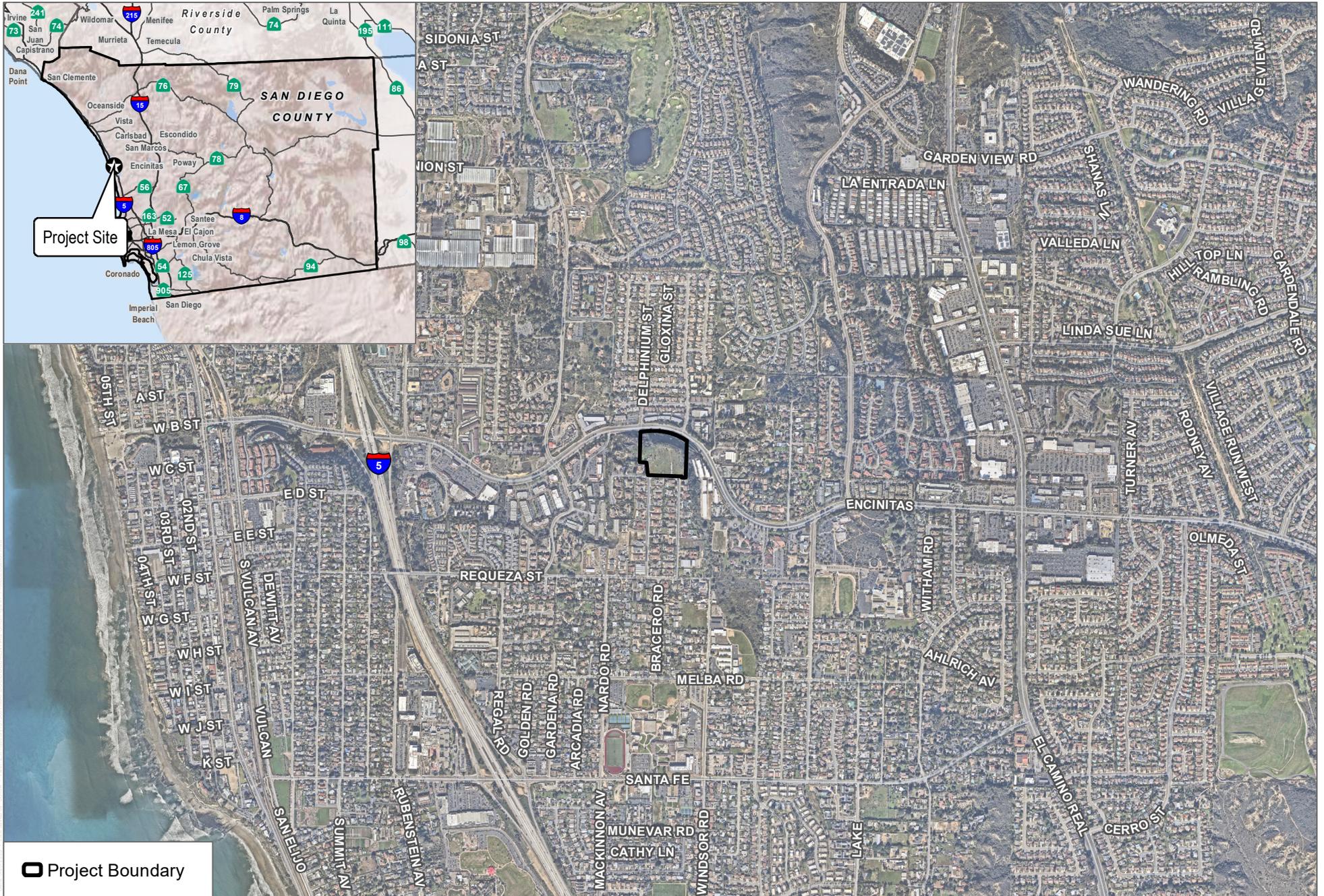
1.4 Project Design Features

The Project would implement construction-related and operational project design features (PDFs) intended to reduce emissions of criteria air pollutants and toxic air contaminants (TACs) as follows:

PDF-AQ-1: **Fugitive Dust Control.** Standard construction practices would be employed to reduce fugitive dust emissions and include watering of the active sites and exposed surfaces up two times per day, depending on weather conditions; watering unpaved roads, and limiting vehicle speeds on unpaved roads. Construction of the Project would be subject to SDAPCD Rule 55 – Fugitive Dust Control. Compliance with Rule 55 would limit fugitive dust that may be generated during grading and construction activities.

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PDF-AQ-1 through PDF-AQ-5 would be required as City-imposed Conditions of Approval to ensure they are implemented during construction and operation of the proposed Project.



SOURCE: San Diego Public Imagery 2019



FIGURE 1
Project Location
 Ocean Bluff Project

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SOURCE: San Diego Public Imagery 2019

FIGURE 2
Site Plan
 Ocean Bluff Project

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2 Air Quality

2.1 Environmental Setting

2.1.1 Climate and Topography

The weather of the San Diego region, as in most of Southern California, is influenced by the Pacific Ocean and its semi-permanent high-pressure systems that result in dry, warm summers and mild, occasionally wet winters. The average temperature ranges (in degrees Fahrenheit) from the mid-40s to the high 90s. Most of the region's precipitation falls from November to April, with infrequent (approximately 10%) precipitation during the summer. The average seasonal precipitation along the coast is approximately 10 inches; the amount increases with elevation as moist air is lifted over the mountains (WRCC 2016).

The topography in the San Diego region varies greatly, from beaches on the west to mountains and desert on the east; along with local meteorology, it influences the dispersal and movement of pollutants in the basin. The mountains to the east prohibit dispersal of pollutants in that direction and help trap them in inversion layers.

The interaction of ocean, land, and the Pacific High-Pressure Zone maintains clear skies for much of the year and influences the direction of prevailing winds (westerly to northwesterly). Local terrain is often the dominant factor inland, and winds in inland mountainous areas tend to blow through the valleys during the day and down the hills and valleys at night.

2.1.2 San Diego Air Basin Climatology

The Project area is located within the San Diego Air Basin (SDAB) and is subject to the SDAPCD guidelines and regulations. The SDAB is one of 15 air basins that geographically divide the State of California. The SDAB is currently classified as a federal nonattainment area for ozone (O_3) and a state nonattainment area for particulate matter less than 10 microns (PM_{10}), particulate matter less than 2.5 microns ($PM_{2.5}$), and O_3 .

The SDAB, which lies in the southwest corner of California and comprises the entire San Diego region, covers 4,260 square miles and is an area of high air pollution potential. The SDAB experiences warm summers, mild winters, infrequent rainfalls, light winds, and moderate humidity. This usually mild climatological pattern is interrupted infrequently by periods of extremely hot weather, winter storms, or Santa Ana winds.

The SDAB experiences frequent temperature inversions. Subsidence inversions occur during the warmer months as descending air associated with the Pacific High-Pressure Zone meets cool marine air. The boundary between the two layers of air creates a temperature inversion that traps pollutants. The other type of inversion, a radiation inversion, develops on winter nights when air near the ground cools by heat radiation and air aloft remains warm. The shallow inversion layer formed between these two air masses also can trap pollutants. As the pollutants become more concentrated in the atmosphere, photochemical reactions occur that produce O_3 , which contributes to the formation of smog. Smog is a combination of smoke and other particulates, O_3 , hydrocarbons, oxides of nitrogen (NO_x) and other chemically reactive compounds which, under certain conditions of weather and sunlight, may result in a murky brown haze that causes adverse health effects (CARB 2022a).

Light daytime winds, predominantly from the west, further aggravate the condition by driving air pollutants inland, toward the mountains. During the fall and winter, air quality problems are created due to carbon monoxide (CO) and NO_x emissions. CO concentrations are generally higher in the morning and late evening. In the morning, CO levels are elevated due to cold temperatures and the large number of motor vehicles traveling. Higher CO levels during the late evenings are a result of stagnant atmospheric conditions trapping CO in the area. Since CO is produced almost entirely from automobiles, the highest CO concentrations in the SDAB are associated with heavy traffic. Nitrogen dioxide (NO₂) levels are also generally higher during fall and winter days.

Under certain conditions, atmospheric oscillation results in the offshore transport of air from the Los Angeles region to San Diego County. This often produces high O₃ concentrations, as measured at air pollutant monitoring stations within San Diego County. The transport of air pollutants from Los Angeles to San Diego has also occurred within the stable layer of the elevated subsidence inversion, where high levels of O₃ are transported.

2.1.3 Sensitive Receptors

Air quality varies as a direct function of the amount of pollutants emitted into the atmosphere, the size and topography of the air basin, and the prevailing meteorological conditions. Air quality problems arise when the rate of pollutant emissions exceeds the rate of dispersion.

Some land uses are considered more sensitive to changes in air quality than others, depending on the population groups and the activities involved. People most likely to be affected by air pollution, as identified by the California Air Resources Board (CARB), include children, older adults, and people with cardiovascular and chronic respiratory diseases. According to the SDAPCD, sensitive receptors are those who are especially susceptible to adverse health effects from exposure to toxic air contaminants, such as children, the elderly, and the ill. Sensitive receptors include residences, schools (grades Kindergarten through 12), libraries, day care centers, nursing homes, retirement homes, health clinics, and hospitals within 2 kilometers of the facility (SDAPCD 2022a). The closest sensitive receptors to the Project site are single-family residences immediately adjacent on the western and southern boundaries of the site. Nearby schools include The Rhoades Middle School, approximately 500 feet east of the project site, St. John School, approximately 1,100 feet southeast of the project site, Sunset High School, approximately 1,200 feet southwest of the project site, and the Phoenix Learning Center approximately 1,600 feet southwest of the project site.

2.1.4 Pollutants and Effects

2.1.4.1 Criteria Air Pollutants

Criteria air pollutants are defined as pollutants for which the federal and state governments have established ambient air quality standards, or criteria, for outdoor concentrations to protect public health. The federal and state standards have been set, with an adequate margin of safety, at levels above which concentrations could be harmful to human health and welfare. These standards are designed to protect the most sensitive persons from illness or discomfort. Pollutants of concern include O₃, NO₂, CO, sulfur dioxide (SO₂), PM₁₀, PM_{2.5}, and lead. These pollutants

are discussed in the following paragraphs.¹ In California, sulfates, vinyl chloride, hydrogen sulfide, and visibility-reducing particles are also regulated as criteria air pollutants.

Ozone (O₃). O₃ is a strong-smelling, pale blue, reactive, toxic chemical gas consisting of three oxygen atoms. It is a secondary pollutant formed in the atmosphere by a photochemical process involving the sun's energy and O₃ precursors. These precursors are mainly NO_x and VOCs. The maximum effects of precursor emissions on O₃ concentrations usually occur several hours after they are emitted and many miles from the source. Meteorology and terrain play major roles in O₃ formation, and ideal conditions occur during summer and early autumn on days with low wind speeds or stagnant air, warm temperatures, and cloudless skies. O₃ exists in the upper atmosphere O₃ layer (stratospheric O₃) and at the Earth's surface in the troposphere.² The O₃ that the U.S. Environmental Protection Agency (EPA) and the CARB regulate as a criteria air pollutant is produced close to the ground level, where people live, exercise, and breathe. Ground-level O₃ is a harmful air pollutant that causes numerous adverse health effects and is thus considered "bad" O₃. Stratospheric, or "good," O₃ occurs naturally in the upper atmosphere, where it reduces the amount of ultraviolet light (i.e., solar radiation) entering the Earth's atmosphere. Without the protection of the beneficial stratospheric O₃ layer, plant and animal life would be seriously harmed.

O₃ in the troposphere causes numerous adverse health effects; short-term exposures (lasting for a few hours) to O₃ at levels typically observed in Southern California can result in breathing pattern changes, reduction of breathing capacity, increased susceptibility to infections, inflammation of the lung tissue, and some immunological changes (EPA 2013).

Inhalation of O₃ causes inflammation and irritation of the tissues lining human airways, causing and worsening a variety of symptoms. Exposure to O₃ can reduce the volume of air that the lungs breathe in, thereby causing shortness of breath. O₃ in sufficient doses increases the permeability of lung cells, rendering them more susceptible to toxins and microorganisms. The occurrence and severity of health effects from O₃ exposure vary widely among individuals, even when the dose and the duration of exposure are the same. Research shows adults and children who spend more time outdoors participating in vigorous physical activities are at greater risk from the harmful health effects of O₃ exposure. While there are relatively few studies on the effects of O₃ on children, the available studies show that children are no more or less likely to suffer harmful effects than adults. However, there are a number of reasons why children may be more susceptible to O₃ and other pollutants. Children and teens spend nearly twice as much time outdoors and engaged in vigorous activities as adults. Children breathe more rapidly than adults and inhale more pollution per pound of their body weight than adults. Also, children are less likely than adults to notice their own symptoms and avoid harmful exposures. Further research may be able to better distinguish between health effects in children and adults. Children, adolescents and adults who exercise or work outdoors, where O₃ concentrations are the highest, are at the greatest risk of harm from this pollutant (CARB 2023a).

Nitrogen Dioxide (NO₂). NO₂ is a brownish, highly reactive gas that is present in all urban atmospheres. The major mechanism for the formation of NO₂ in the atmosphere is the oxidation of the primary air pollutant nitric oxide (NO), which is a colorless, odorless gas. NO_x plays a major role, together with VOCs, in the atmospheric reactions that produce O₃. NO_x is formed from fuel combustion under high temperature or pressure. In addition, NO_x is an

¹ The following descriptions of health effects for each of the criteria air pollutants associated with project construction and operations are based on the U.S. Environmental Protection Agency's "Six Common Air Pollutants" (EPA 2017a) and the California Air Resources Board's "Glossary of Air Pollutant Terms" (CARB 2017) published information.

² The troposphere is the layer of the Earth's atmosphere nearest to the surface of the Earth. The troposphere extends outward about 5 miles at the poles and about 10 miles at the equator.

important precursor to acid rain and may affect both terrestrial and aquatic ecosystems. The two major emissions sources are transportation and stationary fuel combustion sources such as electric utility and industrial boilers.

NO₂ can irritate the lungs, cause bronchitis and pneumonia, and lower resistance to respiratory infections (EPA 2016a). A large body of health science literature indicates that exposure to NO₂ can induce adverse health effects. The strongest health evidence, and the health basis for the ambient air quality standards for NO₂, results from controlled human exposure studies that show that NO₂ exposure can intensify responses to allergens in allergic asthmatics. In addition, a number of epidemiological studies have demonstrated associations between NO₂ exposure and premature death, cardiopulmonary effects, decreased lung function growth in children, respiratory symptoms, emergency room visits for asthma, and intensified allergic responses. Infants and children are particularly at risk because they have disproportionately higher exposure to NO₂ than adults due to their greater breathing rate for their body weight and their typically greater outdoor exposure duration. Several studies have shown that long-term NO₂ exposure during childhood, the period of rapid lung growth, can lead to smaller lungs at maturity in children with higher levels of exposure compared to children with lower exposure levels. In addition, children with asthma have a greater degree of airway responsiveness compared with adult asthmatics. In adults, the greatest risk is to people who have chronic respiratory diseases, such as asthma and chronic obstructive pulmonary disease (CARB 2023b).

Carbon Monoxide (CO). CO is a colorless, odorless gas formed by the incomplete combustion of hydrocarbon, or fossil fuels. CO is emitted almost exclusively from motor vehicles, power plants, refineries, industrial boilers, ships, aircraft, and trains. In urban areas, such as the Project location, automobile exhaust accounts for the majority of CO emissions. CO is a non-reactive air pollutant that dissipates relatively quickly; therefore, ambient CO concentrations generally follow the spatial and temporal distributions of vehicular traffic. CO concentrations are influenced by local meteorological conditions—primarily wind speed, topography, and atmospheric stability. CO from motor vehicle exhaust can become locally concentrated when surface-based temperature inversions are combined with calm atmospheric conditions, which is a typical situation at dusk in urban areas from November to February. The highest levels of CO typically occur during the colder months of the year, when inversion conditions are more frequent.

CO is harmful because it binds to hemoglobin in the blood, reducing the ability of blood to carry oxygen. This interferes with oxygen delivery to the body's organs. The most common effects of CO exposure are fatigue, headaches, confusion and reduced mental alertness, light-headedness, and dizziness due to inadequate oxygen delivery to the brain. For people with cardiovascular disease, short-term CO exposure can further reduce their body's already compromised ability to respond to the increased oxygen demands of exercise, exertion, or stress. Inadequate oxygen delivery to the heart muscle leads to chest pain and decreased exercise tolerance. Unborn babies whose mothers experience high levels of CO exposure during pregnancy are at risk of adverse developmental effects. Unborn babies, infants, elderly people, and people with anemia or with a history of heart or respiratory disease are most likely to experience health effects with exposure to elevated levels of CO (CARB 2023c).

Sulfur Dioxide (SO₂). SO₂ is a colorless, pungent gas formed primarily from incomplete combustion of sulfur-containing fossil fuels. The main sources of SO₂ are coal and oil used in power plants and industries; as such, the highest levels of SO₂ are generally found near large industrial complexes. In recent years, SO₂ concentrations have been reduced by the increasingly stringent controls placed on stationary source emissions of SO₂ and limits on the sulfur content of fuels.

Controlled human exposure and epidemiological studies show that children and adults with asthma are more likely to experience adverse responses with SO₂ exposure, compared with the non-asthmatic population. Effects at levels

near the 1-hour standard are those of asthma exacerbation, including bronchoconstriction accompanied by symptoms of respiratory irritation such as wheezing, shortness of breath, and chest tightness, especially during exercise or physical activity. Also, exposure at elevated levels of SO₂ (above 1 parts per million [ppm]) results in increased incidence of pulmonary symptoms and disease, decreased pulmonary function, and increased risk of mortality. Older people and people with cardiovascular disease or chronic lung disease (such as bronchitis or emphysema) are most likely to experience these adverse effects (CARB 2023d).

SO₂ is of concern both because it is a direct respiratory irritant and because it contributes to the formation of sulfate and sulfuric acid in particulate matter (NRC 2005). People with asthma are of particular concern, both because they have increased baseline airflow resistance and because their SO₂-induced increase in airflow resistance is greater than in healthy people, and it increases with the severity of their asthma (NRC 2005). SO₂ is thought to induce airway constriction via neural reflexes involving irritant receptors in the airways (NRC 2005).

Particulate Matter (PM). Particulate matter pollution consists of very small liquid and solid particles floating in the air, which can include smoke, soot, dust, salts, acids, and metals. Particulate matter can form when gases emitted from industries and motor vehicles undergo chemical reactions in the atmosphere. PM_{2.5} and PM₁₀ represent fractions of particulate matter. Coarse particulate matter (PM₁₀) consists of particulate matter that is 10 microns or less in diameter and is about 1/7 the thickness of a human hair. Major sources of PM₁₀ include crushing or grinding operations; dust stirred up by vehicles traveling on roads; wood-burning stoves and fireplaces; dust from construction, landfills, and agriculture; wildfires and brush/waste burning; industrial sources; windblown dust from open lands; and atmospheric chemical and photochemical reactions. Fine particulate matter (PM_{2.5}) consists of particulate matter that is 2.5 microns or less in diameter and is roughly 1/28 the diameter of a human hair. PM_{2.5} results from fuel combustion (e.g., from motor vehicles and power generation and industrial facilities), residential fireplaces, and woodstoves. In addition, PM_{2.5} can be formed in the atmosphere from gases such as sulfur oxides (SO_x), NO_x, and VOCs.

PM_{2.5} and PM₁₀ pose a greater health risk than larger-size particles. When inhaled, these tiny particles can penetrate the human respiratory system's natural defenses and damage the respiratory tract. PM_{2.5} and PM₁₀ can increase the number and severity of asthma attacks, cause or aggravate bronchitis and other lung diseases, and reduce the body's ability to fight infections. Very small particles of substances such as lead, sulfates, and nitrates can cause lung damage directly or be absorbed into the blood stream, causing damage elsewhere in the body. Additionally, these substances can transport adsorbed gases such as chlorides or ammonium into the lungs, also causing injury. Whereas PM₁₀ tends to collect in the upper portion of the respiratory system, PM_{2.5} is so tiny that it can penetrate deeper into the lungs and damage lung tissue. Suspended particulates also damage and discolor surfaces on which they settle and produce haze and reduce regional visibility.

A number of adverse health effects have been associated with exposure to both PM_{2.5} and PM₁₀. For PM_{2.5}, short-term exposures (up to 24-hour duration) have been associated with premature mortality, increased hospital admissions for heart or lung causes, acute and chronic bronchitis, asthma attacks, emergency room visits, respiratory symptoms, and restricted activity days. These adverse health effects have been reported primarily in infants, children, and older adults with preexisting heart or lung diseases. In addition, of all of the common air pollutants, PM_{2.5} is associated with the greatest proportion of adverse health effects related to air pollution, both in the United States and worldwide based on the World Health Organization's Global Burden of Disease Project. Short-term exposures to PM₁₀ have been associated primarily with worsening of respiratory diseases, including asthma and chronic obstructive pulmonary disease, leading to hospitalization and emergency department visits (CARB 2017).

Long-term exposure (months to years) to PM_{2.5} has been linked to premature death, particularly in people who have chronic heart or lung diseases, and reduced lung function growth in children. The effects of long-term exposure to PM₁₀ are less clear, although several studies suggest a link between long-term PM₁₀ exposure and respiratory mortality. The International Agency for Research on Cancer published a review in 2015 that concluded that particulate matter in outdoor air pollution causes lung cancer (CARB 2017).

Lead. Lead in the atmosphere occurs as particulate matter. Sources of lead include leaded gasoline; the manufacturing of batteries, paints, ink, ceramics, and ammunition; and secondary lead smelters. Prior to 1978, mobile emissions were the primary source of atmospheric lead. Between 1978 and 1987, the phaseout of leaded gasoline reduced the overall inventory of airborne lead by nearly 95%. With the phaseout of leaded gasoline, secondary lead smelters, battery recycling, and manufacturing facilities are becoming lead-emissions sources of greater concern.

Prolonged exposure to atmospheric lead poses a serious threat to human health. Health effects associated with exposure to lead include gastrointestinal disturbances, anemia, kidney disease, and in severe cases, neuromuscular and neurological dysfunction. Of particular concern are low-level lead exposures during infancy and childhood. Such exposures are associated with decrements in neurobehavioral performance, including IQ performance, psychomotor performance, reaction time, and growth. Children are highly susceptible to the effects of lead.

Volatile Organic Compounds (VOCs). Hydrocarbons are organic gases that are formed from hydrogen and carbon and sometimes other elements. Hydrocarbons that contribute to formation of O₃ are referred to and regulated as VOCs (also referred to as reactive organic gases). Combustion engine exhaust, oil refineries, and fossil-fueled power plants are the sources of hydrocarbons. Other sources of hydrocarbons include evaporation from petroleum fuels, solvents, dry-cleaning solutions, and paint.

The primary health effects of VOCs result from the formation of O₃ and its related health effects. High levels of VOCs in the atmosphere can interfere with oxygen intake by reducing the amount of available oxygen through displacement. Carcinogenic forms of hydrocarbons, such as benzene, are considered TACs.

Sulfates. Sulfates are the fully oxidized form of sulfur, which typically occur in combination with metals or hydrogen ions. Sulfates are produced from reactions of SO₂ in the atmosphere and can result in respiratory impairment, as well as reduced visibility.

Vinyl Chloride. Vinyl chloride is a colorless gas with a mild, sweet odor, which has been detected near landfills, sewage plants, and hazardous waste sites, due to the microbial breakdown of chlorinated solvents. Short-term exposure to high levels of vinyl chloride in air can cause nervous system effects, such as dizziness, drowsiness, and headaches. Long-term exposure through inhalation can cause liver damage, including liver cancer.

Hydrogen Sulfide. Hydrogen sulfide is a colorless and flammable gas that has a characteristic odor of rotten eggs. Sources of hydrogen sulfide include geothermal power plants, petroleum refineries, sewers, and sewage treatment plants. Exposure to hydrogen sulfide can result in nuisance odors, as well as headaches and breathing difficulties at higher concentrations.

Visibility-Reducing Particles. Visibility-reducing particles are any particles in the air that obstruct the range of visibility. Effects of reduced visibility can include obscuring the viewshed of natural scenery, reducing airport safety, and discouraging tourism. Sources of visibility-reducing particles are the same as for PM_{2.5}.

2.1.4.2 Non-Criteria Pollutants

Toxic Air Contaminants (TACs). A substance is considered toxic if it has the potential to cause adverse health effects in humans, including increasing the risk of cancer upon exposure, or acute and/or chronic noncancer health effects. A toxic substance released into the air is considered a TAC. TACs are identified by federal and state agencies based on a review of available scientific evidence. In the State of California, TACs are identified through a two-step process that was established in 1983 under the Toxic Air Contaminant Identification and Control Act. This two-step process of risk identification and risk management and reduction was designed to protect residents from the health effects of toxic substances in the air. In addition, the California Air Toxics “Hot Spots” Information and Assessment Act, Assembly Bill (AB) 2588, was enacted by the legislature in 1987 to address public concern over the release of TACs into the atmosphere. The law requires facilities emitting toxic substances to provide local air pollution control districts with information that will allow an assessment of the air toxics problem, identification of air toxics emissions sources, location of resulting hotspots, notification of the public exposed to significant risk, and development of effective strategies to reduce potential risks to the public over 5 years.

Examples include certain aromatic and chlorinated hydrocarbons, certain metals, and asbestos. TACs are generated by a number of sources, including stationary sources such as dry cleaners, gas stations, combustion sources, and laboratories; mobile sources such as automobiles; and area sources such as landfills. Adverse health effects associated with exposure to TACs may include carcinogenic (i.e., cancer-causing) and noncarcinogenic effects. Noncarcinogenic effects typically affect one or more target organ systems and may be experienced on either short-term (acute) or long-term (chronic) exposure to a given TAC.

Diesel Particulate Matter (DPM). DPM is part of a complex mixture that makes up diesel exhaust. Diesel exhaust is composed of two phases, gas and particle, both of which contribute to health risks. More than 90% of DPM is less than 1 micrometer in diameter (about 1/70th the diameter of a human hair), and thus is a subset of PM_{2.5} (CARB 2022b). DPM is typically composed of carbon particles (“soot,” also called black carbon) 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 (CARB 2022b). CARB classified “particulate emissions from diesel-fueled engines” (i.e., DPM) as a TAC in August 1998 (17 CCR 93000). DPM is emitted from a broad range of diesel engines: on-road diesel engines of trucks, buses, and cars and off-road diesel engines including locomotives, marine vessels, and heavy-duty construction equipment, among others. Approximately 70% of all airborne cancer risk in California is associated with DPM (CARB 2000). To reduce the cancer risk associated with DPM, CARB adopted a diesel risk reduction plan in 2000 (CARB 2000). Because it is part of PM_{2.5}, DPM also contributes to the same non-cancer health effects as PM_{2.5} exposure. These effects include premature death; hospitalizations and emergency department visits for exacerbated chronic heart and lung disease, including asthma; increased respiratory symptoms; and decreased lung function in children. Several studies suggest that exposure to DPM may also facilitate development of new allergies (CARB 2022b). Those most vulnerable to non-cancer health effects are children whose lungs are still developing and the elderly who often have chronic health problems.

Odorous Compounds. Odors are generally regarded as an annoyance rather than a health hazard. Manifestations of a person’s reaction to odors can range from psychological (e.g., irritation, anger, or anxiety) to physiological (e.g., circulatory and respiratory effects, nausea, vomiting and headache). The ability to detect odors varies considerably among the population and overall is quite subjective. People may have different reactions to the same odor. An odor that is offensive to one person may be perfectly acceptable to another (e.g., coffee roaster). An unfamiliar odor is more easily detected and is more likely to cause complaints than a familiar one. In a phenomenon known as odor

fatigue, a person can become desensitized to almost any odor, and recognition may only occur with an alteration in the intensity. The occurrence and severity of odor impacts depend on the nature, frequency, and intensity of the source; wind speed and direction; and the sensitivity of receptors.

Valley Fever. Coccidioidomycosis, more commonly known as “Valley Fever,” is an infection caused by inhalation of the spores of the *Coccidioides immitis* fungus, which grows in the soils of the southwestern United States. The fungus is very prevalent in the soils of California’s San Joaquin Valley, particularly in Kern County. Kern County is considered a highly endemic county (i.e., more than 20 cases annually of Valley Fever per 100,000 people) based on the incidence rates reported through 2016 (California Department of Public Health 2017). The ecologic factors that appear to be most conducive to survival and replication of the spores are high summer temperatures, mild winters, sparse rainfall, and alkaline, sandy soils.

San Diego County (County) is not considered a highly endemic region for Valley Fever, as the latest report from the County of San Diego Health and Human Services Agency Public Health Services indicated the County has 8.3 cases per 100,000 people (County of San Diego 2019). In the zip code area of the Project site, the case rate is reported as 3.5 cases per 100,000 people (County of San Diego 2021).

2.2 Regulatory Setting

2.2.1 Federal

2.2.1.1 Criteria Pollutants

The federal Clean Air Act (CAA), passed in 1970 and last amended in 1990, forms the basis for the national air pollution control effort. The EPA is responsible for implementing most aspects of the CAA, including the setting of National Ambient Air Quality Standards (NAAQS) for major air pollutants, hazardous air pollutant (HAP) standards, approval of state attainment plans, motor vehicle emission standards, stationary source emission standards and permits, acid rain control measures, stratospheric O₃ protection, and enforcement provisions.

NAAQS are established by the EPA for “criteria pollutants” under the CAA, which are O₃, CO, NO₂, SO₂, PM₁₀, PM_{2.5}, and lead. The NAAQS describe acceptable air quality conditions designed to protect the health and welfare of the citizens of the nation. The CAA requires the EPA to reassess the NAAQS at least every 5 years to determine whether adopted standards are adequate to protect public health based on current scientific evidence. States with areas that exceed the NAAQS must prepare a state implementation plan (SIP) that demonstrates how those areas will attain the standards within mandated time frames.

2.2.1.2 Hazardous Air Pollutants

The 1977 CAA Amendments required the EPA to identify national emission standards for hazardous air pollutants to protect the public health and welfare. HAPs include certain volatile organic chemicals, pesticides, herbicides, and radionuclides that present a tangible hazard, based on scientific studies of exposure to humans and other mammals. Under the 1990 CAA Amendments, which expanded the control program for HAPs, 189 substances and chemical families were identified as HAPs.

2.2.2 State

2.2.2.1 Criteria Pollutants

The California Clean Air Act was adopted in 1988 and establishes the state's air quality goals, planning mechanisms, regulatory strategies, and standards of progress. Under the California Clean Air Act, the task of air quality management and regulation has been legislatively granted to CARB, with subsidiary responsibilities assigned to air quality management districts and air pollution control districts at the regional and county levels. CARB is responsible for ensuring implementation of the California Clean Air Act, responding to the federal CAA, and regulating emissions from motor vehicles and consumer products. Pursuant to the authority granted to it, CARB has established California Ambient Air Quality Standards (CAAQS), which are generally more restrictive than the NAAQS.

The NAAQS and CAAQS are presented in Table 1.

Table 1. Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards ^a	National Standards ^b	
		Concentration ^c	Primary ^{c,d}	Secondary ^{c,e}
O ₃	1 hour	0.09 ppm (180 µg/m ³)	—	Same as primary standard ^f
	8 hours	0.070 ppm (137 µg/m ³)	0.070 ppm (137 µg/m ³) ^f	
NO ₂ ^g	1 hour	0.18 ppm (339 µg/m ³)	0.100 ppm (188 µg/m ³)	Same as primary standard
	Annual arithmetic mean	0.030 ppm (57 µg/m ³)	0.053 ppm (100 µg/m ³)	
CO	1 hour	20 ppm (23 mg/m ³)	35 ppm (40 mg/m ³)	None
	8 hours	9.0 ppm (10 mg/m ³)	9 ppm (10 mg/m ³)	
SO ₂ ^h	1 hour	0.25 ppm (655 µg/m ³)	0.075 ppm (196 µg/m ³)	—
	3 hours	—	—	0.5 ppm (1,300 µg/m ³)
	24 hours	0.04 ppm (105 µg/m ³)	0.14 ppm (for certain areas) ^g	—
	Annual	—	0.030 ppm (for certain areas) ^g	—
PM ₁₀ ⁱ	24 hours	50 µg/m ³	150 µg/m ³	Same as primary standard
	Annual arithmetic mean	20 µg/m ³	—	
PM _{2.5} ⁱ	24 hours	—	35 µg/m ³	Same as primary standard
	Annual arithmetic mean	12 µg/m ³	9.0 µg/m ³		15.0 µg/m^{3}
Lead ^{i, k}	30-day average	1.5 µg/m ³	—	—
	Calendar quarter	—	1.5 µg/m ³ (for certain areas) ^k	—

Table 1. Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards ^a	National Standards ^b	
		Concentration ^c	Primary ^{c,d}	Secondary ^{c,e}
	Rolling 3-month average	—	0.15 µg/m ³	Same as primary standard
Hydrogen sulfide	1 hour	0.03 ppm (42 µg/m ³)	—	—
Vinyl chloride ^f	24 hours	0.01 ppm (26 µg/m ³)	—	—
Sulfates	24- hours	25 µg/m ³	—	—
Visibility reducing particles	8 hour (10:00 a.m. to 6:00 p.m. PST)	Insufficient amount to produce an extinction coefficient of 0.23 per kilometer due to the number of particles when the relative humidity is less than 70%	—	—

Source: CARB 2016.

Notes: O₃ = ozone; ppm = parts per million by volume; µg/m³ = micrograms per cubic meter; NO₂ = nitrogen dioxide; CO = carbon monoxide; mg/m³ = milligrams per cubic meter; SO₂ = sulfur dioxide; PM₁₀ = particulate matter with an aerodynamic diameter less than or equal to 10 microns; PM_{2.5} = particulate matter with an aerodynamic diameter less than or equal to 2.5 microns.

- ^a California standards for O₃, CO, SO₂ (1-hour and 24-hour), NO₂, suspended particulate matter (PM₁₀, PM_{2.5}), and visibility-reducing particles are values that are not to be exceeded. All others are not to be equaled or exceeded. CAAQS are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.
- ^b National standards (other than O₃, NO₂, SO₂, particulate matter, and those based on annual averages or annual arithmetic mean) are not to be exceeded more than once per year. The O₃ standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over 3 years, is equal to or less than the standard. For PM₁₀, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m³ is equal to or less than 1. For PM_{2.5}, the 24-hour standard is attained when 98% of the daily concentrations, averaged over 3 years, are equal to or less than the standard.
- ^c Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based on a reference temperature of 25° Celsius (°C) and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.
- ^d National Primary Standards: The levels of air quality necessary, with an adequate margin of safety, to protect the public health.
- ^e National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.
- ^f On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.
- ^g To attain the national 1-hour standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 parts per billion (ppb). Note that the national 1-hour standard is in units of ppb. California standards are in units of ppm. To directly compare the national 1-hour standard to the California standards, the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.
- ^h On June 2, 2010, a new 1-hour SO₂ standard was established, and the existing 24-hour and annual primary standards were revoked. To attain the national 1-hour standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO₂ national standards (24-hour and annual) remain in effect until 1 year after an area is designated for the 2010 standard, except that in areas designated nonattainment of the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.
- ⁱ On December 14, 2012, the national annual PM_{2.5} primary standard was lowered from 15 µg/m³ to 12.0 µg/m³. The existing national 24-hour PM_{2.5} standards (primary and secondary) were retained at 35 µg/m³, as was the annual secondary standard of 15 µg/m³. The existing 24-hour PM₁₀ standards (primary and secondary) of 150 µg/m³ were also retained. The form of the annual primary and secondary standards is the annual mean averaged over 3 years.
- ^j CARB has identified lead and vinyl chloride as TACs with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.
- ^k The national standard for lead was revised on October 15, 2008, to a rolling 3-month average. The 1978 lead standard (1.5 µg/m³ as a quarterly average) remains in effect until 1 year after an area is designated for the 2008 standard, except that in areas

designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.

Ambient Air Quality Monitoring Data

SDAPCD operates a network of ambient air monitoring stations throughout the County, which measure ambient concentrations of pollutants and determine whether the ambient air quality meets the CAAQS and the NAAQS. SDAPCD monitors air quality conditions at 10 locations throughout the basin. The Camp Pendleton monitoring station represents the closest monitoring station to the Project site for concentrations for O₃, PM_{2.5}, and NO₂. The Escondido monitoring station is the closest monitoring station for CO. The closest monitoring station for SO₂ and PM₁₀ is the El Cajon monitoring station. Ambient concentrations of pollutants from 2021 through 2023 are presented in Table 2.

Table 2. Local Ambient Air Quality Data

Monitoring Station	Unit	Averaging Time	Agency/ Method	Ambient Air Quality Standard	Measured Concentration by Year			Exceedances by Year		
					2021	2022	2023	2021	2022	2023
Ozone (O₃)										
Camp Pendleton	ppm	Maximum 1-hour concentration	State	0.09	0.074	0.076	0.090	0	0	0
	ppm	Maximum 8-hour concentration	State	0.070	0.059	0.067	0.077	0	0	1
			Federal	0.070	0.059	0.67	0.077	0	0	1
Nitrogen Dioxide (NO₂)										
Camp Pendleton	ppm	Maximum 1-hour concentration	State	0.18	0.059	0.050	0.063	0	0	0
			Federal	0.100	0.059	0.050	0.063	0	0	0
	ppm	Annual concentration	State	0.030	0.005	0.005	0.005	0	0	0
			Federal	0.053	0.005	0.005	0.005	0	0	0
Carbon Monoxide (CO)										
Escondido-Rancho Carmel Drive	ppm	Maximum 1-hour concentration	State	20	3.0	2.2	1.6	0	0	0
			Federal	35	3.0	2.2	1.6	0	0	0
	ppm	Maximum 8-hour concentration	State	9.0	1.8	1.2	1.1	0	0	0
			Federal	9	1.8	1.2	1.1	0	0	0

Table 2. Local Ambient Air Quality Data

Monitoring Station	Unit	Averaging Time	Agency/ Method	Ambient Air Quality Standard	Measured Concentration by Year			Exceedances by Year		
					2021	2022	2023	2021	2022	2023
Sulfur Dioxide (SO₂)										
Lexington Elementary School	ppm	Maximum 1-hour concentration	Federal	0.075	0.002	0.001	0.001	0	0	0
	ppm	Maximum 24-hour concentration	State	0.04	0.000	0.000	0.000	0	0	0
			Federal	0.140	0.000	0.000	0.000	0	0	0
	ppm	Annual concentration	Federal	0.030	0.000	0.000	0.000	0	0	0
Coarse Particulate Matter (PM₁₀)^a										
El Cajon	µg/m ³	Maximum 24-hour concentration	State	50	40	44	42	0	0	0
			Federal	150	40	44	42	0	0	0
	µg/m ³	Annual concentration	State	20	22.1	22.0	21	0	0	0
Fine Particulate Matter (PM_{2.5})^a										
Camp Pendleton	µg/m ³	Maximum 24-hour concentration	Federal	35	20.7	17.7	26.5	ND	ND	0
	µg/m ³	Annual concentration	State	12	8.5	ND	7.9	ND	ND	ND
			Federal	9.0	8.5	ND	7.9	0	5.8	0

Sources: CARB 2022c; EPA 2022.

Notes: ppm = parts per million; – = not available or applicable; µg/m³ = micrograms per cubic meter; ND = insufficient data available to determine the value.

Data taken from CARB iADAM (<http://www.arb.ca.gov/adam>) and EPA AirData (<http://www.epa.gov/airdata/>) represent the highest concentrations experienced over a given year.

Exceedances of federal and state standards are only shown for O₃ and particulate matter. Daily exceedances for particulate matter are estimated days because PM₁₀ and PM_{2.5} are not monitored daily. All other criteria pollutants did not exceed federal or state standards during the years shown. There is no federal standard for 1-hour O₃, annual PM₁₀, or 24-hour SO₂, nor is there a state 24-hour standard for PM_{2.5}.

The Camp Pendleton monitoring station is located at 21441-W B Street, Oceanside, California.

The Escondido monitoring station is located at 600 East Valley Pkwy, Escondido, California.

The El Cajon monitoring station is located at 10537 Floyd Smith Drive, El Cajon, California.

^a Measurements of PM₁₀ and PM_{2.5} are usually collected every 6 days and every 1 to 3 days, respectively. Number of days exceeding the standards is a mathematical estimate of the number of days concentrations would have been greater than the level of the standard had each day been monitored. The numbers in parentheses are the measured number of samples that exceeded the standard.

SDAB Attainment Designation

Pursuant to the 1990 CAA Amendments, EPA classifies air basins (or portions thereof) as “attainment” or “nonattainment” for each criteria air pollutant, based on whether the NAAQS have been achieved. Generally, if the recorded concentrations of a pollutant are lower than the standard, the area is classified as “attainment” for that pollutant. If an area exceeds the standard, the area is classified as “nonattainment” for that pollutant. As previously discussed, these standards are set by EPA or CARB for the maximum level of a given air pollutant that can exist in the outdoor air without unacceptable effects on human health or the public welfare. If there is not enough data available to determine whether the standard is exceeded in an area, the area is designated as “unclassified” or “unclassifiable.”

The designation of “unclassifiable/attainment” means that the area meets the standard or is expected to be meet the standard despite a lack of monitoring data. Areas that achieve the standards after a nonattainment designation are redesignated as maintenance areas and must have approved maintenance plans to ensure continued attainment of the standards. The California Clean Air Act, like its federal counterpart, called for the designation of areas as “attainment” or “nonattainment,” but based on the CAAQS rather than the NAAQS.

Table 3 summarizes SDAB’s federal and state attainment designations for each of the criteria pollutants.

Table 3. SDAB Attainment Designation

Pollutant	Federal Designation	State Designation
O ₃ (8-hour)	Nonattainment	Nonattainment
O ₃ (1-hour)	Attainment ^a	Nonattainment
CO	Attainment	Attainment
PM ₁₀	Unclassifiable ^b	Nonattainment
PM _{2.5}	Attainment	Nonattainment ^c
NO ₂	Attainment	Attainment
SO ₂	Attainment	Attainment
Lead	Attainment	Attainment
Sulfates	(No federal standard)	Attainment
Hydrogen sulfide	(No federal standard)	Unclassified
Visibility-reducing particles	(No federal standard)	Unclassified
Vinyl chloride	(No federal standard)	No designation

Sources: SDAPCD 2022b

Definitions: attainment = meets the standards; nonattainment = does not meet the standards; unclassified or unclassifiable = insufficient data to classify

Notes: SDAB = San Diego; O₃ = ozone; CO = carbon monoxide; PM₁₀ = coarse particulate matter; PM_{2.5} = fine particulate matter; NO₂ = nitrogen dioxide; SO₂ = sulfur dioxide.

- ^a The federal 1-hour standard of 0.12 parts per million (ppm) was in effect from 1979 through June 15, 2005. The revoked standard is referenced here because it was employed for such a long period and because this benchmark is addressed in SIPs.
- ^b At the time of designation, if the available data does not support a designation of attainment or nonattainment, the area is designated as unclassifiable.
- ^c CARB has not reclassified the region to attainment yet due to (1) incomplete data, and (2) the use of non-California Approved Samplers (CAS). While data collected does meet the requirements for designation of attainment with federal PM_{2.5} standards, the data completeness requirements for state PM_{2.5} standards substantially exceed federal requirements and mandates, and have historically not been feasible for most air districts to adhere to given local resources. APCD has begun replacing most regional filter-based PM_{2.5} monitors as they reach the end of their useful life with continuous PM_{2.5} air monitors to ensure collected data meets stringent completeness requirements in the future. APCD anticipates these new monitors will be approved as "CAS" monitors once CARB review the list of approved monitors, which has not been updated since 2013.

2.2.2.2 Toxic Air Contaminants

The state Air Toxics Program was established in 1983 under AB 1807 (Tanner). The California TAC list identifies more than 200 pollutants, of which carcinogenic and noncarcinogenic toxicity criteria have been established for a subset of these pollutants pursuant to the California Health and Safety Code. In accordance with AB 2728, the state list includes the (federal) HAPs. The Air Toxics “Hot Spots” Information and Assessment Act of 1987 (AB 2588) seeks to identify and evaluate risk from air toxics sources; however, AB 2588 does not regulate air toxics emissions. TAC emissions from individual facilities are quantified and prioritized. “High-priority” facilities are required to perform a health risk assessment (HRA), and if specific thresholds are exceeded, are required to communicate the results to the public in the form of notices and public meetings.

In 2000, CARB approved a comprehensive Diesel Risk Reduction Plan to reduce diesel emissions from both new and existing diesel-fueled vehicles and engines. Additional regulations apply to new trucks and diesel fuel, including the On-Road Heavy Duty Diesel Vehicle (In-Use) Regulation, the On-Road Heavy Duty (New) Vehicle Program, the In-Use Off-Road Diesel Vehicle Regulation, and the New Off-Road Compression-Ignition (Diesel) Engines and Equipment program. All of these regulations and programs have timetables by which manufacturers must comply and existing operators must upgrade their diesel powered equipment. Several Airborne Toxic Control Measures that reduce diesel emissions including In-Use Off-Road Diesel-Fueled Fleets (13 CCR 2449 et seq.) and In-Use On-Road Diesel-Fueled Vehicles (13 CCR 2025).

California Health and Safety Code Section 41700

Section 41700 of the Health and Safety Code states that a person shall not discharge from any source whatsoever quantities of air contaminants or other material that cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or that endanger the comfort, repose, health, or safety of any of those persons or the public, or that cause, or have a natural tendency to cause, injury or damage to business or property. This section also applies to sources of objectionable odors.

2.2.3 Local

2.1.7.1 San Diego Air Pollution Control District

While CARB is responsible for the regulation of mobile emission sources within the state, local air quality management districts and air pollution control districts are responsible for enforcing standards and regulating stationary sources. The Project site is located within the SDAB and is subject to the guidelines and regulations of SDAPCD.

In San Diego County, O₃ and particulate matter are the pollutants of main concern, since exceedances of CAAQS for those pollutants are experienced here in most years. For this reason, the SDAB has been designated as a nonattainment area for the state PM₁₀, PM_{2.5}, and O₃ standards. The SDAB is also a federal O₃ attainment (maintenance) area for 1997 8-hour O₃ standard, a O₃ nonattainment area for the 2008 8-hour O₃ standard, and a CO maintenance area (western and central part of the SDAB only). The Project area is in the CO maintenance area.

2.1.7.2 Federal Attainment Plans

SDAPCD has prepared the 2020 Plan for Attaining the National Ambient Air Quality Standards for Ozone in San Diego County (2020 Attainment Plan) that demonstrates how the region will further reduce air pollutant emissions

to attain the current NAAQS for ozone. The 2020 Attainment Plan was approved by the SDAPCD on October 14, 2020. On November 19, 2020, CARB adopted the 2020 Attainment Plan for attaining the Federal 8-hour 75 ppb and 70 ppb Ozone standards and projects attainment for the standards by 2026 and 2032, respectively (SDAPCD 2020a). The 2020 Attainment Plan will be submitted to the EPA as a revision to the California State Implementation Plan (SIP) for attaining the ozone NAAQS.

In December 2016, the SDAPCD adopted an update to the Eight-Hour Ozone Attainment Plan for San Diego County (2008 O₃ NAAQS). The 2016 Final Eight-Hour Ozone Attainment Plan for San Diego County indicates that local controls and state programs would allow the region to reach attainment of the federal 8-hour O₃ standard (1997 O₃ NAAQS) by 2018 (SDAPCD 2016b). In this plan, SDAPCD relies on the Regional Air Quality Strategy (RAQS) to demonstrate how the region will comply with the federal O₃ standard. The RAQS details how the region will manage and reduce O₃ precursors (NO_x and VOCs) by identifying measures and regulations intended to reduce these pollutants. The control measures identified in the RAQS generally focus on stationary sources; however, the emissions inventories and projections in the RAQS address all potential sources, including those under the authority of CARB and EPA. Incentive programs for reduction of emissions from heavy-duty diesel vehicles, off-road equipment, and school buses are also established in the RAQS.

Currently, the County is designated as moderate nonattainment for the 2008 O₃ NAAQS and maintenance for the 1997 O₃ NAAQS. As documented in the 2016 Final Eight-Hour Ozone Attainment Plan for San Diego County, the County has a likely chance of obtaining attainment due to the transition to low emission cars, stricter new source review rules, and continuing the requirement of general conformity for military growth and the San Diego International Airport. SDAPCD will also continue emission control measures including ongoing implementation of existing regulations in ozone precursor reduction to stationary and area-wide sources, subsequent inspections of facilities and sources, and the adoption of laws requiring Best Available Retrofit Control Technology for control of emissions (SDAPCD 2016b).

2.1.7.3 State Attainment Plans

SDAPCD and the SANDAG are responsible for developing and implementing the clean air plan for attainment and maintenance of the ambient air quality standards in the SDAB. The RAQS for the SDAB was initially adopted in 1991 and is updated every 3 years. The RAQS outlines SDAPCD's plans and control measures designed to attain the CAAQS for O₃. The RAQS relies on information from CARB and SANDAG, including mobile and area source emissions, as well as information regarding projected growth in the County and the cities in the County, to forecast future emissions and then determine from that the strategies necessary for the reduction of emissions through regulatory controls. The CARB mobile source emission projections and SANDAG growth projections are based on population, vehicle trends, and land use plans developed by the County and the cities in the County as part of the development of their general plans (SANDAG 2020, 2021).

On March 9, 2023, SDAPCD adopted the 2022 Regional Air Quality Strategy (RAQS). The RAQS plan demonstrates how the San Diego region will further reduce air pollution emissions to meet state health-based standards for ground-level O₃. The 2022 RAQS guides the SDAPCD in deploying tools, strategies, and resources to continue reducing pollutants that are precursors to ground-level O₃, including NO_x and VOC. The 2022 RAQS emphasizes O₃ control measures but also identifies complementary measures and strategies that can reduce emissions of Greenhouse Gases (GHGs) and PM. It also includes new analyses exploring O₃ and its relationship to public health, mobile sources, under-resourced communities, and GHGs and climate change. Further, the 2022 RAQS identifies strategies to expand SDAPCD regional partnerships, identify more opportunities to engage the public and

communities of concern, and integrate environmental justice and equity across all proposed measures and strategies.

In regard to particulate matter emissions reduction efforts, in December 2005, SDAPCD prepared a report titled “Measures to Reduce Particulate Matter in San Diego County” to address implementation of Senate Bill 656 in San Diego County (Senate Bill 656 required additional controls to reduce ambient concentrations of PM10 and PM2.5) (SDAPCD 2005). In the report, SDAPCD evaluated the implementation of source-control measures that would reduce particulate matter emissions associated with residential wood combustion; various construction activities including earthmoving, demolition, and grading; bulk material storage and handling; carryout and trackout removal and cleanup methods; inactive disturbed land; disturbed open areas; unpaved parking lots/staging areas; unpaved roads; and windblown dust (SDAPCD 2005).

2.1.7.4 SDAPCD Rules and Regulations

As stated previously, SDAPCD is responsible for planning, implementing, and enforcing federal and state ambient standards in the SDAB. The following rules and regulations apply to all sources in the jurisdiction of SDAPCD:

- **SDAPCD Regulation IV: Prohibitions; Rule 50: Visible Emissions.** Prohibits any activity causing air contaminant emissions darker than 20% opacity for more than an aggregate of 3 minutes in any consecutive 60-minute time period. In addition, Rule 50 prohibits any diesel pile-driving hammer activity causing air contaminant emissions for a period or periods aggregating more than 4 minutes during the driving of a single pile (SDAPCD 1997).
- **SDAPCD Regulation IV: Prohibitions; Rule 51: Nuisance.** Prohibits the discharge, from any source, of such quantities of air contaminants or other materials that cause or have a tendency to cause injury, detriment, nuisance, annoyance to people and/or the public, or damage to any business or property (SDAPCD 1976).
- **SDAPCD Regulation IV: Prohibitions; Rule 55: Fugitive Dust.** Regulates fugitive dust emissions from any commercial construction or demolition activity capable of generating fugitive dust emissions, including active operations, open storage piles, and inactive disturbed areas, as well as track-out and carry-out onto paved roads beyond a project site (SDAPCD 2009b).
- **SDAPCD Regulation IV: Prohibitions; Rule 67.0.1: Architectural Coatings.** Requires manufacturers, distributors, and end users of architectural and industrial maintenance coatings to reduce VOC emissions from the use of these coatings, primarily by placing limits on the VOC content of various coating categories (SDAPCD 2015).

2.3 Significance Criteria and Methodology

2.3.1 Thresholds of Significance

The State of California has developed guidelines to address the significance of air quality impacts based on Appendix G of the CEQA Guidelines (14 CCR 15000 et seq.), which provides guidance that a project would have a significant environmental impact if it would:

1. Conflict with or obstruct implementation of the applicable air quality plan.

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

Appendix G of the CEQA Guidelines (14 CCR 15000 et seq.) indicates that, where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to determine whether a project would have a significant impact on air quality.

Appendix G of the CEQA Guidelines (14 CCR 15000 et seq.) indicates that, where available, the significance criteria established by the applicable air quality management district or pollution control district may be relied upon to determine whether the project would have a significant impact on air quality. As discussed earlier, the SDAPCD has not developed thresholds of significance for air quality and health risk, however, the SDAPCD has provided emission levels under its permitting authority for new source review for which an AQIA is triggered. The County of San Diego has reviewed SDAPCD’s trigger levels, as well as EPA rulemaking, and CEQA thresholds adopted by the SCAQMD to develop SLTs to assist lead agencies in determining the significance of project-level air quality impacts within the County. The City of Encinitas has chosen to apply the County of San Diego SLT’s for determining mass daily criteria air pollutant thresholds of significance. Project related air quality impacts estimated in this environmental analysis would be considered significant if any of the applicable significance thresholds in Table 4 are exceeded.

For CEQA purposes, these screening criteria can be used as numeric methods to demonstrate that the Project’s total emissions would or would not result in a significant impact to air quality.

Table 4. Air Quality Significance Thresholds

Construction Emissions			
Pollutant	Total Emissions (Pounds per Day)		
Coarse particulate matter (PM ₁₀)	100		
Fine particulate matter (PM _{2.5})	55		
Oxides of nitrogen (NO _x)	250		
Sulfur oxides (SO _x)	250		
Carbon monoxide (CO)	550		
Volatile organic compounds (VOCs)	75 ^a		
Operational Emissions			
Pollutant	Total Emissions		
	Pounds per Hour	Pounds per Day	Tons per Year
Coarse particulate matter (PM ₁₀)	–	100	15
Fine particulate matter (PM _{2.5})	–	55	10
Oxides of nitrogen (NO _x)	25	250	40
Sulfur oxides (SO _x)	25	250	40
Carbon monoxide (CO)	100	550	100
Lead and lead compounds	–	3.2	0.6
Volatile organic compounds (VOCs)	–	75*	13.7

Source: SDAPCD 2016a.

Notes: SDAPCD = San Diego Air Pollution Control District.

^a VOC threshold based on the threshold of significance for VOCs from the South Coast Air Quality Management District (SCAQMD) for the Coachella Valley as stated in the San Diego County Guidelines for Determining Significance.

The thresholds listed in Table 4 represent screening-level thresholds that can be used to evaluate whether Project-related emissions would cause a significant impact on air quality. Emissions below the screening-level thresholds would not cause a significant impact. In the event that emissions exceed these thresholds, modeling would be required to demonstrate that the Project's total air quality impacts result in ground-level concentrations that are below the CAAQS and NAAQS, including appropriate background levels. For non-attainment pollutants, if emissions exceed the thresholds shown in Table 4, the Project could have the potential to result in a cumulatively considerable net increase in these pollutants and thus could have a significant impact on the ambient air quality.

SDAPCD Rule 51 (Public Nuisance) prohibits emission of any material that causes nuisance to a considerable number of persons or endangers the comfort, health, or safety of any person (SDAPCD 1976). A project that proposes a use that would produce objectionable odors would be deemed to have a significant odor impact if it would affect a considerable number of off-site receptors.

2.3.2 Approach and Methodology

2.3.2.1 Construction Mass Emissions

Emissions from the construction phase of Project components were estimated using the California Emissions Estimator Model (CalEEMod) Version 2022.1³. The Applicant provided an anticipated construction schedule. The equipment mix assumptions were also based on CalEEMod default assumptions based on the anticipated number of dwelling units per phase and is meant to represent a reasonably conservative estimate of construction activity. For the analysis, it is generally assumed that heavy construction equipment would be operating at the site for a maximum of 8 hours per day, 5 days per week. Default assumptions provided in CalEEMod were used to determine worker trips and vendor truck trips for each potential construction phase. The default CalEEMod trip distance for construction vehicles was assumed, which was a one-way distance of 11.97 miles for worker trips, 7.63 miles for vendor truck trips, and 20 miles for haul truck trips.

It was assumed that construction of the Project would begin in August 2025. The Project would have four home building phases and single phases for demolition, site preparation, grading, and paving and would last approximately 15 months. Additionally, because the building construction phase would extend for a longer period than the default building construction phase for homes, the daily equipment hours for the building construction phase were adjusted to conserve the total hours of equipment use by default estimates. The construction schedule used in the analysis represents a "worst-case" analysis scenario since emission factors for construction equipment decrease as the analysis year increases due to improvements in technology and more stringent regulatory requirements. The following represents the construction phasing assumed for the Project:

- Demolition: August 2025 (2 days)
- Site Preparation: August 2025 (4 days)

³ CalEEMod is a statewide land use emissions computer model designed to provide a uniform platform to calculate construction and operational emissions from land use development projects. The model was developed for the California Air Pollution Control Officers Association in collaboration with multiple air districts across the state. Numerous lead agencies in the state, including SDAPCD, use CalEEMod to estimate GHG emissions in accordance with CEQA Guidelines Section 15064.4(a)(1).

- Grading: August 2025 (45 days)
- Utilities: August 2025 (30 days)
- Paving: October 2025 (20 days)
- Building Construction Phase 1 – 6 homes: February 2026 (175 days)
- Building Construction Phase 2 – 7 homes: April 2026 (198 days)
- Building Construction Phase 3 – 7 homes: June 2026 (196 days)
- Building Construction Phase 4 – 7 homes: August 2026 (196 days)
- Architectural Coating – Phase 1 Homes: October 2026 (5 days)
- Architectural Coating – Phase 2 Homes: January 2027 (10 days)
- Architectural Coating – Phase 3 Homes: March 2027 (10 days)
- Architectural Coating – Phase 4 Homes: May 2027 (10 days)

Table 5 provides the construction equipment mix and vehicle trips assumed for estimating Project-generated construction emissions.

Table 5. Construction Scenario Assumptions

Construction Phase	Average Daily Vehicle Trips			Equipment			
	Worker Trips	Vendor Truck Trips	Truck Trips	Equipment Type	Quantity	HP	Hours per Day
Demolition	16	2	6	Concrete/Industrial Saws	1	33	8
				Excavators	3	36	8
				Rubber Tired Dozers	2	367	8
Site Preparation	18	2	2	Rubber Tired Dozers	3	367	8
				Tractors/Loaders/Backhoes	4	84	8
Grading	16	2	36	Excavators	1	36	8
				Graders	1	148	8
				Rubber Tired Dozers	1	367	8
				Tractors/Loaders/Backhoes	3	84	8
Utilities	8	2	0	Excavators	1	36	8
				Plate Compactors	1	8	8
				Tractors/Loaders/Backhoes	1	84	8
Paving	20	6	0	Pavers	1	81	8
				Paving Equipment	2	89	6
				Rollers	2	36	6
				Cement and Mortar Mixers	2	10	6
				Tractors/Loaders/Backhoes	1	84	8
Building Construction – Phase 1 Homes	10	6	0	Cranes	1	367	2.10
				Forklifts	1	82	2.41
				Generator Sets	1	14	2.41
				Tractors/Loaders/Backhoes	1	84	2.10

Table 5. Construction Scenario Assumptions

Construction Phase	Average Daily Vehicle Trips			Equipment			
	Worker Trips	Vendor Truck Trips	Truck Trips	Equipment Type	Quantity	HP	Hours per Day
Building Construction - Phase 2 Homes	10	6	0	Welders	1	46	2.41
				Cranes	1	367	2.10
				Forklifts	1	82	2.41
				Generator Sets	1	14	2.41
				Tractors/Loaders/Backhoes	1	84	2.10
Building Construction - Phase 3 Homes	10	6	0	Welders	1	46	2.41
				Cranes	1	367	2.10
				Forklifts	1	82	2.41
				Generator Sets	1	14	2.41
				Tractors/Loaders/Backhoes	1	84	2.10
Building Construction - Phase 4 Homes	10	6	0	Welders	1	46	2.41
				Cranes	1	367	2.10
				Forklifts	1	82	2.41
				Generator Sets	1	14	2.41
				Tractors/Loaders/Backhoes	1	84	2.10
Architectural Coating - Phase 1 Homes	8	2	0	Air Compressors	1	37	6
Architectural Coating - Phase 2 Homes	8	2	0	Air Compressors	1	37	6
Architectural Coating - Phase 3 Homes	8	2	0	Air Compressors	1	37	6
Architectural Coating - Phase 4 Homes	8	2	0	Air Compressors	1	37	6

Note: See Appendix A for additional details.

Implementation of the Project would generate criteria air pollutant emissions from entrained dust, off-road equipment, vehicle emissions, architectural coatings, and asphalt pavement application. Based on project specific information, approximately 12,950 cubic yards of fill will be imported. The soil import estimate is two times the geometric quantity of import to account for potential changes in the field and represents a conservative estimate for disclosure purposes because it does not account for localized soil characteristics such as bulk, shrinkage, and

spoils, which would serve to reduce the quantity of soils estimated. Entrained dust results from the exposure of earth surfaces to wind from the direct disturbance and movement of soil, resulting in PM₁₀ and PM_{2.5} emissions. Construction of Project components would be subject to SDAPCD Rule 55 – Fugitive Dust Control. Compliance with Rule 55 would limit fugitive dust (PM₁₀ and PM_{2.5}) that may be generated during grading and construction activities. Standard construction practices that would be employed to reduce fugitive dust emissions include watering of the active sites two times per day, depending on weather conditions as indicated by PDF-AQ-1.

Internal combustion engines used by construction equipment, vendor trucks (i.e., delivery trucks), haul trucks, and worker vehicles would result in emissions of VOCs, NO_x, CO, PM₁₀, and PM_{2.5}. The application of architectural coatings, such as exterior application/interior paint and other finishes, and application of asphalt pavement would also produce VOC emissions; however, the contractor is required to procure architectural coatings from a supplier in compliance with the requirements of SDAPCD Rule 67.0.1 for Architectural Coatings. For additional details see Appendix A, *Air Quality and Greenhouse Gas Emissions CalEEMod Output Files*.

2.3.2.2 Construction Health Risk Analysis

An HRA was performed to assess the impact of construction on sensitive receptors proximate to the Project site. This report includes an HRA associated with emissions from construction of the Project based on the methodologies prescribed in the Office of Environmental Health Hazard Assessment (OEHHA) document, *Air Toxics Hot Spots Program Risk Assessment Guidelines – Guidance Manual for Preparation of Health Risk Assessments (OEHHA Guidelines) (OEHHA 2015)*. To implement the OEHHA Guidelines based on proposed project information, the SDAPCD has developed a three-tiered approach where each successive tier is progressively more refined, with fewer conservative assumptions. The SDAPCD document, *Supplemental Guidelines for Submission of Air Toxics “Hot Spots” Program Health Risk Assessments (SDAPCD 2022)*, provides guidance with which to perform HRAs within the SDAB.

Health effects from carcinogenic air toxics are usually described in terms of cancer risk. The SDAPCD recommends a carcinogenic (cancer) risk threshold of 10 in one million. Additionally, some TACs increase non-cancer health risk due to long-term (chronic) exposures. The Chronic Hazard Index is the sum of the individual substance chronic hazard indices for all TACs affecting the same target organ system. The SDAPCD recommends a Chronic Hazard Index significance threshold of one (project increment). The exhaust from diesel engines is a complex mixture of gases, vapors, and particles, many of which are known human carcinogens. DPM has established cancer risk factors and relative exposure values for long-term chronic health hazard impacts. No short-term, acute relative exposure level has been established for DPM; therefore, acute impacts of DPM are not addressed in this assessment.

The HRA for the Project evaluated the risk to existing off-site residents from diesel emissions from exhaust from on-site construction equipment and diesel haul and vendor trucks.

The dispersion modeling of DPM was performed using the American Meteorological Society/EPA Regulatory Model (AERMOD), which is the model SDAPCD requires for atmospheric dispersion of emissions. AERMOD is a steady-state Gaussian plume model that incorporates air dispersion based on planetary boundary layer turbulence structure and scaling concepts, including treatment of surface and elevated sources, building downwash, and simple and complex terrain (EPA 2021). For the Project, AERMOD was run with all sources emitting unit emissions (one gram per second) to obtain the “X/Q” values. X/Q is a dispersion factor that is the average effluent concentration normalized by source strength and is used as a way to simplify the representation of emissions from many sources. The X/Q values of ground-level concentrations were determined for construction emissions using

AERMOD and the maximum concentrations determined for the one-hour and period-averaging periods. Principal parameters of this modeling are presented in Table 6.

Table 6. AERMOD Principal Parameters

Parameter	Details
Meteorological Data	The latest three-year meteorological data (2019-2021) for the McClellan-Palomar Airport Station were obtained from SDAPCD as the recommended meteorological station and input to AERMOD.
Urban versus Rural Option	Urban areas typically have more surface roughness, as well as structures and low-albedo surfaces that absorb more sunlight—and thus more heat—relative to rural areas. Per the SDAPCD guidelines, the land use procedure from 4.4.1 of the OEHHA Guidance Manual indicated that urban dispersion was appropriate for the project site.
Terrain Characteristics	The elevation of the modeled site is 92 meters above sea level. Digital elevation model files were imported into AERMOD so that complex terrain features were evaluated as appropriate.
Elevation Data	Digital elevation data were imported into AERMOD, and elevations were assigned to the emission sources and receptors. Digital elevation data were obtained through AERMOD View in the U.S. Geological Survey’s National Elevation Dataset format with a 30-meter resolution.
Emission Sources and Release Parameters	Air dispersion modeling of DPM from construction equipment was conducted using emissions estimated using CalEEMod, assuming emissions would occur eight hours per day, five days per week. The emissions also accounted for on-site vendor and hauling trips, 1,320 feet (0.25 mile of travel) (SJVAPCD 2018). The Project area was modeled as a series of adjacent line-volume sources. The line of adjacent volume sources was assumed to have a release height of 5 meters, a plume height of 10 meters, and a plume width of 10 meters (SCAQMD 2008).
Receptors	The HRA evaluates the risk to existing off-site sensitive receptors located in proximity to the Project Site. For the off-site receptors, individual discrete receptors were placed at the nearest residences, nearest schools, and 6 additional uniform fine cartesian grids of less than 50 meter spacing were distributed surrounding the Project site to capture the maximum point of impact.

Notes: AERMOD = American Meteorological Society/EPA Regulatory Model; SDAPCD = San Diego Air Pollution Control District; DPM = diesel particulate matter; CalEEMod = California Emissions Estimator Model. See Appendix B for additional information.

Dispersion model plot files from AERMOD were then imported into CARB’s Hotspots Analysis and Reporting Program Version 2 (Version 222118) to determine health risk, which requires peak one-hour emission rates and annual emission rates for all pollutants for each modeling source. For the offsite residential health risk, the HRA assumes exposure would start in the third trimester of pregnancy for a duration of 15 months. A construction HRA CalEEMod run was performed to estimate on-site emissions of exhaust PM₁₀, which was used as a surrogate for DPM.⁴ The predominant source of construction exhaust PM₁₀ is operation of off-road diesel construction equipment. However, it was conservatively assumed that emissions from heavy-duty haul and vendor trucks, which could be diesel- or gasoline-fueled, traveling 0.25 miles would occur on site to represent potential on-site travel and nearby local off-site travel. Total unmitigated exhaust PM₁₀ emissions from CalEEMod were averaged over the Project’s construction

⁴ Under California regulatory guidelines, DPM is used as a surrogate measure of carcinogen exposure for the mixture of chemicals that make up diesel exhaust as a whole. The California Environmental Protection Agency has concluded that “potential cancer risk from inhalation exposure to whole diesel exhaust will outweigh the multi-pathway cancer risk from the speciated components” (OEHHA 2003).

duration to estimate the annual and hourly exposure, which were estimated to be 76.82 pounds per year and 0.04 pounds per hour of DPM.

2.3.2.3 Operation

Operation of the proposed Project would generate VOC, NO_x, CO, SO_x, PM₁₀, and PM_{2.5} emissions from area sources, energy sources and mobile sources, which are discussed below. Emissions from these sources were estimated based on CalEEMod default assumptions for operations of the Project land uses. The Project would be fully operation in 2027 following the completion of construction.

Area

The area source category calculates direct sources of air pollutant emissions located at the Project site, including consumer product use, architectural coatings, and landscape maintenance equipment. CalEEMod defaults were used to estimate emissions from area sources during operation of the Project. Other potential area sources include fireplaces and wood stoves, however PDF-AQ-4 requires the use of all-electric fireplaces.

Consumer products are various solvents used in non-industrial applications which emit VOCs during their product use. These typically include cleaning supplies, kitchen aerosols, cosmetics and toiletries. Consumer product VOC emissions are estimated in CalEEMod based on the floor area of residential and nonresidential buildings and on the default factor of pounds of VOC per building square foot per day. For parking lot land uses, CalEEMod estimates VOC emissions associated with use of parking surface degreasers based on a square footage of parking surface area and pounds of VOC per square foot per day. The CalEEMod default utilization rates and emission factors were assumed.

This VOC emissions associated with the reapplication rate and coating for each building surface type and parking surface was also estimated using CalEEMod. The reapplication rate is the percentage of the total surface area that is repainted each year. A default of 10% is used, meaning that 10% of the surface area is repainted each year (i.e., all surface areas are repainted once every 10 years). Daily emissions divide the annual rate by 365 days per year. It was assumed that the Project would comply with SDAPCD Rule 67.0.1 for Architectural Coatings.

Landscape maintenance includes fuel combustion emissions from equipment such as lawn mowers, rototillers, shredders/grinders, blowers, trimmers, chainsaws, and hedge trimmers, as well as air compressors, generators, and pumps. The emissions associated from landscape equipment use were estimated using CalEEMod. The emission factors are multiplied by the number of summer days that represent the number of operational days.

Energy

As represented in CalEEMod, energy sources include emissions associated with natural gas usage. Electricity use would contribute indirectly to criteria air pollutant emissions; however, the emissions from electricity use are only quantified for GHGs in CalEEMod, since criteria pollutant emissions occur at the site of the power plant, which is typically off site. CalEEMod default values for energy consumption for each land use were applied for the Project analysis. The energy use from residential land uses is calculated in CalEEMod based on the Residential Appliance Saturation Survey. The Project includes PDF-AQ-5 that requires an all-electric development, and the Project would comply with the City's Climate Action Plan to install a minimum of 1.5 watts of solar per square feet of residential building or a solar system with a minimum of 2 kilowatt (kW) per dwelling unit.

Mobile Sources (Motor Vehicles)

Following the completion of construction activities, the Project would generate VOC, NO_x, CO, SO_x, PM₁₀, and PM_{2.5} emissions from mobile sources (vehicular traffic) as a result of the 27 additional residential units. The CalEEMod Version 2022.1.1.13 was used to estimate daily emissions from proposed vehicular sources in combination with trip rates provided by the Local Transportation Analysis prepared by LOS Engineering, Inc. (10 trips per dwelling unit per day). CalEEMod default data, including trip characteristics, variable start information, emissions factors, and trip distances, were used for the model inputs. Emission factors representing the vehicle mix and emissions for 2027 were used to estimate emissions associated with vehicular sources. For additional details see Appendix A, *Air Quality and Greenhouse Gas Emissions CalEEMod Output Files*.

2.4 Impact Analysis

2.4.1 Would the Project conflict with or obstruct implementation of the applicable air quality plan?

2.4.1.1 Analysis

As stated in Section 2.2.3, Local, SDAPCD and SANDAG are responsible for developing and implementing the clean air plans for attainment and maintenance of the NAAQS and CAAQS in the SDAB; specifically, the SIP and RAQS.⁵ The federal O₃ maintenance plan, which is part of the SIP, was last updated in 2020. The SIP includes a demonstration that current strategies and tactics will maintain acceptable air quality in the SDAB based on the NAAQS. The RAQS was initially adopted in 1991 and is updated every 3 years (most recently in 2022). The RAQS outlines SDAPCD's plans and control measures designed to attain the CAAQS for O₃. The SIP and RAQS rely on information from CARB and SANDAG, including mobile and area source emissions, as well as information regarding projected growth in San Diego County and the cities in the County, to project future emissions and then determine from that the strategies necessary for the reduction of emissions through regulatory controls. CARB mobile source emission projections and SANDAG growth projections are based on population, vehicle trends, and land use plans developed by San Diego County and the cities in the County as part of the development of their general plans. The Draft 2022 RAQS was released in November 2022 and continues to build upon previous progress to reduce ground-level ozone, but also complements regional actions addressing greenhouse gases and climate change.

If a project proposes development that is greater than that anticipated in the local plan and SANDAG's growth projections, the project might conflict with the SIP and RAQS and may contribute to a potentially significant cumulative impact on air quality.

The City of Encinitas General Plan identifies most of the site as Residential 2.01-3.00 dwelling units per acre (R3). A portion of the site is classified Rural Residential 1.01-2.00 dwelling units per acre (RR2). Under the Encinitas Municipal Code, the Project site is zoned R3 with a maximum density of 3 dwelling units per acre and RR2 with a maximum density of 2 dwelling units per acre. Pursuant to Density Bonus Law, specifically Government Code section 65915(f)(2), the Project proposes to reserve 17% of base units for sale to very low-income households whose incomes do not exceed 50% of the area median income for a 50% density bonus for a total yield of 24 market rate

⁵ For the purpose of this discussion, the relevant federal air quality plan is the O₃ maintenance plan (SDAPCD 2016b). The RAQS is the applicable plan for purposes of state air quality planning. Both plans reflect growth projections in the SDAB.

and 3 very low-income units. Based on the Density Bonus Law, the Project would be consistent with the existing land use designation and zoning.

SANDAG produces a Regional Growth Forecast, which is important for developing regional plans and strategies mandated by federal and state governments such as the Regional Transportation Plan (RTP)/Sustainable Communities Strategy (SCS), the Program Environmental Impact Report (EIR) for the RTP/SCS, the Air Quality Management Plan, the Federal Transportation Improvement Program, and the Regional Housing Needs Assessment (RHNA). The most recent RTP/SCS was adopted in December 2021 with a planning horizon of 2016 through 2050. The growth forecasts are appended to the RTP/SCS. Appendix F of the 2021 Regional Plan describes the trends in population, housing, and employment. The San Diego region is expected to grow by nearly 437,000 people and the growth in population will add about 440,000 jobs and more than 280,000 housing units (SANDAG 2021).

The forecast process includes two main phases. The first phase of the forecast is produced using California Department of Finance (DOF) population projections and rates developed by SANDAG based on historic economic and demographic trends. The size and makeup of the working age population in the region and high labor force participation is used to project future job growth. The projected higher values in working age population, coupled with older residents staying in the labor force longer results in more jobs in the region by the end of the forecast period. Housing units and households in the region were forecasted based on rates developed from historical data as well as assumptions of housing unit development and household formation in the future. The second phase of the forecast allocates the forecasted growth down to the jurisdictions and smaller geographical areas. The subregional forecast distributes growth based on a variety of factors, including available capacity for housing and accessibility to jobs and transportation. SANDAG works with the region’s 18 cities, the County of San Diego, and other agencies that manage land use to understand local land use plans, such as general plans, community plans, and specific plans, as well as constraints to development and already permitted projects to develop the subregional projections for housing and employment. Table 7 shows the population, housing units, and employment projections for the City and the San Diego region for the 2021 Regional Plan.

Table 7. Population, Housing, and Employment

Year	City of Encinitas			San Diego Region		
	Population	Housing Units	Employment	Population	Housing Units	Employment
2016	62,625	26,040	28,812	3,309,510	1,190,555	1,646,419
2025	63,476	26,750	29,264	3,470,848	1,288,216	1,761,747
2035	64,157	27,690	29,950	3,620,348	1,409,866	1,921,475
2050	64,591	27,690	30,753	3,746,073	1,471,299	2,086,318
Change in Number (2016-2050)	1,966 (3.1%)	1,650 (6.3%)	1,941 (6.7%)	436,563 (14.2%)	280,744 (23.6%)	439,899 (26.7%)

Source: SANDAG Regional Plan 2021, Appendix F: Regional Growth Forecast and Sustainable Communities Strategy Land Use Pattern

The Project would add 27 residential units with an estimated population of 75 residents. The added residents would represent approximately 4% of the anticipated population growth and 1.6 % of the housing growth in the City of Encinitas over the RTP/SCS planning horizon. Based on the above information, the increase in population and housing units would be well within the growth projections. Therefore, the Project would not conflict with SANDAG’s regional growth forecast for the City.

2.4.1.2 Conclusion

The increase in the housing units and associated vehicle source emissions is not anticipated to result in air quality impacts that were not envisioned in the growth projections and RAQS, and the increase in residential units in the region would not obstruct or impede implementation of local air quality plans. Based on the analysis above, implementation of the Project would not result in development in excess of that anticipated in local plans or increases in population/housing growth beyond those contemplated by SANDAG. As such, vehicle trip generation and planned development for the Project are anticipated in the SIP and RAQS. Because the proposed land uses and associated vehicle trips are anticipated in local air quality plans, the Project would be consistent at a regional level with the underlying growth forecasts in the RAQS. Impacts would be **less than significant**.

2.4.2 Would the Project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?

Air pollution is largely a cumulative impact. The nonattainment status of regional pollutants is a result of past and present development, and SDAPCD develops and implements plans for future attainment of the NAAQS and CAAQS. Based on these considerations, project-level thresholds of significance for criteria pollutants are relevant in the determination of whether the Project's individual emissions would have a cumulatively significant impact on air quality.

2.4.2.1 Construction

Construction of the proposed Project would result in the temporary addition of pollutants to the local airshed caused by on-site sources (i.e., off-road construction equipment, soil disturbance, and VOC off-gassing) and off-site sources (vendor and haul truck trips, and worker vehicle trips). Construction emissions can vary substantially day to day, depending on the level of activity, the specific type of operation, and for dust, the prevailing weather conditions.

Criteria air pollutant emissions associated with construction activities were quantified using CalEEMod. Default values provided by the program were used where detailed Project information was not available. A detailed depiction of the construction schedule—including information regarding phasing, equipment used during each phase, haul trucks, vendor trucks, and worker vehicles—is included in Section 2.3.2. above.

Development of the Project would generate air pollutant emissions from entrained dust, off-road equipment, vehicle emissions, asphalt pavement application, and architectural coatings. As described previously, fugitive dust would be limited through compliance with SDAPCD Rule 55, which requires the restriction of visible emissions of fugitive dust beyond the property line. This measure is incorporated into the Project as PDF-AQ-1.

Table 8 shows the estimated maximum unmitigated daily construction emissions associated with the construction phases of the Project. Complete details of the emissions calculations are provided in Appendix A, *Air Quality and Greenhouse Gas Emissions CalEEMod Output Files*.

Table 8. Estimated Maximum Daily Construction Criteria Air Pollutant Emissions

Construction Year	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
	Pounds per Day					
Summer						
2025	3.39	31.95	31.11	0.05	21.23	11.41
2026	0.95	7.96	10.54	0.02	1.09	0.46
2027	6.10	1.90	2.60	<0.01	0.29	0.11
Winter						
2025	2.13	22.19	23.37	0.05	8.91	4.47
2026	5.33	8.01	10.34	0.02	1.09	0.46
2027	6.52	5.73	7.66	0.02	0.88	0.34
Maximum	6.52	31.95	31.11	0.05	21.23	11.41
<i>County threshold</i>	75	250	550	250	100	55
Threshold exceeded?	No	No	No	No	No	No

Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM₁₀ = coarse particulate matter; PM_{2.5} = fine particulate matter; See Appendix A for complete results.

The values shown are the maximum summer or winter daily emissions results from CalEEMod and include fugitive dust mitigation pursuant to PDF AQ-1.)

As shown in Table 8, daily construction emissions for the Project would not exceed the County of San Diego’s significance thresholds. Therefore, the Project would have a **less than significant impact** related to emissions of criteria air pollutant emissions during construction.

2.4.2.2 Operations

Operation of the proposed Project would generate VOC, NO_x, CO, SO_x, PM₁₀, and PM_{2.5} emissions from mobile sources (vehicle trips), area sources (consumer products, landscape maintenance equipment), and energy sources. Criteria air pollutant emissions associated with long-term operations were quantified using CalEEMod. Project-generated mobile source emissions were estimated in CalEEMod based on project-specific trip rates. CalEEMod default values were used to estimate emissions from the Project area and energy sources.

Table 9 presents the unmitigated maximum daily emissions associated with the operation of the Project in 2027 after all phases of construction have been completed. Complete details of the emissions calculations are provided in Appendix A, *Air Quality and Greenhouse Gas Emissions CalEEMod Output Files*. Emissions represent maximum of summer and winter. “Summer” emissions are representative of the conditions that may occur during the O₃ season (May 1 to October 31), and “winter” emissions are representative of the conditions that may occur during the balance of the year (November 1 to April 30).

Table 9. Estimated Maximum Daily Operational Criteria Air Pollutant Emissions

Source	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
	Pounds per Day					
Summer						
Mobile	1.04	0.71	7.59	0.02	1.67	0.43
Area	1.97	0.00	0.00	0.00	0.00	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00
Total	3.02	0.71	7.59	0.02	1.67	0.43
<i>County threshold</i>	75	250	550	250	100	55
Threshold exceeded?	No	No	No	No	No	No
Winter						
Mobile	1.02	0.78	7.15	0.02	1.67	0.43
Area	1.97	0.00	0.00	0.00	0.00	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00
Total	3.00	0.78	7.15	0.02	1.67	0.43
<i>County threshold</i>	75	250	550	250	100	55
Threshold exceeded?	No	No	No	No	No	No

Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM₁₀ = coarse particulate matter; PM_{2.5} = fine particulate matter; <0.01 = reported value is less than 0.01. See Appendix A for complete results.

As shown in Table 9, daily operational emissions for the Project would not exceed County of San Diego’s significance thresholds for any criteria air pollutant. Therefore, the Project would result in a **less than significant impact** related to emissions of criteria air pollutant emissions during operation.

2.4.2.3 Conclusion

In analyzing cumulative impacts from a project, the analysis must specifically evaluate the project’s contribution to the cumulative increase in pollutants for which the SDAB is designated as nonattainment for the CAAQS and NAAQS. If the project does not exceed thresholds and is determined to have less than significant project-specific impacts, it may still contribute to a significant cumulative impact on air quality if the emissions from the project components, in combination with the emissions from other proposed or reasonably foreseeable future projects, are in excess of established thresholds. However, the project would only be considered to have a significant cumulative impact if its contribution accounts for a significant proportion of the cumulative total emissions (i.e., it represents a “cumulatively considerable contribution” to the cumulative air quality impact).

Additionally, for the SDAB, the RAQS serves as the long-term regional air quality planning document for the purpose of assessing cumulative operational emissions within the basin to ensure the SDAB continues to make progress toward NAAQS and CAAQS attainment status. As such, cumulative projects located in the San Diego region would have the potential to result in a cumulative impact to air quality if, in combination, they would conflict with or obstruct implementation of the RAQS. Similarly, individual projects that are inconsistent with the regional planning documents on which the RAQS is based would have the potential to result in cumulative impacts if they represent development beyond regional projections.

The SDAB has been designated as a federal nonattainment area for O₃ and a state nonattainment area for O₃, PM₁₀, and PM_{2.5}. PM₁₀ and PM_{2.5} emissions associated with construction generally result in near-field impacts. The nonattainment status is the result of cumulative emissions from all sources of these air pollutants and their precursors within the SDAB. As shown in Tables 8, the emissions of all criteria pollutants from the Project's construction would be below the significance levels. Construction would be short term, temporary in nature, and activities would be considered typical of a residential project. Once construction is completed, construction-related emissions would cease. As shown in Table 9, operational emissions generated by the Project would not result in emissions that exceed significance thresholds for any criteria air pollutant. As such, the Project would result in less than significant impacts to air quality.

Regarding long-term cumulative operational emissions in relation to consistency with local air quality plans, the SIP and RAQS serve as the primary air quality planning documents for the state and SDAB, respectively. The SIP and RAQS rely on SANDAG growth projections based on population, vehicle trends, and land use plans developed by the cities and by the County as part of the development of their general plans. Therefore, projects that propose development that is consistent with the growth anticipated by local plans would be consistent with the SIP and RAQS and would not be considered to result in cumulatively considerable impacts from operational emissions. As discussed in Section 2.4.1 of this report, the Project is consistent with the SANDAG growth projections. Thus, it would be consistent at a regional level with the underlying growth forecasts in the SIP and RAQS.

As a result, the Project would not result in a cumulatively considerable contribution to regional O₃ concentrations or other criteria pollutant emissions. Cumulative impacts for construction and operation would be **less than significant** for the Project.

2.4.3 Would the Project expose sensitive receptors to substantial pollutant concentrations?

2.4.3.1 Carbon Monoxide Hotspots

Mobile-source impacts occur on two basic scales of motion. Regionally, Project-related travel will add to regional trip generation and increase the vehicle miles traveled within the local airshed and the SDAB. Locally, Project traffic will be added to the City's roadway system. If such traffic occurs during periods of poor atmospheric ventilation, consists of a large number of vehicles "cold-started" and operating at pollution-inefficient speeds, and operates on roadways already crowded with non-Project traffic, there is a potential for the formation of microscale CO "hotspots" in the area immediately around points of congested traffic. Because of continued improvement in mobile emissions at a rate faster than the rate of vehicle growth and/or congestion, the potential for CO hotspots in the basin is steadily decreasing.

Projects contributing to adverse traffic impacts may result in the formation of CO hotspots. To verify that the Project would not cause or contribute to a violation of the CO standard, a screening evaluation of the potential for CO hotspots was conducted. The City does not have guidance regarding CO hotspots; as such, the County's CO hotspot screening guidance (County of San Diego 2007) was followed to determine whether the Project would require a site-specific hotspot analysis. Per guidance, any project that would place receptors within 500 feet of a signalized intersection operating at or below LOS E (peak-hour trips exceeding 3,000 trips) must conduct a "hotspot" analysis for CO. Likewise, projects that will cause road intersections to operate at or below a level of service (LOS) E (i.e., with intersection peak-hour trips exceeding 3,000) will also have to conduct a CO "hotspot" analysis. There are no

signalized intersections within 500 feet of the project site. The Local Transportation Analysis prepared by LOS Engineering, Inc. determined that the Project would not result in any traffic effects relative to LOS under existing, existing plus project, cumulative, and cumulative plus project. Thus, the potential to cause a CO hotspot is less than significant.

Since the last update of the SDAPCD’s guidance (2007), the County has evaluated the potential for the growth anticipated under the General Plan Update to result in CO “hot spots” throughout the County (County of San Diego 2009). To do this, the County reviewed the CO “hot spot” analysis conducted by the South Coast Air Quality Management District (SCAQMD) for their request to the USEPA for redesignation as a CO attainment area (SCAQMD 2003). In SCAQMD’s analysis, they modeled the four most congested intersections identified in their basin (South Coast Air Basin [SCAB]), which included the following:

- **Long Beach Boulevard and Imperial Highway** – proximity to the Lynwood monitoring station, which consistently records the highest 8-hour CO concentrations in the SCAB each year.
- **Wilshire Boulevard and Veteran Avenue** – the most congested intersection in Los Angeles County, with an average daily traffic volume of 100,000 vehicles/day.
- **Highland Avenue and Sunset Boulevard** – one of the most congested intersections in the City of Los Angeles.
- **Century Boulevard and La Cienega Boulevard** – one of the most congested intersections in the City of Los Angeles.

The SCAQMD’s analysis found that these intersections had an average 7.7 ppm 1-hour CO concentrations predicted by the models, which is only 38.5% of the 1-hour CO CAAQS of 20 ppm. Therefore, even the most congested intersections in SCAQMD’s air basin would not experience a CO “hot spot”.

The air quality monitoring station closest to the most congested intersection in Los Angeles County (Wilshire Boulevard/Veteran Avenue) is the VA Hospital, West Los Angeles Station (Site ID 060370113) located at Wilshire Boulevard and Sawtelle Boulevard, approximately 0.5 miles to the southwest. Ambient CO levels monitored at this representative monitoring station are outlined in Table 11 for the original analysis year (2002), and for the most recent year of available data (2021). As shown, there is noticeable improvement in background levels of CO since the SCAQMD’s regional hotspot analysis.

Table 10. Ambient Carbon Monoxide Concentrations for SCAQMD’s Most Congested Intersection

Year	CO Concentration (ppm)	
	Maximum 1-hour	Maximum 8-hour
2002	4.3	2.7
2021	1.5	1.0

Source: EPA 2022

For the County of San Diego, there are no roadways/segments identified as deficient facilities under the worst-case traffic scenario that have an ADT greater than the 100,000 that was anticipated for the most congested intersection analyzed by SCAQMD. The most congested intersection in the County is Campo Road/SR-94 between Jamacha Boulevard and Jamacha Road in Valle De Oro. According to Table 5.23 of the Traffic and Circulation Assessment:

County of San Diego General Plan Update (Wilson and Company 2009), this intersection has an ADT of 79,200, which is only 79% of the most congested intersection in the SCAB.

Project-generated trips would only represent 0.1% of the most congested intersection in the SCAB, which were determined to not experience a CO “hot spot” according to SCAQMD’s 2003 analysis.

In addition, the CO “hot spot” analysis performed by the SCAQMD included emissions for 1997 and 2002. Both running exhaust emission factors and idling emission factors predicted by the EMFAC model decreased from 1997 through 2002 as outlined in Table 11 below. This decrease in CO emission factors is indicative of a phase-out of older vehicles and increasingly strict emissions standards implemented by CARB. Emission factors for San Diego County from the EMFAC2007 Model, which were used in the General Plan Update analysis, indicated that running exhaust emissions of CO would be less than 6.708 g CO per mile in 2010. Continued improvement in vehicular emissions at a rate faster than the rate of vehicle growth and/or congestion means that the potential for CO hotspots in the SDAB is likely to decrease.

Table 11. Carbon Monoxide Emission Factors Predicted by the EMFAC Model

Year	CO Emission Factors (grams CO/mile)	
	Running Exhaust	Idling Exhaust
1997	13.13	2.43
2002	7.98	1.30

Source: South Coast Air Quality Management District 2003

The County of San Diego concluded in the General Plan Update (2011) that because the most congested intersections in San Diego are less congested than those from the SCAB, and because emissions of CO would be lower than those used in the SCAQMD analysis, CO concentrations would be lower within San Diego County, and no CO “hot spots” are anticipated as was concluded in the SCAQMD analysis.

Given that proposed development will not result in traffic that exceeds traffic volumes considered at the most impacted intersections in the General Plan Update analysis, coupled with the considerably low level of CO concentrations in the project area, and continued improvements in vehicle emissions, the Project is not anticipated to result in CO “hot spots”. Consequently, implementation of the Project would not result in CO concentrations in excess of the health protective CAAQS or NAAQS, and as such, would not expose sensitive receptors to significant pollutant concentrations or health effects. Therefore, impacts related to sensitive receptor exposure to substantial CO concentrations would be less than significant, and no mitigation measures are required.

2.4.3.2 Toxic Air Contaminants

In addition to impacts from criteria pollutants, Project impacts may include emissions of pollutants identified by the state and federal government as TACs or HAPs. The greatest potential for TAC emissions during construction would be DPM emissions from heavy equipment operations and heavy-duty trucks, and the associated health impacts to sensitive receptors. Construction of the Project would occur over a period of 15 months and following completion of construction activities, Project-related TAC emissions would cease. The closest sensitive receptors to the Project site are single-family residences immediately adjacent on the western and southern boundaries of the Project site. As such, a construction health risk analysis was performed for the Project as discussed below.

Based on results from the HRA, the maximally exposed individual resident offsite would be located at the single-family residences to the south of the Project site at the corner of Camino El Dorado and Ocean Bluff Way. Table 12 summarizes the results of the HRA for Project construction, and detailed results are provided in Appendix B, *Health Risk Assessment Output Files*.

Table 12. Construction Activity Health Risk Assessment Results Prior to Mitigation

Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
Offsite				
Cancer Risk (resident)	Per Million	20.12	10.0	Potentially Significant
HIC (resident)	Not Applicable	0.02	1.0	Less than Significant
MICR (Pacific Academy)	Per Million	2.70	10.0	Less than Significant
HIC (Pacific Academy)	Not Applicable	<0.01	1.0	Less than Significant
MICR (The Rhoades Middle School)	Per Million	4.30	10.0	Less than Significant
HIC (The Rhoades Middle School)	Not Applicable	<0.01	1.0	Less than Significant
MICR St. John's School (Pre-K – 8)	Per Million	1.17	10.0	Less than Significant
HIC St. John's School (Pre-K – 8)	Not Applicable	<0.01	1.0	Less than Significant

Source: Appendix B

Notes: CEQA = California Environmental Quality Act; HIC = Chronic Hazard Index.

The results of the HRA demonstrate that the TAC exposure from construction diesel exhaust emissions would result in cancer risk above the 10 in 1 million threshold and Chronic Hazard Index less than 1. Therefore, TAC emissions from construction of the Project would result in a **potentially significant** impact and thus mitigation is required. The nearest schools would not exceed the 10 in a million-cancer risk threshold nor the Chronic Hazard Index threshold of 1. Because the nearest schools are within the 1 in a million-isopleth risk, according to SDAPCD guidance, the risk assessment assumed a Fraction of Time at Home (FAH) of 1 indicating that exposure is still occurring away from home (OEHHA 2015) (SDAPCD 2022).

Mitigation Measure (MM) AQ-1 would require the use of Tier 4 construction equipment for equipment greater than 25 horsepower; thus, the Project would include the use of construction equipment that emits less PM₁₀ exhaust emissions.. Table 13 shows the mitigated HRA results.

Table 13. Construction Activity Health Risk Assessment Results With Mitigation

Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
Offsite				
Cancer Risk (resident)	Per Million	5.01	10.0	Less than Significant
HIC (resident)	Not Applicable	<0.01	1.0	Less than Significant
MICR (Pacific Academy)	Per Million	0.67	10.0	Less than Significant
HIC (Pacific Academy)	Not Applicable	<0.01	1.0	Less than Significant
MICR (The Rhoades Middle School)	Per Million	1.07	10.0	Less than Significant
HIC (The Rhoades Middle School)	Not Applicable	<0.01	1.0	Less than Significant
MICR St. John’s School (Pre-K – 8)	Per Million	0.31	10.0	Less than Significant
HIC St. John’s School (Pre-K – 8)	Not Applicable	<0.01	1.0	Less than Significant

Source: Appendix B

Notes: CEQA = California Environmental Quality Act; HIC = Chronic Hazard Index.

The results of the HRA as shown in Table 13 demonstrate that the TAC exposure from construction diesel exhaust emissions after implementation of mitigation would not result in cancer risk above the 10 in 1 million threshold and Chronic Hazard Index less than 1. Therefore, TAC emissions from construction of the Project would result in a **less than significant impact with mitigation**.

2.4.3.3 Health Effects of Criteria Air Pollutants

Construction and operation of the Project would not result in emissions that exceed SDAPCD’s emission thresholds for any criteria air pollutants. The SDAPCD thresholds are based on the SDAB complying with the NAAQS and CAAQS which are protective of public health; therefore, no adverse effects to human health would result from the Project. The following provides a general discussion of criteria air pollutants and their health effects.

Regarding VOCs, some VOCs would be associated with motor vehicles and construction equipment, while others are associated with architectural coatings and asphalt off-gassing, the emissions of which would not result in exceedances of County of San Diego thresholds. Generally, the VOCs in architectural coatings and asphalt are of relatively low toxicity. Additionally, SDAPCD Rule 67.0.1 restricts the VOC content of coatings for both construction and operational applications.

In addition, VOCs and NO_x are precursors to O₃, for which the SDAB is designated as nonattainment with respect to the NAAQS and CAAQS (the SDAB is designated by EPA as an attainment area for the 1-hour O₃ NAAQS standard

and 1997 8-hour NAAQS standard). The health effects associated with O₃, as discussed in Section 2.1.4, Criteria Air Pollutants, are generally associated with reduced lung function. The contribution of VOCs and NO_x to regional ambient O₃ concentrations is the result of complex photochemistry. The increases in O₃ concentrations in the SDAB due to O₃ precursor emissions tend to be found downwind from the source location to allow time for the photochemical reactions to occur. However, the potential for exacerbating excessive O₃ concentrations would also depend on the time of year that the VOC emissions would occur because exceedances of the O₃ NAAQS and CAAQS tend to occur between April and October when solar radiation is highest. The holistic effect of a single project's emissions of O₃ precursors is speculative due to the lack of quantitative methods to assess this impact. Nonetheless, the VOC and NO_x emissions associated with Project construction could minimally contribute to regional O₃ concentrations and the associated health impacts. Due to the minimal contribution during construction and operation, as well as the existing good air quality in coastal San Diego areas, health impacts would be considered less than significant.

Regarding NO₂, which is a constituent of NO_x, construction of the Project would not contribute to exceedances of the NAAQS and CAAQS for NO₂ since NO_x emissions would be less than the applicable SDAPCD threshold. As described in Section 3.1, NO₂ health impacts are associated with respiratory irritation, which may be experienced by nearby receptors during the periods of heaviest use of off-road construction equipment. However, these operations would be relatively short term, and the off-road construction equipment would be operating on various portions of the site and would not be concentrated in one portion of the site at any one time. Construction of the Project would not require any stationary emission sources that would create substantial, localized NO₂ impacts.

As discussed earlier, PM_{2.5} and PM₁₀ pose a greater health risk than larger-size particles. When inhaled, these tiny particles can penetrate the human respiratory system's natural defenses and damage the respiratory tract. PM_{2.5} and PM₁₀ can increase the number and severity of asthma attacks, cause or aggravate bronchitis and other lung diseases, and reduce the body's ability to fight infections. Similar to O₃, construction of the Project would not exceed thresholds for PM₁₀ or PM_{2.5} and would not contribute to exceedances of the NAAQS and CAAQS for particulate matter. Due to the minimal contribution of particulate matter during construction and operation, health impacts would be considered less than significant.

Based on the preceding considerations, health impacts from Project-related criteria air pollutant emissions would be considered **less than significant**.

2.4.3.4 Mitigation Measures

The Project would include mitigation requiring the use of cleaner construction equipment to reduce PM₁₀ exhaust emissions and thereby reduce potential health risks during construction of the project.

Mitigation Measure AQ-1 **Tier 4 Interim Construction Equipment.** Prior to the commencement of construction activities for the project, the applicant shall require its construction contractor to use California Air Resources Board (CARB)-certified Tier 4 Interim engines for all diesel-powered equipment pieces that are 25 horsepower or greater through all phases of construction. In the event of changed circumstances (e.g. changes in availability of specific types of construction equipment), the applicant may submit a request to the City of Encinitas Development Planning to apply an equivalent method for achieving project-generated construction emissions that fall below the numeric cancer risk standards established by the San Diego Air Pollution Control

District (SDAPCD). Documentation using industry-standard emission estimation methodologies shall be furnished to the City of Encinitas Development Planning demonstrating that estimated project-generated construction emissions would not exceed the applicable SDAPCD cancer risk threshold with alternate construction method(s). If the documentation demonstrates the project-generated construction emissions will remain below the applicable SDAPCD cancer risk threshold, then the City of Encinitas Development Planning Director may approve the alternate construction method(s), at the Director's discretion. Required construction equipment fleet and methodologies approved by the City of Encinitas shall be included in the contract specifications for the applicant's construction contractor.

2.4.3.5 Conclusion

The results of the HRA demonstrate that after implementation of **MM-AQ-1**, which requires use of Tier 4 equipment during construction for equipment greater than 25 horsepower, the TAC exposure from construction diesel exhaust emissions would not result in cancer risk above the 10 in 1 million threshold, nor a Chronic Hazard Index greater than 1.0. VOC and NO_x emissions, as described previously, would minimally contribute to regional O₃ concentrations and the associated health effects. In addition to O₃, NO_x emissions would not contribute to potential exceedances of the NAAQS and CAAQS for NO₂. As shown in Table 2, the existing NO₂ concentrations in the area are well below the NAAQS and CAAQS standards. Thus, it is not expected the Project's operational NO_x emissions would result in exceedances of the NO₂ standards or contribute to the associated health effects. CO tends to be a localized impact associated with congested intersections. The associated CO "hotspots" were discussed previously as a less than significant impact. Thus, the Project's CO emissions would not contribute to significant health effects associated with this pollutant. PM₁₀ and PM_{2.5} would not contribute to potential exceedances of the NAAQS and CAAQS for particulate matter and would not obstruct the SDAB from coming into attainment for these pollutants and would not contribute to significant health effects associated with particulates. Therefore, overall health impacts associated with criteria air pollutants would be considered **less than significant with mitigation**.

2.4.4 Would the Project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

2.4.4.1 Construction

Odors would be generated from vehicles and/or equipment exhaust emissions during construction of the Project. Odors produced during construction would be attributable to concentrations of unburned hydrocarbons from tailpipes of construction equipment and architectural coatings. Such odors are temporary and for the types of construction activities anticipated for Project components, would generally remain localized and occur at magnitudes that would not affect substantial numbers of people. Therefore, impacts associated with odors during construction would be considered **less than significant**.

2.4.4.2 Operational

Due to the subjective nature of odor impacts, the number of variables that can influence the potential for an odor impact, and the variety of odor sources, there are no quantitative or formulaic methodologies to determine if

potential odors would have a significant impact. Examples of land uses and industrial operations that are commonly associated with odor complaints include agricultural uses, wastewater treatment plants, food processing facilities, chemical plants, composting, refineries, landfills, dairies, and fiberglass molding facilities. In addition to the odor source, the distance between the sensitive receptor(s) and the odor source, as well as the local meteorological conditions, are considerations in the potential for a project to frequently expose the public to objectionable odors. Although localized air quality impacts are focused on potential impacts to sensitive receptors, such as residences and schools, other land uses where people may congregate (e.g., workplaces) or uses with the intent to attract people (e.g., restaurants and visitor-serving accommodations) should also be considered in the evaluation of potential odor nuisance impacts. The Project is a residential development, which is not expected to produce any nuisance odors; therefore, impacts related to odors caused by the Project would be **less than significant**.

3 References

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Appendix A

CalEEMod Outputs and Estimated Emissions

Encinitas 501 Ocean Bluff Residential Project Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Encinitas 501 Ocean Bluff Residential Project
Construction Start Date	8/1/2025
Operational Year	2027
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.20
Precipitation (days)	22.4
Location	501 Ocean Bluff Way, Encinitas, CA 92024, USA
County	San Diego
City	Encinitas
Air District	San Diego County APCD
Air Basin	San Diego
TAZ	6218
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	San Diego Gas & Electric
App Version	2022.1.1.26

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Single Family Housing	27.0	Dwelling Unit	4.21	85,200	138,900	0.00	75.0	—

Other Asphalt Surfaces	0.75	Acre	0.75	0.00	0.00	0.00	—	—
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1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-10-A	Water Exposed Surfaces
Construction	C-10-B	Water Active Demolition Sites
Construction	C-10-C	Water Unpaved Construction Roads
Construction	C-11	Limit Vehicle Speeds on Unpaved Roads
Construction	C-12	Sweep Paved Roads
Energy	E-10-B	Establish Onsite Renewable Energy Systems: Solar Power
Energy	E-12-A	Install Alternative Type of Water Heater in Place of Gas Storage Tank Heater in Residences
Energy	E-12-B	Install Electric Space Heater in Place of Natural Gas Heaters in Residences
Energy	E-13	Install Electric Ranges in Place of Gas Ranges

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.11	6.10	32.0	31.1	0.05	1.37	19.9	21.2	1.26	10.2	11.4	—	6,340	6,340	0.30	0.46	6.74	6,491
Mit.	6.11	6.10	32.0	31.1	0.05	1.37	7.87	9.24	1.26	3.99	5.25	—	6,340	6,340	0.30	0.46	6.74	6,491
% Reduced	—	—	—	—	—	—	60%	56%	—	61%	54%	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.62	6.52	22.2	23.4	0.05	0.85	8.06	8.91	0.78	3.68	4.47	—	6,329	6,329	0.30	0.46	0.17	6,473
Mit.	6.62	6.52	22.2	23.4	0.05	0.85	3.74	4.59	0.78	1.59	2.38	—	6,329	6,329	0.30	0.46	0.17	6,473
% Reduced	—	—	—	—	—	—	54%	49%	—	57%	47%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.60	0.59	3.49	4.45	0.01	0.14	1.22	1.36	0.13	0.57	0.69	—	1,171	1,171	0.05	0.06	0.51	1,187
Mit.	0.60	0.59	3.49	4.45	0.01	0.14	0.55	0.69	0.13	0.24	0.37	—	1,171	1,171	0.05	0.06	0.51	1,187
% Reduced	—	—	—	—	—	—	55%	49%	—	57%	47%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.11	0.11	0.64	0.81	< 0.005	0.03	0.22	0.25	0.02	0.10	0.13	—	194	194	0.01	0.01	0.08	197
Mit.	0.11	0.11	0.64	0.81	< 0.005	0.03	0.10	0.13	0.02	0.04	0.07	—	194	194	0.01	0.01	0.08	197
% Reduced	—	—	—	—	—	—	55%	49%	—	57%	47%	—	—	—	—	—	—	—
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	75.0	250	550	250	—	—	100	—	—	55.0	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Mit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	75.0	250	550	250	—	—	100	—	—	55.0	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Mit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	4.03	3.39	32.0	31.1	0.05	1.37	19.9	21.2	1.26	10.2	11.4	—	6,340	6,340	0.30	0.46	6.74	6,491
2026	1.15	0.95	7.96	10.5	0.02	0.27	0.82	1.09	0.25	0.20	0.46	—	2,740	2,740	0.11	0.11	2.74	2,779
2027	6.11	6.10	1.90	2.60	0.01	0.06	0.23	0.29	0.06	0.06	0.11	—	681	681	0.03	0.03	0.62	691
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	2.67	2.13	22.2	23.4	0.05	0.85	8.06	8.91	0.78	3.68	4.47	—	6,329	6,329	0.30	0.46	0.17	6,473
2026	5.48	5.33	8.01	10.3	0.02	0.27	0.82	1.09	0.25	0.20	0.46	—	2,719	2,719	0.11	0.11	0.07	2,756
2027	6.62	6.52	5.73	7.66	0.02	0.19	0.70	0.88	0.17	0.17	0.34	—	2,027	2,027	0.08	0.08	0.05	2,053
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.43	0.35	3.49	3.73	0.01	0.14	1.22	1.36	0.13	0.57	0.69	—	932	932	0.04	0.06	0.39	952
2026	0.55	0.47	3.44	4.45	0.01	0.12	0.34	0.46	0.11	0.09	0.19	—	1,171	1,171	0.05	0.05	0.51	1,188
2027	0.60	0.59	0.72	0.98	< 0.005	0.02	0.10	0.12	0.02	0.02	0.05	—	263	263	0.01	0.01	0.11	266
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.08	0.06	0.64	0.68	< 0.005	0.03	0.22	0.25	0.02	0.10	0.13	—	154	154	0.01	0.01	0.06	158
2026	0.10	0.09	0.63	0.81	< 0.005	0.02	0.06	0.08	0.02	0.02	0.04	—	194	194	0.01	0.01	0.08	197
2027	0.11	0.11	0.13	0.18	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	43.5	43.5	< 0.005	< 0.005	0.02	44.1

2.3. Construction Emissions by Year, Mitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
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Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	4.03	3.39	32.0	31.1	0.05	1.37	7.87	9.24	1.26	3.99	5.25	—	6,340	6,340	0.30	0.46	6.74	6,491
2026	1.15	0.95	7.96	10.5	0.02	0.27	0.82	1.09	0.25	0.20	0.46	—	2,740	2,740	0.11	0.11	2.74	2,779
2027	6.11	6.10	1.90	2.60	0.01	0.06	0.23	0.29	0.06	0.06	0.11	—	681	681	0.03	0.03	0.62	691
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	2.67	2.13	22.2	23.4	0.05	0.85	3.74	4.59	0.78	1.59	2.38	—	6,329	6,329	0.30	0.46	0.17	6,473
2026	5.48	5.33	8.01	10.3	0.02	0.27	0.82	1.09	0.25	0.20	0.46	—	2,719	2,719	0.11	0.11	0.07	2,756
2027	6.62	6.52	5.73	7.66	0.02	0.19	0.70	0.88	0.17	0.17	0.34	—	2,027	2,027	0.08	0.08	0.05	2,053
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.43	0.35	3.49	3.73	0.01	0.14	0.55	0.69	0.13	0.24	0.37	—	932	932	0.04	0.06	0.39	952
2026	0.55	0.47	3.44	4.45	0.01	0.12	0.34	0.46	0.11	0.09	0.19	—	1,171	1,171	0.05	0.05	0.51	1,188
2027	0.60	0.59	0.72	0.98	< 0.005	0.02	0.10	0.12	0.02	0.02	0.05	—	263	263	0.01	0.01	0.11	266
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.08	0.06	0.64	0.68	< 0.005	0.03	0.10	0.13	0.02	0.04	0.07	—	154	154	0.01	0.01	0.06	158
2026	0.10	0.09	0.63	0.81	< 0.005	0.02	0.06	0.08	0.02	0.02	0.04	—	194	194	0.01	0.01	0.08	197
2027	0.11	0.11	0.13	0.18	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	43.5	43.5	< 0.005	< 0.005	0.02	44.1

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.11	3.02	0.71	7.59	0.02	0.01	1.65	1.67	0.01	0.42	0.43	11.4	1,949	1,960	1.27	0.08	6.38	2,022
Mit.	3.11	3.02	0.71	7.59	0.02	0.01	1.65	1.67	0.01	0.42	0.43	11.4	1,917	1,928	1.25	0.08	6.38	1,989

% Reduced	—	—	1%	< 0.5%	—	—	—	—	—	—	—	—	2%	2%	1%	3%	—	2%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.09	3.00	0.78	7.15	0.02	0.01	1.65	1.67	0.01	0.42	0.43	11.4	1,865	1,876	1.27	0.08	0.76	1,934
Mit.	3.09	3.00	0.78	7.15	0.02	0.01	1.65	1.67	0.01	0.42	0.43	11.4	1,832	1,844	1.25	0.08	0.76	1,901
% Reduced	—	—	1%	< 0.5%	—	—	—	—	—	—	—	—	2%	2%	1%	2%	—	2%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.08	2.99	0.77	7.14	0.02	0.01	1.63	1.64	0.01	0.41	0.43	11.4	1,874	1,886	1.27	0.08	3.10	1,946
Mit.	3.08	2.99	0.77	7.14	0.02	0.01	1.63	1.64	0.01	0.41	0.43	11.4	1,842	1,853	1.25	0.08	3.10	1,912
% Reduced	—	—	1%	< 0.5%	—	—	—	—	—	—	—	—	2%	2%	1%	3%	—	2%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.56	0.54	0.14	1.30	< 0.005	< 0.005	0.30	0.30	< 0.005	0.08	0.08	1.89	310	312	0.21	0.01	0.51	322
Mit.	0.56	0.54	0.14	1.30	< 0.005	< 0.005	0.30	0.30	< 0.005	0.08	0.08	1.89	305	307	0.21	0.01	0.51	317
% Reduced	< 0.5%	< 0.5%	1%	< 0.5%	< 0.5%	4%	—	< 0.5%	4%	—	< 0.5%	—	2%	2%	1%	3%	—	2%
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	75.0	250	550	250	—	—	100	—	—	55.0	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Mit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	75.0	250	550	250	—	—	100	—	—	55.0	—	—	—	—	—	—	—

Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Mit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Exceeds (Annual)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	13.7	40.0	100	40.0	—	—	15.0	—	—	10.0	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Mit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.14	1.04	0.71	7.59	0.02	0.01	1.65	1.67	0.01	0.42	0.43	—	1,899	1,899	0.09	0.07	5.77	1,928
Area	1.97	1.97	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	4.02	4.02	< 0.005	< 0.005	—	4.20
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	43.6	43.6	0.03	< 0.005	—	45.6
Water	—	—	—	—	—	—	—	—	—	—	—	1.82	2.46	4.28	0.19	< 0.005	—	10.4
Waste	—	—	—	—	—	—	—	—	—	—	—	9.58	0.00	9.58	0.96	0.00	—	33.5
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.61	0.61
Total	3.11	3.02	0.71	7.59	0.02	0.01	1.65	1.67	0.01	0.42	0.43	11.4	1,949	1,960	1.27	0.08	6.38	2,022
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.12	1.02	0.78	7.15	0.02	0.01	1.65	1.67	0.01	0.42	0.43	—	1,815	1,815	0.09	0.08	0.15	1,840
Area	1.97	1.97	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	4.02	4.02	< 0.005	< 0.005	—	4.20
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	43.6	43.6	0.03	< 0.005	—	45.6
Water	—	—	—	—	—	—	—	—	—	—	—	1.82	2.46	4.28	0.19	< 0.005	—	10.4
Waste	—	—	—	—	—	—	—	—	—	—	—	9.58	0.00	9.58	0.96	0.00	—	33.5

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.61	0.61
Total	3.09	3.00	0.78	7.15	0.02	0.01	1.65	1.67	0.01	0.42	0.43	11.4	1,865	1,876	1.27	0.08	0.76	1,934
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.10	1.01	0.77	7.14	0.02	0.01	1.63	1.64	0.01	0.41	0.43	—	1,827	1,827	0.09	0.08	2.49	1,854
Area	1.97	1.97	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.90	0.90	< 0.005	< 0.005	—	0.94
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	43.6	43.6	0.03	< 0.005	—	45.6
Water	—	—	—	—	—	—	—	—	—	—	—	1.82	2.46	4.28	0.19	< 0.005	—	10.4
Waste	—	—	—	—	—	—	—	—	—	—	—	9.58	0.00	9.58	0.96	0.00	—	33.5
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.61	0.61
Total	3.08	2.99	0.77	7.14	0.02	0.01	1.63	1.64	0.01	0.41	0.43	11.4	1,874	1,886	1.27	0.08	3.10	1,946
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.20	0.18	0.14	1.30	< 0.005	< 0.005	0.30	0.30	< 0.005	0.08	0.08	—	303	303	0.01	0.01	0.41	307
Area	0.36	0.36	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.15	0.15	< 0.005	< 0.005	—	0.16
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	7.22	7.22	0.01	< 0.005	—	7.55
Water	—	—	—	—	—	—	—	—	—	—	—	0.30	0.41	0.71	0.03	< 0.005	—	1.72
Waste	—	—	—	—	—	—	—	—	—	—	—	1.59	0.00	1.59	0.16	0.00	—	5.55
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.10	0.10
Total	0.56	0.54	0.14	1.30	< 0.005	< 0.005	0.30	0.30	< 0.005	0.08	0.08	1.89	310	312	0.21	0.01	0.51	322

2.6. Operations Emissions by Sector, Mitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.14	1.04	0.71	7.59	0.02	0.01	1.65	1.67	0.01	0.42	0.43	—	1,899	1,899	0.09	0.07	5.77	1,928
Area	1.97	1.97	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	4.02	4.02	< 0.005	< 0.005	—	4.20
Energy	> -0.005	> -0.005	-0.01	> -0.005	> -0.005	> -0.005	—	> -0.005	> -0.005	—	> -0.005	—	11.3	11.3	0.01	< 0.005	—	12.2

Water	—	—	—	—	—	—	—	—	—	—	—	1.82	2.46	4.28	0.19	< 0.005	—	10.4
Waste	—	—	—	—	—	—	—	—	—	—	—	9.58	0.00	9.58	0.96	0.00	—	33.5
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.61	0.61
Total	3.11	3.02	0.71	7.59	0.02	0.01	1.65	1.67	0.01	0.42	0.43	11.4	1,917	1,928	1.25	0.08	6.38	1,989
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.12	1.02	0.78	7.15	0.02	0.01	1.65	1.67	0.01	0.42	0.43	—	1,815	1,815	0.09	0.08	0.15	1,840
Area	1.97	1.97	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	4.02	4.02	< 0.005	< 0.005	—	4.20
Energy	> -0.005	> -0.005	-0.01	> -0.005	> -0.005	> -0.005	—	> -0.005	> -0.005	—	> -0.005	—	11.3	11.3	0.01	< 0.005	—	12.2
Water	—	—	—	—	—	—	—	—	—	—	—	1.82	2.46	4.28	0.19	< 0.005	—	10.4
Waste	—	—	—	—	—	—	—	—	—	—	—	9.58	0.00	9.58	0.96	0.00	—	33.5
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.61	0.61
Total	3.09	3.00	0.78	7.15	0.02	0.01	1.65	1.67	0.01	0.42	0.43	11.4	1,832	1,844	1.25	0.08	0.76	1,901
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.10	1.01	0.77	7.14	0.02	0.01	1.63	1.64	0.01	0.41	0.43	—	1,827	1,827	0.09	0.08	2.49	1,854
Area	1.97	1.97	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.90	0.90	< 0.005	< 0.005	—	0.94
Energy	> -0.005	> -0.005	-0.01	> -0.005	> -0.005	> -0.005	—	> -0.005	> -0.005	—	> -0.005	—	11.3	11.3	0.01	< 0.005	—	12.2
Water	—	—	—	—	—	—	—	—	—	—	—	1.82	2.46	4.28	0.19	< 0.005	—	10.4
Waste	—	—	—	—	—	—	—	—	—	—	—	9.58	0.00	9.58	0.96	0.00	—	33.5
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.61	0.61
Total	3.08	2.99	0.77	7.14	0.02	0.01	1.63	1.64	0.01	0.41	0.43	11.4	1,842	1,853	1.25	0.08	3.10	1,912
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.20	0.18	0.14	1.30	< 0.005	< 0.005	0.30	0.30	< 0.005	0.08	0.08	—	303	303	0.01	0.01	0.41	307
Area	0.36	0.36	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.15	0.15	< 0.005	< 0.005	—	0.16
Energy	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	> -0.005	> -0.005	—	> -0.005	—	1.87	1.87	< 0.005	< 0.005	—	2.02
Water	—	—	—	—	—	—	—	—	—	—	—	0.30	0.41	0.71	0.03	< 0.005	—	1.72
Waste	—	—	—	—	—	—	—	—	—	—	—	1.59	0.00	1.59	0.16	0.00	—	5.55

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.10	0.10
Total	0.56	0.54	0.14	1.30	< 0.005	< 0.005	0.30	0.30	< 0.005	0.08	0.08	1.89	305	307	0.21	0.01	0.51	317

3. Construction Emissions Details

3.1. Demolition (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.86	2.40	22.2	19.9	0.03	0.92	—	0.92	0.84	—	0.84	—	3,425	3,425	0.14	0.03	—	3,437
Demolition	—	—	—	—	—	—	0.49	0.49	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.12	0.11	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	18.8	18.8	< 0.005	< 0.005	—	18.8
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.11	3.11	< 0.005	< 0.005	—	3.12
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.05	0.74	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	152	152	0.01	0.01	0.57	154
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	50.1	50.1	< 0.005	0.01	0.13	52.3
Hauling	0.03	0.01	0.57	0.21	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	431	431	0.02	0.07	0.94	453
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.79	0.79	< 0.005	< 0.005	< 0.005	0.80
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.27	0.27	< 0.005	< 0.005	< 0.005	0.29
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.36	2.36	< 0.005	< 0.005	< 0.005	2.48
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.13	0.13	< 0.005	< 0.005	< 0.005	0.13
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.05	0.05	< 0.005	< 0.005	< 0.005	0.05
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.39	0.39	< 0.005	< 0.005	< 0.005	0.41

3.2. Demolition (2025) - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.86	2.40	22.2	19.9	0.03	0.92	—	0.92	0.84	—	0.84	—	3,425	3,425	0.14	0.03	—	3,437
Demolition	—	—	—	—	—	—	0.31	0.31	—	0.05	0.05	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.12	0.11	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	18.8	18.8	< 0.005	< 0.005	—	18.8
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.11	3.11	< 0.005	< 0.005	—	3.12
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.07	0.06	0.05	0.74	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	152	152	0.01	0.01	0.57	154
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	50.1	50.1	< 0.005	0.01	0.13	52.3
Hauling	0.03	0.01	0.57	0.21	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	431	431	0.02	0.07	0.94	453
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.79	0.79	< 0.005	< 0.005	< 0.005	0.80
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.27	0.27	< 0.005	< 0.005	< 0.005	0.29
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.36	2.36	< 0.005	< 0.005	< 0.005	2.48
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.13	0.13	< 0.005	< 0.005	< 0.005	0.13
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.05	0.05	< 0.005	< 0.005	< 0.005	0.05
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.39	0.39	< 0.005	< 0.005	< 0.005	0.41

3.3. Site Preparation (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.94	3.31	31.6	30.2	0.05	1.37	—	1.37	1.26	—	1.26	—	5,295	5,295	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.35	0.33	< 0.005	0.01	—	0.01	0.01	—	0.01	—	58.0	58.0	< 0.005	< 0.005	—	58.2	
Dust From Material Movement	—	—	—	—	—	—	0.22	0.22	—	0.11	0.11	—	—	—	—	—	—	—	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.61	9.61	< 0.005	< 0.005	—	9.64	
Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—	—	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.06	0.83	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	171	171	0.01	0.01	0.64	173	
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	50.1	50.1	< 0.005	0.01	0.13	52.3	
Hauling	0.01	< 0.005	0.19	0.07	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	144	144	0.01	0.02	0.31	151	

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.78	1.78	< 0.005	< 0.005	< 0.005	1.81
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.55	0.55	< 0.005	< 0.005	< 0.005	0.57
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.58	1.58	< 0.005	< 0.005	< 0.005	1.65
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.30	0.30	< 0.005	< 0.005	< 0.005	0.30
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.09	0.09	< 0.005	< 0.005	< 0.005	0.09
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.26	0.26	< 0.005	< 0.005	< 0.005	0.27

3.4. Site Preparation (2025) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.94	3.31	31.6	30.2	0.05	1.37	—	1.37	1.26	—	1.26	—	5,295	5,295	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.35	0.33	< 0.005	0.01	—	0.01	0.01	—	0.01	—	58.0	58.0	< 0.005	< 0.005	—	58.2
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.61	9.61	< 0.005	< 0.005	—	9.64
Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.06	0.83	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	171	171	0.01	0.01	0.64	173
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	50.1	50.1	< 0.005	0.01	0.13	52.3
Hauling	0.01	< 0.005	0.19	0.07	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	144	144	0.01	0.02	0.31	151
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.78	1.78	< 0.005	< 0.005	< 0.005	1.81

Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.55	0.55	< 0.005	< 0.005	< 0.005	0.57
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.58	1.58	< 0.005	< 0.005	< 0.005	1.65
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.30	0.30	< 0.005	< 0.005	< 0.005	0.30
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.09	0.09	< 0.005	< 0.005	< 0.005	0.09
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.26	0.26	< 0.005	< 0.005	< 0.005	0.27

3.5. Grading (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.07	1.74	16.3	17.9	0.03	0.72	—	0.72	0.66	—	0.66	—	2,959	2,959	0.12	0.02	—	2,970
Dust From Material Movement	—	—	—	—	—	—	7.10	7.10	—	3.43	3.43	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.07	1.74	16.3	17.9	0.03	0.72	—	0.72	0.66	—	0.66	—	2,959	2,959	0.12	0.02	—	2,970

Dust From Material Movement	—	—	—	—	—	—	7.10	7.10	—	3.43	3.43	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	0.21	2.01	2.21	< 0.005	0.09	—	0.09	0.08	—	0.08	—	365	365	0.01	< 0.005	—	366
Dust From Material Movement	—	—	—	—	—	—	0.87	0.87	—	0.42	0.42	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.37	0.40	< 0.005	0.02	—	0.02	0.01	—	0.01	—	60.4	60.4	< 0.005	< 0.005	—	60.6
Dust From Material Movement	—	—	—	—	—	—	0.16	0.16	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.05	0.74	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	152	152	0.01	0.01	0.57	154
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	50.1	50.1	< 0.005	0.01	0.13	52.3
Hauling	0.20	0.06	3.39	1.27	0.02	0.05	0.67	0.72	0.05	0.18	0.23	—	2,587	2,587	0.14	0.41	5.63	2,717

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.05	0.65	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	143	143	0.01	0.01	0.01	145
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	50.1	50.1	< 0.005	0.01	< 0.005	52.2
Hauling	0.20	0.05	3.51	1.28	0.02	0.05	0.67	0.72	0.05	0.18	0.23	—	2,588	2,588	0.14	0.41	0.15	2,713
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	17.8	17.8	< 0.005	< 0.005	0.03	18.1
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.17	6.17	< 0.005	< 0.005	0.01	6.45
Hauling	0.02	0.01	0.43	0.16	< 0.005	0.01	0.08	0.09	0.01	0.02	0.03	—	319	319	0.02	0.05	0.30	335
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.95	2.95	< 0.005	< 0.005	0.01	3.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.02	1.02	< 0.005	< 0.005	< 0.005	1.07
Hauling	< 0.005	< 0.005	0.08	0.03	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	0.01	—	52.8	52.8	< 0.005	0.01	0.05	55.4

3.6. Grading (2025) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.07	1.74	16.3	17.9	0.03	0.72	—	0.72	0.66	—	0.66	—	2,959	2,959	0.12	0.02	—	2,970
Dust From Material Movement	—	—	—	—	—	—	2.77	2.77	—	1.34	1.34	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.07	1.74	16.3	17.9	0.03	0.72	—	0.72	0.66	—	0.66	—	2,959	2,959	0.12	0.02	—	2,970	
Dust From Material Movement	—	—	—	—	—	—	2.77	2.77	—	1.34	1.34	—	—	—	—	—	—	—	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	0.21	2.01	2.21	< 0.005	0.09	—	0.09	0.08	—	0.08	—	365	365	0.01	< 0.005	—	366	
Dust From Material Movement	—	—	—	—	—	—	0.34	0.34	—	0.16	0.16	—	—	—	—	—	—	—	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.37	0.40	< 0.005	0.02	—	0.02	0.01	—	0.01	—	60.4	60.4	< 0.005	< 0.005	—	60.6	
Dust From Material Movement	—	—	—	—	—	—	0.06	0.06	—	0.03	0.03	—	—	—	—	—	—	—	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.05	0.74	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	152	152	0.01	0.01	0.57	154
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	50.1	50.1	< 0.005	0.01	0.13	52.3
Hauling	0.20	0.06	3.39	1.27	0.02	0.05	0.67	0.72	0.05	0.18	0.23	—	2,587	2,587	0.14	0.41	5.63	2,717
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.05	0.65	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	143	143	0.01	0.01	0.01	145
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	50.1	50.1	< 0.005	0.01	< 0.005	52.2
Hauling	0.20	0.05	3.51	1.28	0.02	0.05	0.67	0.72	0.05	0.18	0.23	—	2,588	2,588	0.14	0.41	0.15	2,713
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	17.8	17.8	< 0.005	< 0.005	0.03	18.1
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.17	6.17	< 0.005	< 0.005	0.01	6.45
Hauling	0.02	0.01	0.43	0.16	< 0.005	0.01	0.08	0.09	0.01	0.02	0.03	—	319	319	0.02	0.05	0.30	335
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.95	2.95	< 0.005	< 0.005	0.01	3.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.02	1.02	< 0.005	< 0.005	< 0.005	1.07
Hauling	< 0.005	< 0.005	0.08	0.03	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	0.01	—	52.8	52.8	< 0.005	0.01	0.05	55.4

3.7. Building Construction Ph1 (2026) - Unmitigated

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

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

Off-Road	0.23	0.20	1.77	2.11	< 0.005	0.07	—	0.07	0.06	—	0.06	—	445	445	0.02	< 0.005	—	446
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.20	1.77	2.11	< 0.005	0.07	—	0.07	0.06	—	0.06	—	445	445	0.02	< 0.005	—	446
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.85	1.01	< 0.005	0.03	—	0.03	0.03	—	0.03	—	213	213	0.01	< 0.005	—	214
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.16	0.18	< 0.005	0.01	—	0.01	0.01	—	0.01	—	35.3	35.3	< 0.005	< 0.005	—	35.4
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.43	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	93.0	93.0	< 0.005	< 0.005	0.33	94.4
Vendor	0.01	0.01	0.19	0.09	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	147	147	0.01	0.02	0.36	154
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.38	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	87.8	87.8	< 0.005	< 0.005	0.01	89.0
Vendor	0.01	< 0.005	0.20	0.09	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	147	147	0.01	0.02	0.01	154
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.18	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	42.5	42.5	< 0.005	< 0.005	0.07	43.1
Vendor	0.01	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	70.7	70.7	< 0.005	0.01	0.07	73.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.03	7.03	< 0.005	< 0.005	0.01	7.13
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.7	11.7	< 0.005	< 0.005	0.01	12.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Building Construction Ph1 (2026) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.20	1.77	2.11	< 0.005	0.07	—	0.07	0.06	—	0.06	—	445	445	0.02	< 0.005	—	446
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.23	0.20	1.77	2.11	< 0.005	0.07	—	0.07	0.06	—	0.06	—	445	445	0.02	< 0.005	—	446
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.85	1.01	< 0.005	0.03	—	0.03	0.03	—	0.03	—	213	213	0.01	< 0.005	—	214
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.16	0.18	< 0.005	0.01	—	0.01	0.01	—	0.01	—	35.3	35.3	< 0.005	< 0.005	—	35.4
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.43	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	93.0	93.0	< 0.005	< 0.005	0.33	94.4
Vendor	0.01	0.01	0.19	0.09	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	147	147	0.01	0.02	0.36	154
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.38	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	87.8	87.8	< 0.005	< 0.005	0.01	89.0
Vendor	0.01	< 0.005	0.20	0.09	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	147	147	0.01	0.02	0.01	154
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.02	0.02	0.01	0.18	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	42.5	42.5	< 0.005	< 0.005	0.07	43.1
Vendor	0.01	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	70.7	70.7	< 0.005	0.01	0.07	73.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.03	7.03	< 0.005	< 0.005	0.01	7.13
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.7	11.7	< 0.005	< 0.005	0.01	12.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction Ph2 (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.20	1.77	2.11	< 0.005	0.07	—	0.07	0.06	—	0.06	—	445	445	0.02	< 0.005	—	446
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.20	1.77	2.11	< 0.005	0.07	—	0.07	0.06	—	0.06	—	445	445	0.02	< 0.005	—	446
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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Off-Road	0.13	0.11	0.95	1.14	< 0.005	0.04	—	0.04	0.03	—	0.03	—	239	239	0.01	< 0.005	—	240
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.17	0.21	< 0.005	0.01	—	0.01	0.01	—	0.01	—	39.6	39.6	< 0.005	< 0.005	—	39.7
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.43	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	93.0	93.0	< 0.005	< 0.005	0.33	94.4
Vendor	0.01	0.01	0.19	0.09	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	147	147	0.01	0.02	0.36	154
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.38	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	87.8	87.8	< 0.005	< 0.005	0.01	89.0
Vendor	0.01	< 0.005	0.20	0.09	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	147	147	0.01	0.02	0.01	154
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.21	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	47.7	47.7	< 0.005	< 0.005	0.08	48.4
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	79.3	79.3	< 0.005	0.01	0.08	82.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	7.89	7.89	< 0.005	< 0.005	0.01	8.01
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	13.1	13.1	< 0.005	< 0.005	0.01	13.7

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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3.10. Building Construction Ph2 (2026) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e	
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.20	1.77	2.11	< 0.005	0.07	—	0.07	0.06	—	0.06	—	445	445	0.02	< 0.005	—	446	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.20	1.77	2.11	< 0.005	0.07	—	0.07	0.06	—	0.06	—	445	445	0.02	< 0.005	—	446	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	0.95	1.14	< 0.005	0.04	—	0.04	0.03	—	0.03	—	239	239	0.01	< 0.005	—	240	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.02	0.02	0.17	0.21	< 0.005	0.01	—	0.01	0.01	—	0.01	—	39.6	39.6	< 0.005	< 0.005	—	39.7
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.43	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	93.0	93.0	< 0.005	< 0.005	0.33	94.4
Vendor	0.01	0.01	0.19	0.09	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	147	147	0.01	0.02	0.36	154
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.38	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	87.8	87.8	< 0.005	< 0.005	0.01	89.0
Vendor	0.01	< 0.005	0.20	0.09	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	147	147	0.01	0.02	0.01	154
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.21	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	47.7	47.7	< 0.005	< 0.005	0.08	48.4
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	79.3	79.3	< 0.005	0.01	0.08	82.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	7.89	7.89	< 0.005	< 0.005	0.01	8.01
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	13.1	13.1	< 0.005	< 0.005	0.01	13.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Building Construction Ph2 (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
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Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.19	1.69	2.11	< 0.005	0.06	—	0.06	0.06	—	0.06	—	445	445	0.02	< 0.005	—	446
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.87	0.87	< 0.005	< 0.005	—	0.87
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.14	0.14	< 0.005	< 0.005	—	0.14
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.36	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	86.3	86.3	< 0.005	< 0.005	0.01	87.5

Vendor	0.01	< 0.005	0.19	0.09	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	144	144	0.01	0.02	0.01	151
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.17	0.17	< 0.005	< 0.005	< 0.005	0.17
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.28	0.28	< 0.005	< 0.005	< 0.005	0.29
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.03	0.03	< 0.005	< 0.005	< 0.005	0.03
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.05	0.05	< 0.005	< 0.005	< 0.005	0.05
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Building Construction Ph2 (2027) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.19	1.69	2.11	< 0.005	0.06	—	0.06	0.06	—	0.06	—	445	445	0.02	< 0.005	—	446
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.87	0.87	< 0.005	< 0.005	—	0.87
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.14	0.14	< 0.005	< 0.005	—	0.14
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.36	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	86.3	86.3	< 0.005	< 0.005	0.01	87.5
Vendor	0.01	< 0.005	0.19	0.09	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	144	144	0.01	0.02	0.01	151
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.17	0.17	< 0.005	< 0.005	< 0.005	0.17
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.28	0.28	< 0.005	< 0.005	< 0.005	0.29
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.03	0.03	< 0.005	< 0.005	< 0.005	0.03
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.05	0.05	< 0.005	< 0.005	< 0.005	0.05
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Building Construction Ph3 (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.20	1.77	2.11	< 0.005	0.07	—	0.07	0.06	—	0.06	—	445	445	0.02	< 0.005	—	446
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.20	1.77	2.11	< 0.005	0.07	—	0.07	0.06	—	0.06	—	445	445	0.02	< 0.005	—	446
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.08	0.74	0.89	< 0.005	0.03	—	0.03	0.03	—	0.03	—	186	186	0.01	< 0.005	—	187
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.14	0.16	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	30.8	30.8	< 0.005	< 0.005	—	30.9

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.43	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	93.0	93.0	< 0.005	< 0.005	0.33	94.4
Vendor	0.01	0.01	0.19	0.09	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	147	147	0.01	0.02	0.36	154
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.38	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	87.8	87.8	< 0.005	< 0.005	0.01	89.0
Vendor	0.01	< 0.005	0.20	0.09	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	147	147	0.01	0.02	0.01	154
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.01	0.16	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	37.1	37.1	< 0.005	< 0.005	0.06	37.6
Vendor	< 0.005	< 0.005	0.08	0.04	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	61.7	61.7	< 0.005	0.01	0.07	64.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.14	6.14	< 0.005	< 0.005	0.01	6.23
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	10.2	10.2	< 0.005	< 0.005	0.01	10.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Building Construction Ph3 (2026) - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.20	1.77	2.11	< 0.005	0.07	—	0.07	0.06	—	0.06	—	445	445	0.02	< 0.005	—	446
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.20	1.77	2.11	< 0.005	0.07	—	0.07	0.06	—	0.06	—	445	445	0.02	< 0.005	—	446
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.08	0.74	0.89	< 0.005	0.03	—	0.03	0.03	—	0.03	—	186	186	0.01	< 0.005	—	187
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.14	0.16	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	30.8	30.8	< 0.005	< 0.005	—	30.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.04	0.04	0.03	0.43	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	93.0	93.0	< 0.005	< 0.005	0.33	94.4
Vendor	0.01	0.01	0.19	0.09	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	147	147	0.01	0.02	0.36	154
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.38	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	87.8	87.8	< 0.005	< 0.005	0.01	89.0
Vendor	0.01	< 0.005	0.20	0.09	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	147	147	0.01	0.02	0.01	154
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.01	0.16	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	37.1	37.1	< 0.005	< 0.005	0.06	37.6
Vendor	< 0.005	< 0.005	0.08	0.04	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	61.7	61.7	< 0.005	0.01	0.07	64.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.14	6.14	< 0.005	< 0.005	0.01	6.23
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	10.2	10.2	< 0.005	< 0.005	0.01	10.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Building Construction Ph3 (2027) - Unmitigated

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

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

Off-Road Equipm	0.23	0.19	1.69	2.11	< 0.005	0.06	—	0.06	0.06	—	0.06	—	445	445	0.02	< 0.005	—	446
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.20	0.25	< 0.005	0.01	—	0.01	0.01	—	0.01	—	52.2	52.2	< 0.005	< 0.005	—	52.4
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.04	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.64	8.64	< 0.005	< 0.005	—	8.67
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.36	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	86.3	86.3	< 0.005	< 0.005	0.01	87.5
Vendor	0.01	< 0.005	0.19	0.09	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	144	144	0.01	0.02	0.01	151
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	10.2	10.2	< 0.005	< 0.005	0.02	10.4
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	16.9	16.9	< 0.005	< 0.005	0.02	17.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.69	1.69	< 0.005	< 0.005	< 0.005	1.72
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.81	2.81	< 0.005	< 0.005	< 0.005	2.93
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Building Construction Ph3 (2027) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.19	1.69	2.11	< 0.005	0.06	—	0.06	0.06	—	0.06	—	445	445	0.02	< 0.005	—	446
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.20	0.25	< 0.005	0.01	—	0.01	0.01	—	0.01	—	52.2	52.2	< 0.005	< 0.005	—	52.4
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.04	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.64	8.64	< 0.005	< 0.005	—	8.67

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.36	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	86.3	86.3	< 0.005	< 0.005	0.01	87.5	
Vendor	0.01	< 0.005	0.19	0.09	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	144	144	0.01	0.02	0.01	151	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	10.2	10.2	< 0.005	< 0.005	0.02	10.4	
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	16.9	16.9	< 0.005	< 0.005	0.02	17.7	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.69	1.69	< 0.005	< 0.005	< 0.005	1.72	
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.81	2.81	< 0.005	< 0.005	< 0.005	2.93	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	

3.17. Building Construction Ph4 (2026) - Unmitigated

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

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

Off-Road Equipment	0.23	0.20	1.77	2.11	< 0.005	0.07	—	0.07	0.06	—	0.06	—	445	445	0.02	< 0.005	—	446
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.20	1.77	2.11	< 0.005	0.07	—	0.07	0.06	—	0.06	—	445	445	0.02	< 0.005	—	446
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.50	0.60	< 0.005	0.02	—	0.02	0.02	—	0.02	—	125	125	0.01	< 0.005	—	126
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.09	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20.7	20.7	< 0.005	< 0.005	—	20.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.43	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	93.0	93.0	< 0.005	< 0.005	0.33	94.4
Vendor	0.01	0.01	0.19	0.09	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	147	147	0.01	0.02	0.36	154

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.38	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	87.8	87.8	< 0.005	< 0.005	0.01	89.0	
Vendor	0.01	< 0.005	0.20	0.09	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	147	147	0.01	0.02	0.01	154	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	25.0	25.0	< 0.005	< 0.005	0.04	25.3	
Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	41.5	41.5	< 0.005	0.01	0.04	43.4	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.13	4.13	< 0.005	< 0.005	0.01	4.19	
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.88	6.88	< 0.005	< 0.005	0.01	7.19	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	

3.18. Building Construction Ph4 (2026) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.20	1.77	2.11	< 0.005	0.07	—	0.07	0.06	—	0.06	—	445	445	0.02	< 0.005	—	446
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.20	1.77	2.11	< 0.005	0.07	—	0.07	0.06	—	0.06	—	445	445	0.02	< 0.005	—	446
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.50	0.60	< 0.005	0.02	—	0.02	0.02	—	0.02	—	125	125	0.01	< 0.005	—	126
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.09	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20.7	20.7	< 0.005	< 0.005	—	20.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.43	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	93.0	93.0	< 0.005	< 0.005	0.33	94.4
Vendor	0.01	0.01	0.19	0.09	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	147	147	0.01	0.02	0.36	154
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.38	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	87.8	87.8	< 0.005	< 0.005	0.01	89.0

Vendor	0.01	< 0.005	0.20	0.09	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	147	147	0.01	0.02	0.01	154
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	25.0	25.0	< 0.005	< 0.005	0.04	25.3
Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	41.5	41.5	< 0.005	0.01	0.04	43.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.13	4.13	< 0.005	< 0.005	0.01	4.19
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.88	6.88	< 0.005	< 0.005	0.01	7.19
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.19. Building Construction Ph4 (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.19	1.69	2.11	< 0.005	0.06	—	0.06	0.06	—	0.06	—	445	445	0.02	< 0.005	—	446
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.19	1.69	2.11	< 0.005	0.06	—	0.06	0.06	—	0.06	—	445	445	0.02	< 0.005	—	446

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.43	0.54	< 0.005	0.02	—	0.02	0.01	—	0.01	—	113	113	< 0.005	< 0.005	—	113	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	18.7	18.7	< 0.005	< 0.005	—	18.8	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.02	0.41	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	91.4	91.4	< 0.005	< 0.005	0.30	92.8	
Vendor	0.01	0.01	0.18	0.09	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	144	144	0.01	0.02	0.32	151	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.36	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	86.3	86.3	< 0.005	< 0.005	0.01	87.5	
Vendor	0.01	< 0.005	0.19	0.09	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	144	144	0.01	0.02	0.01	151	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	22.2	22.2	< 0.005	< 0.005	0.03	22.5	
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	36.7	36.7	< 0.005	0.01	0.04	38.3	

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	3.67	3.67	< 0.005	< 0.005	0.01	3.72
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.08	6.08	< 0.005	< 0.005	0.01	6.34
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.20. Building Construction Ph4 (2027) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.19	1.69	2.11	< 0.005	0.06	—	0.06	0.06	—	0.06	—	445	445	0.02	< 0.005	—	446
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.19	1.69	2.11	< 0.005	0.06	—	0.06	0.06	—	0.06	—	445	445	0.02	< 0.005	—	446
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.43	0.54	< 0.005	0.02	—	0.02	0.01	—	0.01	—	113	113	< 0.005	< 0.005	—	113

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	—	18.7	18.7	< 0.005	< 0.005	—	18.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.02	0.41	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	—	91.4	91.4	< 0.005	< 0.005	0.30	92.8
Vendor	0.01	0.01	0.18	0.09	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	—	144	144	0.01	0.02	0.32	151
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.36	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	—	86.3	86.3	< 0.005	< 0.005	0.01	87.5
Vendor	0.01	< 0.005	0.19	0.09	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	—	144	144	0.01	0.02	0.01	151
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	—	22.2	22.2	< 0.005	< 0.005	0.03	22.5
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	—	36.7	36.7	< 0.005	0.01	0.04	38.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	—	3.67	3.67	< 0.005	< 0.005	0.01	3.72
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	6.08	6.08	< 0.005	< 0.005	0.01	6.34
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00	0.00	0.00	0.00	0.00	0.00

3.21. Paving (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.85	0.71	6.52	8.84	0.01	0.29	—	0.29	0.26	—	0.26	—	1,351	1,351	0.05	0.01	—	1,355
Paving	0.10	0.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.36	0.48	< 0.005	0.02	—	0.02	0.01	—	0.01	—	74.0	74.0	< 0.005	< 0.005	—	74.3
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.3	12.3	< 0.005	< 0.005	—	12.3
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.07	0.81	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	179	179	0.01	0.01	0.02	182
Vendor	0.01	0.01	0.21	0.10	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	150	150	0.01	0.02	0.01	157
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.91	9.91	< 0.005	< 0.005	0.02	10.1
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.23	8.23	< 0.005	< 0.005	0.01	8.60
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.64	1.64	< 0.005	< 0.005	< 0.005	1.66
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.36	1.36	< 0.005	< 0.005	< 0.005	1.42
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.22. Paving (2025) - Mitigated

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

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

Off-Road Equipm	0.85	0.71	6.52	8.84	0.01	0.29	—	0.29	0.26	—	0.26	—	1,351	1,351	0.05	0.01	—	1,355
Paving	0.10	0.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.36	0.48	< 0.005	0.02	—	0.02	0.01	—	0.01	—	74.0	74.0	< 0.005	< 0.005	—	74.3
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.3	12.3	< 0.005	< 0.005	—	12.3
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.07	0.81	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	179	179	0.01	0.01	0.02	182
Vendor	0.01	0.01	0.21	0.10	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	150	150	0.01	0.02	0.01	157
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.91	9.91	< 0.005	< 0.005	0.02	10.1
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.23	8.23	< 0.005	< 0.005	0.01	8.60
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.64	1.64	< 0.005	< 0.005	< 0.005	1.66
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.36	1.36	< 0.005	< 0.005	< 0.005	1.42
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.23. Architectural Coating Ph1 (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	4.59	4.59	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Architect Coatings	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.31	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	70.2	70.2	< 0.005	< 0.005	0.01	71.2
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	49.2	49.2	< 0.005	0.01	< 0.005	51.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.97	0.97	< 0.005	< 0.005	< 0.005	0.98
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.67	0.67	< 0.005	< 0.005	< 0.005	0.70
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.16	0.16	< 0.005	< 0.005	< 0.005	0.16
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.11	0.11	< 0.005	< 0.005	< 0.005	0.12
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.24. Architectural Coating Ph1 (2026) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	4.59	4.59	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.31	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	70.2	70.2	< 0.005	< 0.005	0.01	71.2
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	49.2	49.2	< 0.005	0.01	< 0.005	51.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.97	0.97	< 0.005	< 0.005	< 0.005	0.98
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.67	0.67	< 0.005	< 0.005	< 0.005	0.70
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.16	0.16	< 0.005	< 0.005	< 0.005	0.16
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.11	0.11	< 0.005	< 0.005	< 0.005	0.12
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.25. Architectural Coating Ph2 (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	6.04	6.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	0.17	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Architectural Coating	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.29	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	69.0	69.0	< 0.005	< 0.005	0.01	70.0
Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	48.1	48.1	< 0.005	0.01	< 0.005	50.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.91	1.91	< 0.005	< 0.005	< 0.005	1.94
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.32	1.32	< 0.005	< 0.005	< 0.005	1.38
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.32	0.32	< 0.005	< 0.005	< 0.005	0.32
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.22	0.22	< 0.005	< 0.005	< 0.005	0.23
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.26. Architectural Coating Ph2 (2027) - Mitigated

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	6.04	6.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	0.17	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.29	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	69.0	69.0	< 0.005	< 0.005	0.01	70.0
Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	48.1	48.1	< 0.005	0.01	< 0.005	50.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.91	1.91	< 0.005	< 0.005	< 0.005	1.94
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.32	1.32	< 0.005	< 0.005	< 0.005	1.38
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.32	0.32	< 0.005	< 0.005	< 0.005	0.32
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.22	0.22	< 0.005	< 0.005	< 0.005	0.23
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.27. Architectural Coating Ph3 (2027) - Unmitigated

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

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

Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	6.07	6.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	0.17	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.29	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	69.0	69.0	< 0.005	< 0.005	0.01	70.0
Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	48.1	48.1	< 0.005	0.01	< 0.005	50.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.91	1.91	< 0.005	< 0.005	< 0.005	1.94
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.32	1.32	< 0.005	< 0.005	< 0.005	1.38
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.32	0.32	< 0.005	< 0.005	< 0.005	0.32
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.22	0.22	< 0.005	< 0.005	< 0.005	0.23
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.28. Architectural Coating Ph3 (2027) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Architectural Coating	6.07	6.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	0.17	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.29	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	69.0	69.0	< 0.005	< 0.005	0.01	70.0
Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	48.1	48.1	< 0.005	0.01	< 0.005	50.2

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.91	1.91	< 0.005	< 0.005	< 0.005	1.94	
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.32	1.32	< 0.005	< 0.005	< 0.005	1.38	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.32	0.32	< 0.005	< 0.005	< 0.005	0.32	
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.22	0.22	< 0.005	< 0.005	< 0.005	0.23	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	

3.29. Architectural Coating Ph4 (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	6.07	6.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	0.17	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.33	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	73.1	73.1	< 0.005	< 0.005	0.24	74.2
Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	48.1	48.1	< 0.005	0.01	0.11	50.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.91	1.91	< 0.005	< 0.005	< 0.005	1.94
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.32	1.32	< 0.005	< 0.005	< 0.005	1.38
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.32	0.32	< 0.005	< 0.005	< 0.005	0.32
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.22	0.22	< 0.005	< 0.005	< 0.005	0.23
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.30. Architectural Coating Ph4 (2027) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	6.07	6.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	0.17	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.33	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	73.1	73.1	< 0.005	< 0.005	0.24	74.2	
Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	48.1	48.1	< 0.005	0.01	0.11	50.2	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.91	1.91	< 0.005	< 0.005	< 0.005	1.94	
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.32	1.32	< 0.005	< 0.005	< 0.005	1.38	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.32	0.32	< 0.005	< 0.005	< 0.005	0.32	
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.22	0.22	< 0.005	< 0.005	< 0.005	0.23	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	

3.31. Utilities (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.24	2.18	3.14	< 0.005	0.08	—	0.08	0.07	—	0.07	—	467	467	0.02	< 0.005	—	468
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.24	2.18	3.14	< 0.005	0.08	—	0.08	0.07	—	0.07	—	467	467	0.02	< 0.005	—	468
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.18	0.26	< 0.005	0.01	—	0.01	0.01	—	0.01	—	38.4	38.4	< 0.005	< 0.005	—	38.5
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.35	6.35	< 0.005	< 0.005	—	6.37

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.02	0.37	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	75.9	75.9	< 0.005	< 0.005	0.28	77.1
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	50.1	50.1	< 0.005	0.01	0.13	52.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.32	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	71.7	71.7	< 0.005	< 0.005	0.01	72.6
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	50.1	50.1	< 0.005	0.01	< 0.005	52.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.94	5.94	< 0.005	< 0.005	0.01	6.03
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.11	4.11	< 0.005	< 0.005	< 0.005	4.30
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.98	0.98	< 0.005	< 0.005	< 0.005	1.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.68	0.68	< 0.005	< 0.005	< 0.005	0.71
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.32. Utilities (2025) - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.24	2.18	3.14	< 0.005	0.08	—	0.08	0.07	—	0.07	—	467	467	0.02	< 0.005	—	468
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.24	2.18	3.14	< 0.005	0.08	—	0.08	0.07	—	0.07	—	467	467	0.02	< 0.005	—	468
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.18	0.26	< 0.005	0.01	—	0.01	0.01	—	0.01	—	38.4	38.4	< 0.005	< 0.005	—	38.5
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.35	6.35	< 0.005	< 0.005	—	6.37
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.04	0.03	0.02	0.37	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	75.9	75.9	< 0.005	< 0.005	0.28	77.1
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	50.1	50.1	< 0.005	0.01	0.13	52.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.32	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	71.7	71.7	< 0.005	< 0.005	0.01	72.6
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	50.1	50.1	< 0.005	0.01	< 0.005	52.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.94	5.94	< 0.005	< 0.005	0.01	6.03
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.11	4.11	< 0.005	< 0.005	< 0.005	4.30
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.98	0.98	< 0.005	< 0.005	< 0.005	1.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.68	0.68	< 0.005	< 0.005	< 0.005	0.71
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

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

Single Family Housing	1.14	1.04	0.71	7.59	0.02	0.01	1.65	1.67	0.01	0.42	0.43	—	1,899	1,899	0.09	0.07	5.77	1,928
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.14	1.04	0.71	7.59	0.02	0.01	1.65	1.67	0.01	0.42	0.43	—	1,899	1,899	0.09	0.07	5.77	1,928
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	1.12	1.02	0.78	7.15	0.02	0.01	1.65	1.67	0.01	0.42	0.43	—	1,815	1,815	0.09	0.08	0.15	1,840
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.12	1.02	0.78	7.15	0.02	0.01	1.65	1.67	0.01	0.42	0.43	—	1,815	1,815	0.09	0.08	0.15	1,840
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.20	0.18	0.14	1.30	< 0.005	< 0.005	0.30	0.30	< 0.005	0.08	0.08	—	303	303	0.01	0.01	0.41	307
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.20	0.18	0.14	1.30	< 0.005	< 0.005	0.30	0.30	< 0.005	0.08	0.08	—	303	303	0.01	0.01	0.41	307

4.1.2. Mitigated

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

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

Single Family Housing	1.14	1.04	0.71	7.59	0.02	0.01	1.65	1.67	0.01	0.42	0.43	—	1,899	1,899	0.09	0.07	5.77	1,928
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.14	1.04	0.71	7.59	0.02	0.01	1.65	1.67	0.01	0.42	0.43	—	1,899	1,899	0.09	0.07	5.77	1,928
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	1.12	1.02	0.78	7.15	0.02	0.01	1.65	1.67	0.01	0.42	0.43	—	1,815	1,815	0.09	0.08	0.15	1,840
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.12	1.02	0.78	7.15	0.02	0.01	1.65	1.67	0.01	0.42	0.43	—	1,815	1,815	0.09	0.08	0.15	1,840
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.20	0.18	0.14	1.30	< 0.005	< 0.005	0.30	0.30	< 0.005	0.08	0.08	—	303	303	0.01	0.01	0.41	307
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.20	0.18	0.14	1.30	< 0.005	< 0.005	0.30	0.30	< 0.005	0.08	0.08	—	303	303	0.01	0.01	0.41	307

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

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

Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	43.6	43.6	0.03	< 0.005	—	45.6
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	43.6	43.6	0.03	< 0.005	—	45.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	43.6	43.6	0.03	< 0.005	—	45.6
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	43.6	43.6	0.03	< 0.005	—	45.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	7.22	7.22	0.01	< 0.005	—	7.55
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	7.22	7.22	0.01	< 0.005	—	7.55

4.2.2. Electricity Emissions By Land Use - Mitigated

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

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

Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	19.9	19.9	0.01	< 0.005	—	20.8
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	19.9	19.9	0.01	< 0.005	—	20.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	19.9	19.9	0.01	< 0.005	—	20.8
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	19.9	19.9	0.01	< 0.005	—	20.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	3.30	3.30	< 0.005	< 0.005	—	3.45
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	3.30	3.30	< 0.005	< 0.005	—	3.45

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

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

Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

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

Single Family Housing	> -0.005	> -0.005	-0.01	> -0.005	> -0.005	> -0.005	—	> -0.005	> -0.005	—	> -0.005	—	-8.62	-8.62	> -0.005	> -0.005	—	-8.65
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	> -0.005	> -0.005	-0.01	> -0.005	> -0.005	> -0.005	—	> -0.005	> -0.005	—	> -0.005	—	-8.62	-8.62	> -0.005	> -0.005	—	-8.65
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	> -0.005	> -0.005	-0.01	> -0.005	> -0.005	> -0.005	—	> -0.005	> -0.005	—	> -0.005	—	-8.62	-8.62	> -0.005	> -0.005	—	-8.65
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	> -0.005	> -0.005	-0.01	> -0.005	> -0.005	> -0.005	—	> -0.005	> -0.005	—	> -0.005	—	-8.62	-8.62	> -0.005	> -0.005	—	-8.65
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	> -0.005	> -0.005	—	> -0.005	—	-1.43	-1.43	> -0.005	> -0.005	—	-1.43
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	> -0.005	> -0.005	—	> -0.005	—	-1.43	-1.43	> -0.005	> -0.005	—	-1.43

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

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

Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	4.02	4.02	< 0.005	< 0.005	—	4.20
Consumer Products	1.83	1.83	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.15	0.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	1.97	1.97	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	4.02	4.02	< 0.005	< 0.005	—	4.20
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	4.02	4.02	< 0.005	< 0.005	—	4.20
Consumer Products	1.83	1.83	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.15	0.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	1.97	1.97	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	4.02	4.02	< 0.005	< 0.005	—	4.20
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.15	0.15	< 0.005	< 0.005	—	0.16
Consumer Products	0.33	0.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.36	0.36	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.15	0.15	< 0.005	< 0.005	—	0.16

4.3.2. Mitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	4.02	4.02	< 0.005	< 0.005	—	4.20
Consumer Products	1.83	1.83	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.15	0.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	1.97	1.97	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	4.02	4.02	< 0.005	< 0.005	—	4.20
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	4.02	4.02	< 0.005	< 0.005	—	4.20
Consumer Products	1.83	1.83	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.15	0.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	1.97	1.97	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	4.02	4.02	< 0.005	< 0.005	—	4.20
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.15	0.15	< 0.005	< 0.005	—	0.16
Consumer Products	0.33	0.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architect Coatings	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.36	0.36	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.15	0.15	< 0.005	< 0.005	—	0.16

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1.82	2.46	4.28	0.19	< 0.005	—	10.4
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1.82	2.46	4.28	0.19	< 0.005	—	10.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1.82	2.46	4.28	0.19	< 0.005	—	10.4
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1.82	2.46	4.28	0.19	< 0.005	—	10.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.30	0.41	0.71	0.03	< 0.005	—	1.72

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.30	0.41	0.71	0.03	< 0.005	—	1.72

4.4.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1.82	2.46	4.28	0.19	< 0.005	—	10.4
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1.82	2.46	4.28	0.19	< 0.005	—	10.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1.82	2.46	4.28	0.19	< 0.005	—	10.4
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1.82	2.46	4.28	0.19	< 0.005	—	10.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.30	0.41	0.71	0.03	< 0.005	—	1.72

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.30	0.41	0.71	0.03	< 0.005	—	1.72

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	9.58	0.00	9.58	0.96	0.00	—	33.5
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	9.58	0.00	9.58	0.96	0.00	—	33.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	9.58	0.00	9.58	0.96	0.00	—	33.5
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	9.58	0.00	9.58	0.96	0.00	—	33.5
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1.59	0.00	1.59	0.16	0.00	—	5.55

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1.59	0.00	1.59	0.16	0.00	—	5.55

4.5.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	9.58	0.00	9.58	0.96	0.00	—	33.5
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	9.58	0.00	9.58	0.96	0.00	—	33.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	9.58	0.00	9.58	0.96	0.00	—	33.5
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	9.58	0.00	9.58	0.96	0.00	—	33.5
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1.59	0.00	1.59	0.16	0.00	—	5.55

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1.59	0.00	1.59	0.16	0.00	—	5.55

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.61	0.61
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.61	0.61
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.61	0.61
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.61	0.61
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.10	0.10
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.10	0.10

4.6.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.61	0.61
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.61	0.61
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.61	0.61
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.61	0.61
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.10	0.10
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.10	0.10

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

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

4.7.2. Mitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

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

4.8.2. Mitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
-----------------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

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

4.9.2. Mitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	8/1/2025	8/4/2025	5.00	2.00	—
Site Preparation	Site Preparation	8/5/2025	8/8/2025	5.00	4.00	—
Grading	Grading	8/11/2025	10/10/2025	5.00	45.0	—
Building Construction Ph1	Building Construction	2/2/2026	10/2/2026	5.00	175	Bldg Ph1
Building Construction Ph2	Building Construction	4/1/2026	1/1/2027	5.00	198	Bldg Ph2
Building Construction Ph3	Building Construction	6/1/2026	3/1/2027	5.00	196	Bldg Ph3
Building Construction Ph4	Building Construction	8/10/2026	5/10/2027	5.00	196	Bldg Ph4
Paving	Paving	10/13/2025	11/7/2025	5.00	20.0	—
Architectural Coating Ph1	Architectural Coating	10/3/2026	10/9/2026	5.00	5.00	ArchCoating Ph1
Architectural Coating Ph2	Architectural Coating	1/4/2027	1/15/2027	5.00	10.0	Arch Coating Ph2
Architectural Coating Ph3	Architectural Coating	3/2/2027	3/15/2027	5.00	10.0	Arch Coating Ph3
Architectural Coating Ph4	Architectural Coating	5/11/2027	5/24/2027	5.00	10.0	Arch Coating Ph4
Utilities	Trenching	8/25/2025	10/3/2025	5.00	30.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Back hoes	Diesel	Average	3.00	8.00	84.0	0.37
Building Construction Ph1	Cranes	Diesel	Average	1.00	2.10	367	0.29
Building Construction Ph1	Forklifts	Diesel	Average	1.00	2.41	82.0	0.20
Building Construction Ph1	Generator Sets	Electric	Average	1.00	2.41	14.0	0.74
Building Construction Ph1	Tractors/Loaders/Back hoes	Diesel	Average	1.00	2.10	84.0	0.37
Building Construction Ph1	Welders	Diesel	Average	1.00	2.41	46.0	0.45
Building Construction Ph2	Cranes	Diesel	Average	1.00	2.10	367	0.29
Building Construction Ph2	Forklifts	Diesel	Average	1.00	2.41	82.0	0.20
Building Construction Ph2	Generator Sets	Electric	Average	1.00	2.41	14.0	0.74
Building Construction Ph2	Tractors/Loaders/Back hoes	Diesel	Average	1.00	2.10	84.0	0.37

Building Construction Ph2	Welders	Diesel	Average	1.00	2.41	46.0	0.45
Building Construction Ph3	Cranes	Diesel	Average	1.00	2.10	367	0.29
Building Construction Ph3	Forklifts	Diesel	Average	1.00	2.41	82.0	0.20
Building Construction Ph3	Generator Sets	Electric	Average	1.00	2.41	14.0	0.74
Building Construction Ph3	Tractors/Loaders/Back hoes	Diesel	Average	1.00	2.10	84.0	0.37
Building Construction Ph3	Welders	Diesel	Average	1.00	2.41	46.0	0.45
Building Construction Ph4	Cranes	Diesel	Average	1.00	2.10	367	0.29
Building Construction Ph4	Forklifts	Diesel	Average	1.00	2.41	82.0	0.20
Building Construction Ph4	Generator Sets	Electric	Average	1.00	2.41	14.0	0.74
Building Construction Ph4	Tractors/Loaders/Back hoes	Diesel	Average	1.00	2.10	84.0	0.37
Building Construction Ph4	Welders	Diesel	Average	1.00	2.41	46.0	0.45
Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	6.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	6.00	36.0	0.38
Paving	Cement and Mortar Mixers	Diesel	Average	2.00	6.00	10.0	0.56
Paving	Tractors/Loaders/Back hoes	Diesel	Average	1.00	8.00	84.0	0.37
Architectural Coating Ph1	Air Compressors	Electric	Average	1.00	6.00	37.0	0.48
Architectural Coating Ph2	Air Compressors	Electric	Average	1.00	6.00	37.0	0.48

Architectural Coating Ph3	Air Compressors	Electric	Average	1.00	6.00	37.0	0.48
Architectural Coating Ph4	Air Compressors	Electric	Average	1.00	6.00	37.0	0.48
Utilities	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Utilities	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Utilities	Tractors/Loaders/Back hoes	Diesel	Average	1.00	8.00	84.0	0.37

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Back hoes	Diesel	Average	3.00	8.00	84.0	0.37
Building Construction Ph1	Cranes	Diesel	Average	1.00	2.10	367	0.29
Building Construction Ph1	Forklifts	Diesel	Average	1.00	2.41	82.0	0.20
Building Construction Ph1	Generator Sets	Electric	Average	1.00	2.41	14.0	0.74
Building Construction Ph1	Tractors/Loaders/Back hoes	Diesel	Average	1.00	2.10	84.0	0.37

Building Construction Ph1	Welders	Diesel	Average	1.00	2.41	46.0	0.45
Building Construction Ph2	Cranes	Diesel	Average	1.00	2.10	367	0.29
Building Construction Ph2	Forklifts	Diesel	Average	1.00	2.41	82.0	0.20
Building Construction Ph2	Generator Sets	Electric	Average	1.00	2.41	14.0	0.74
Building Construction Ph2	Tractors/Loaders/Back hoes	Diesel	Average	1.00	2.10	84.0	0.37
Building Construction Ph2	Welders	Diesel	Average	1.00	2.41	46.0	0.45
Building Construction Ph3	Cranes	Diesel	Average	1.00	2.10	367	0.29
Building Construction Ph3	Forklifts	Diesel	Average	1.00	2.41	82.0	0.20
Building Construction Ph3	Generator Sets	Electric	Average	1.00	2.41	14.0	0.74
Building Construction Ph3	Tractors/Loaders/Back hoes	Diesel	Average	1.00	2.10	84.0	0.37
Building Construction Ph3	Welders	Diesel	Average	1.00	2.41	46.0	0.45
Building Construction Ph4	Cranes	Diesel	Average	1.00	2.10	367	0.29
Building Construction Ph4	Forklifts	Diesel	Average	1.00	2.41	82.0	0.20
Building Construction Ph4	Generator Sets	Electric	Average	1.00	2.41	14.0	0.74
Building Construction Ph4	Tractors/Loaders/Back hoes	Diesel	Average	1.00	2.10	84.0	0.37
Building Construction Ph4	Welders	Diesel	Average	1.00	2.41	46.0	0.45
Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	6.00	89.0	0.36

Paving	Rollers	Diesel	Average	2.00	6.00	36.0	0.38
Paving	Cement and Mortar Mixers	Diesel	Average	2.00	6.00	10.0	0.56
Paving	Tractors/Loaders/Back hoes	Diesel	Average	1.00	8.00	84.0	0.37
Architectural Coating Ph1	Air Compressors	Electric	Average	1.00	6.00	37.0	0.48
Architectural Coating Ph2	Air Compressors	Electric	Average	1.00	6.00	37.0	0.48
Architectural Coating Ph3	Air Compressors	Electric	Average	1.00	6.00	37.0	0.48
Architectural Coating Ph4	Air Compressors	Electric	Average	1.00	6.00	37.0	0.48
Utilities	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Utilities	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Utilities	Tractors/Loaders/Back hoes	Diesel	Average	1.00	8.00	84.0	0.37

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	16.0	12.0	LDA,LDT1,LDT2
Demolition	Vendor	2.00	7.63	HHDT,MHDT
Demolition	Hauling	6.00	20.0	HHDT
Demolition	Onsite truck	0.00	0.00	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	18.0	12.0	LDA,LDT1,LDT2
Site Preparation	Vendor	2.00	7.63	HHDT,MHDT
Site Preparation	Hauling	2.00	20.0	HHDT

Site Preparation	Onsite truck	0.00	0.00	HHDT
Grading	—	—	—	—
Grading	Worker	16.0	12.0	LDA,LDT1,LDT2
Grading	Vendor	2.00	7.63	HHDT,MHDT
Grading	Hauling	36.0	20.0	HHDT
Grading	Onsite truck	0.00	—	HHDT
Building Construction Ph1	—	—	—	—
Building Construction Ph1	Worker	10.0	12.0	LDA,LDT1,LDT2
Building Construction Ph1	Vendor	6.00	7.63	HHDT,MHDT
Building Construction Ph1	Hauling	0.00	20.0	HHDT
Building Construction Ph1	Onsite truck	0.00	—	HHDT
Paving	—	—	—	—
Paving	Worker	20.0	12.0	LDA,LDT1,LDT2
Paving	Vendor	6.00	7.63	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	0.00	—	HHDT
Architectural Coating Ph1	—	—	—	—
Architectural Coating Ph1	Worker	8.00	12.0	LDA,LDT1,LDT2
Architectural Coating Ph1	Vendor	2.00	7.63	HHDT,MHDT
Architectural Coating Ph1	Hauling	0.00	20.0	HHDT
Architectural Coating Ph1	Onsite truck	0.00	—	HHDT
Building Construction Ph2	—	—	—	—
Building Construction Ph2	Worker	10.0	12.0	LDA,LDT1,LDT2
Building Construction Ph2	Vendor	6.00	7.63	HHDT,MHDT
Building Construction Ph2	Hauling	0.00	20.0	HHDT
Building Construction Ph2	Onsite truck	0.00	—	HHDT
Building Construction Ph3	—	—	—	—
Building Construction Ph3	Worker	10.0	12.0	LDA,LDT1,LDT2

Building Construction Ph3	Vendor	6.00	7.63	HHDT,MHDT
Building Construction Ph3	Hauling	0.00	20.0	HHDT
Building Construction Ph3	Onsite truck	0.00	—	HHDT
Building Construction Ph4	—	—	—	—
Building Construction Ph4	Worker	10.0	12.0	LDA,LDT1,LDT2
Building Construction Ph4	Vendor	6.00	7.63	HHDT,MHDT
Building Construction Ph4	Hauling	0.00	20.0	HHDT
Building Construction Ph4	Onsite truck	0.00	—	HHDT
Architectural Coating Ph2	—	—	—	—
Architectural Coating Ph2	Worker	8.00	12.0	LDA,LDT1,LDT2
Architectural Coating Ph2	Vendor	2.00	7.63	HHDT,MHDT
Architectural Coating Ph2	Hauling	0.00	20.0	HHDT
Architectural Coating Ph2	Onsite truck	0.00	—	HHDT
Architectural Coating Ph3	—	—	—	—
Architectural Coating Ph3	Worker	8.00	12.0	LDA,LDT1,LDT2
Architectural Coating Ph3	Vendor	2.00	7.63	HHDT,MHDT
Architectural Coating Ph3	Hauling	0.00	20.0	HHDT
Architectural Coating Ph3	Onsite truck	0.00	—	HHDT
Architectural Coating Ph4	—	—	—	—
Architectural Coating Ph4	Worker	8.00	12.0	LDA,LDT1,LDT2
Architectural Coating Ph4	Vendor	2.00	7.63	HHDT,MHDT
Architectural Coating Ph4	Hauling	0.00	20.0	HHDT
Architectural Coating Ph4	Onsite truck	0.00	—	HHDT
Utilities	—	—	—	—
Utilities	Worker	8.00	12.0	LDA,LDT1,LDT2
Utilities	Vendor	2.00	7.63	HHDT,MHDT
Utilities	Hauling	0.00	20.0	HHDT
Utilities	Onsite truck	0.00	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	16.0	12.0	LDA,LDT1,LDT2
Demolition	Vendor	2.00	7.63	HHDT,MHDT
Demolition	Hauling	6.00	20.0	HHDT
Demolition	Onsite truck	0.00	0.00	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	18.0	12.0	LDA,LDT1,LDT2
Site Preparation	Vendor	2.00	7.63	HHDT,MHDT
Site Preparation	Hauling	2.00	20.0	HHDT
Site Preparation	Onsite truck	0.00	0.00	HHDT
Grading	—	—	—	—
Grading	Worker	16.0	12.0	LDA,LDT1,LDT2
Grading	Vendor	2.00	7.63	HHDT,MHDT
Grading	Hauling	36.0	20.0	HHDT
Grading	Onsite truck	0.00	—	HHDT
Building Construction Ph1	—	—	—	—
Building Construction Ph1	Worker	10.0	12.0	LDA,LDT1,LDT2
Building Construction Ph1	Vendor	6.00	7.63	HHDT,MHDT
Building Construction Ph1	Hauling	0.00	20.0	HHDT
Building Construction Ph1	Onsite truck	0.00	—	HHDT
Paving	—	—	—	—
Paving	Worker	20.0	12.0	LDA,LDT1,LDT2
Paving	Vendor	6.00	7.63	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	0.00	—	HHDT
Architectural Coating Ph1	—	—	—	—

Architectural Coating Ph1	Worker	8.00	12.0	LDA,LDT1,LDT2
Architectural Coating Ph1	Vendor	2.00	7.63	HHDT,MHDT
Architectural Coating Ph1	Hauling	0.00	20.0	HHDT
Architectural Coating Ph1	Onsite truck	0.00	—	HHDT
Building Construction Ph2	—	—	—	—
Building Construction Ph2	Worker	10.0	12.0	LDA,LDT1,LDT2
Building Construction Ph2	Vendor	6.00	7.63	HHDT,MHDT
Building Construction Ph2	Hauling	0.00	20.0	HHDT
Building Construction Ph2	Onsite truck	0.00	—	HHDT
Building Construction Ph3	—	—	—	—
Building Construction Ph3	Worker	10.0	12.0	LDA,LDT1,LDT2
Building Construction Ph3	Vendor	6.00	7.63	HHDT,MHDT
Building Construction Ph3	Hauling	0.00	20.0	HHDT
Building Construction Ph3	Onsite truck	0.00	—	HHDT
Building Construction Ph4	—	—	—	—
Building Construction Ph4	Worker	10.0	12.0	LDA,LDT1,LDT2
Building Construction Ph4	Vendor	6.00	7.63	HHDT,MHDT
Building Construction Ph4	Hauling	0.00	20.0	HHDT
Building Construction Ph4	Onsite truck	0.00	—	HHDT
Architectural Coating Ph2	—	—	—	—
Architectural Coating Ph2	Worker	8.00	12.0	LDA,LDT1,LDT2
Architectural Coating Ph2	Vendor	2.00	7.63	HHDT,MHDT
Architectural Coating Ph2	Hauling	0.00	20.0	HHDT
Architectural Coating Ph2	Onsite truck	0.00	—	HHDT
Architectural Coating Ph3	—	—	—	—
Architectural Coating Ph3	Worker	8.00	12.0	LDA,LDT1,LDT2
Architectural Coating Ph3	Vendor	2.00	7.63	HHDT,MHDT
Architectural Coating Ph3	Hauling	0.00	20.0	HHDT

Architectural Coating Ph3	Onsite truck	0.00	—	HHDT
Architectural Coating Ph4	—	—	—	—
Architectural Coating Ph4	Worker	8.00	12.0	LDA,LDT1,LDT2
Architectural Coating Ph4	Vendor	2.00	7.63	HHDT,MHDT
Architectural Coating Ph4	Hauling	0.00	20.0	HHDT
Architectural Coating Ph4	Onsite truck	0.00	—	HHDT
Utilities	—	—	—	—
Utilities	Worker	8.00	12.0	LDA,LDT1,LDT2
Utilities	Vendor	2.00	7.63	HHDT,MHDT
Utilities	Hauling	0.00	20.0	HHDT
Utilities	Onsite truck	0.00	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating Ph1	7,101	2,367	0.00	0.00	219
Architectural Coating Ph2	18,936	6,312	0.00	0.00	401
Architectural Coating Ph3	18,936	6,312	0.00	0.00	474
Architectural Coating Ph4	18,936	6,312	0.00	0.00	474

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	1,000	—
Site Preparation	0.00	0.00	15.0	0.00	—
Grading	12,950	0.00	90.0	0.00	—
Paving	0.00	0.00	0.00	0.00	1.05

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Single Family Housing	0.30	0%
Other Asphalt Surfaces	0.75	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2025	0.00	589	0.03	< 0.005
2026	154	589	0.03	< 0.005
2027	294	589	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Single Family Housing	270	270	270	98,550	2,341	2,341	2,341	854,457

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Single Family Housing	270	270	270	98,550	2,341	2,341	2,341	854,457
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Single Family Housing	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	27
No Fireplaces	3
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.1.2. Mitigated

Hearth Type	Unmitigated (number)
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Single Family Housing	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	27
No Fireplaces	3
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
172530	57,510	0.00	0.00	1,960

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Single Family Housing	353,072	45.1	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	45.1	0.0330	0.0040	0.00

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Single Family Housing	161,426	45.1	0.0330	0.0040	-26,909
Other Asphalt Surfaces	0.00	45.1	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Single Family Housing	948,593	2,537,021
Other Asphalt Surfaces	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Single Family Housing	948,593	2,537,021
Other Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Single Family Housing	17.8	—
Other Asphalt Surfaces	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Single Family Housing	17.8	—
Other Asphalt Surfaces	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
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5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
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5.17. User Defined

Equipment Type	Fuel Type
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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5.18.1.2. Mitigated

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

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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5.18.2.2. Mitigated

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

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	10.8	annual days of extreme heat
Extreme Precipitation	2.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	annual hectares burned

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

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

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

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

6.2. Initial Climate Risk Scores

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

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

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

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

6.3. Adjusted Climate Risk Scores

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

Wildfire	1	1	1	2
Flooding	1	1	1	2
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	35.2
AQ-PM	40.4
AQ-DPM	72.3
Drinking Water	9.00
Lead Risk Housing	24.6
Pesticides	3.79
Toxic Releases	13.6
Traffic	78.7
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	77.5

Haz Waste Facilities/Generators	72.0
Impaired Water Bodies	58.7
Solid Waste	0.00
Sensitive Population	—
Asthma	4.26
Cardio-vascular	13.1
Low Birth Weights	84.2
Socioeconomic Factor Indicators	—
Education	41.2
Housing	60.9
Linguistic	37.7
Poverty	24.4
Unemployment	7.77

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	51.52059541
Employed	53.74053638
Median HI	62.06852303
Education	—
Bachelor's or higher	73.29654818
High school enrollment	100
Preschool enrollment	41.72975747
Transportation	—
Auto Access	71.35891184
Active commuting	51.99538047

Social	—
2-parent households	77.03066855
Voting	73.74566919
Neighborhood	—
Alcohol availability	61.11895291
Park access	53.31707943
Retail density	86.1157449
Supermarket access	59.7330938
Tree canopy	34.96727833
Housing	—
Homeownership	33.28628256
Housing habitability	50.05774413
Low-inc homeowner severe housing cost burden	37.03323495
Low-inc renter severe housing cost burden	54.86975491
Uncrowded housing	46.83690491
Health Outcomes	—
Insured adults	36.50712178
Arthritis	0.0
Asthma ER Admissions	96.9
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	35.6
Cognitively Disabled	96.9
Physically Disabled	71.5

Heart Attack ER Admissions	97.2
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	76.8
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	19.9
Elderly	34.9
English Speaking	58.3
Foreign-born	43.6
Outdoor Workers	54.3
Climate Change Adaptive Capacity	—
Impervious Surface Cover	34.8
Traffic Density	95.2
Traffic Access	23.0
Other Indices	—
Hardship	44.0
Other Decision Support	—
2016 Voting	90.2

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	28.0
Healthy Places Index Score for Project Location (b)	64.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Project-specific assumptions. 4.96 total developable area.
Construction: Construction Phases	Project Schedule ~ 21 months
Construction: Off-Road Equipment	Equipment added for utilities. Electric hookups during building construction and electric air compressors. Bldg construction equipment hours conserved to account for extended construction schedule.
Construction: Dust From Material Movement	12950 cy of import.
Construction: Trips and VMT	Assumed even numbered trips.
Construction: Architectural Coatings	Divided square footage by phase.
Operations: Vehicle Data	Based on Project LTA

Operations: Hearths	No woodburning devices or natural gas devices.
Operations: Energy Use	No natural gas

Encinitas 501 Ocean Bluff Residential Project HRA Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Encinitas 501 Ocean Bluff Residential Project HRA
Construction Start Date	8/1/2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.20
Precipitation (days)	22.4
Location	501 Ocean Bluff Way, Encinitas, CA 92024, USA
County	San Diego
City	Encinitas
Air District	San Diego County APCD
Air Basin	San Diego
TAZ	6218
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	San Diego Gas & Electric
App Version	2022.1.1.26

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Single Family Housing	27.0	Dwelling Unit	4.21	85,200	138,900	0.00	75.0	—

Other Asphalt Surfaces	0.75	Acre	0.75	0.00	0.00	0.00	—	—
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1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers
Construction	C-10-A	Water Exposed Surfaces
Construction	C-10-B	Water Active Demolition Sites
Construction	C-10-C	Water Unpaved Construction Roads
Construction	C-11	Limit Vehicle Speeds on Unpaved Roads
Construction	C-12	Sweep Paved Roads
Energy	E-10-B	Establish Onsite Renewable Energy Systems: Solar Power
Energy	E-12-A	Install Alternative Type of Water Heater in Place of Gas Storage Tank Heater in Residences
Energy	E-12-B	Install Electric Space Heater in Place of Natural Gas Heaters in Residences
Energy	E-13	Install Electric Ranges in Place of Gas Ranges

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.07	6.07	31.7	30.2	0.05	1.37	19.7	21.0	1.26	10.1	11.4	—	5,304	5,304	0.22	0.04	0.08	5,323
Mit.	6.07	6.07	14.8	28.3	0.05	0.20	7.67	7.77	0.19	3.94	4.04	—	5,304	5,304	0.22	0.04	0.08	5,323
% Reduced	—	—	53%	6%	—	85%	61%	63%	85%	61%	64%	—	—	—	—	—	—	—

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Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.50	6.42	19.1	21.5	0.03	0.80	7.10	7.91	0.74	3.43	4.17	—	3,528	3,528	0.16	0.04	< 0.005	3,545
Mit.	6.17	6.16	13.4	21.4	0.03	0.13	2.78	2.91	0.13	1.34	1.47	—	3,528	3,528	0.16	0.04	< 0.005	3,545
% Reduced	5%	4%	30%	< 0.5%	—	84%	61%	63%	83%	61%	65%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.58	0.57	3.16	3.71	0.01	0.13	1.09	1.23	0.12	0.53	0.65	—	783	783	0.03	0.01	0.01	787
Mit.	0.52	0.52	2.92	4.52	0.01	0.04	0.43	0.45	0.04	0.21	0.23	—	783	783	0.03	0.01	0.01	787
% Reduced	11%	9%	8%	-22%	—	72%	61%	63%	71%	61%	65%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.11	0.10	0.58	0.68	< 0.005	0.02	0.20	0.22	0.02	0.10	0.12	—	130	130	0.01	< 0.005	< 0.005	130
Mit.	0.10	0.10	0.53	0.83	< 0.005	0.01	0.08	0.08	0.01	0.04	0.04	—	130	130	0.01	< 0.005	< 0.005	130
% Reduced	11%	9%	8%	-22%	—	72%	61%	63%	71%	61%	65%	—	—	—	—	—	—	—
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	75.0	250	550	250	—	—	100	—	—	55.0	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Mit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	75.0	250	550	250	—	—	100	—	—	55.0	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Mit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	3.94	3.31	31.7	30.2	0.05	1.37	19.7	21.0	1.26	10.1	11.4	—	5,304	5,304	0.22	0.04	0.08	5,323
2026	0.96	0.80	7.35	8.64	0.02	0.27	0.01	0.27	0.24	< 0.005	0.25	—	1,823	1,823	0.08	0.02	0.05	1,831
2027	6.07	6.07	1.75	2.15	< 0.005	0.06	< 0.005	0.06	0.06	< 0.005	0.06	—	456	456	0.02	0.01	0.01	459
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	2.40	2.00	19.1	21.5	0.03	0.80	7.10	7.91	0.74	3.43	4.17	—	3,528	3,528	0.16	0.04	< 0.005	3,545
2026	5.31	5.19	7.36	8.65	0.02	0.27	0.01	0.27	0.24	< 0.005	0.25	—	1,823	1,823	0.08	0.02	< 0.005	1,831
2027	6.50	6.42	5.27	6.46	0.01	0.18	0.01	0.19	0.17	< 0.005	0.17	—	1,368	1,368	0.06	0.02	< 0.005	1,374
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.40	0.33	3.09	3.45	0.01	0.13	1.09	1.23	0.12	0.53	0.65	—	567	567	0.02	0.01	< 0.005	570
2026	0.47	0.41	3.16	3.71	0.01	0.11	< 0.005	0.12	0.11	< 0.005	0.11	—	783	783	0.03	0.01	0.01	787
2027	0.58	0.57	0.66	0.81	< 0.005	0.02	< 0.005	0.02	0.02	< 0.005	0.02	—	171	171	0.01	< 0.005	< 0.005	172
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.07	0.06	0.56	0.63	< 0.005	0.02	0.20	0.22	0.02	0.10	0.12	—	93.9	93.9	< 0.005	< 0.005	< 0.005	94.3
2026	0.09	0.07	0.58	0.68	< 0.005	0.02	< 0.005	0.02	0.02	< 0.005	0.02	—	130	130	0.01	< 0.005	< 0.005	130
2027	0.11	0.10	0.12	0.15	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	28.3	28.3	< 0.005	< 0.005	< 0.005	28.4

2.3. Construction Emissions by Year, Mitigated

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

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

Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.65	0.64	14.8	28.3	0.05	0.20	7.67	7.77	0.19	3.94	4.04	—	5,304	5,304	0.22	0.04	0.08	5,323
2026	0.25	0.24	6.79	10.5	0.02	0.09	0.01	0.09	0.08	< 0.005	0.08	—	1,823	1,823	0.08	0.02	0.05	1,831
2027	6.07	6.07	1.70	2.63	< 0.005	0.02	< 0.005	0.02	0.02	< 0.005	0.02	—	456	456	0.02	0.01	0.01	459
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.54	0.52	13.4	21.4	0.03	0.13	2.78	2.91	0.13	1.34	1.47	—	3,528	3,528	0.16	0.04	< 0.005	3,545
2026	4.78	4.78	6.80	10.5	0.02	0.09	0.01	0.09	0.08	< 0.005	0.08	—	1,823	1,823	0.08	0.02	< 0.005	1,831
2027	6.17	6.16	5.10	7.90	0.01	0.06	0.01	0.07	0.06	< 0.005	0.06	—	1,368	1,368	0.06	0.02	< 0.005	1,374
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.09	0.09	2.14	3.43	0.01	0.02	0.43	0.45	0.02	0.21	0.23	—	567	567	0.02	0.01	< 0.005	570
2026	0.17	0.17	2.92	4.52	0.01	0.04	< 0.005	0.04	0.04	< 0.005	0.04	—	783	783	0.03	0.01	0.01	787
2027	0.52	0.52	0.64	0.99	< 0.005	0.01	< 0.005	0.01	0.01	< 0.005	0.01	—	171	171	0.01	< 0.005	< 0.005	172
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.02	0.02	0.39	0.63	< 0.005	< 0.005	0.08	0.08	< 0.005	0.04	0.04	—	93.9	93.9	< 0.005	< 0.005	< 0.005	94.3
2026	0.03	0.03	0.53	0.83	< 0.005	0.01	< 0.005	0.01	0.01	< 0.005	0.01	—	130	130	0.01	< 0.005	< 0.005	130
2027	0.10	0.10	0.12	0.18	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	28.3	28.3	< 0.005	< 0.005	< 0.005	28.4

3. Construction Emissions Details

3.1. Demolition (2025) - Unmitigated

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

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

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Off-Road Equipment	2.86	2.40	22.2	19.9	0.03	0.92	—	0.92	0.84	—	0.84	—	3,425	3,425	0.14	0.03	—	3,437
Demolition	—	—	—	—	—	—	0.49	0.49	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.12	0.11	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	18.8	18.8	< 0.005	< 0.005	—	18.8
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.11	3.11	< 0.005	< 0.005	—	3.12
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.76	3.76	< 0.005	< 0.005	< 0.005	3.95
Hauling	0.01	< 0.005	0.10	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	15.6	15.6	< 0.005	< 0.005	0.01	16.4

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.09	0.09	< 0.005	< 0.005	< 0.005	0.09
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01

3.2. Demolition (2025) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.41	0.41	11.9	18.2	0.03	0.20	—	0.20	0.19	—	0.19	—	3,425	3,425	0.14	0.03	—	3,437
Demolition	—	—	—	—	—	—	0.31	0.31	—	0.05	0.05	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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Off-Road Equipment	< 0.005	< 0.005	0.07	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	18.8	18.8	< 0.005	< 0.005	—	18.8
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.11	3.11	< 0.005	< 0.005	—	3.12
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.76	3.76	< 0.005	< 0.005	< 0.005	3.95
Hauling	0.01	< 0.005	0.10	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	15.6	15.6	< 0.005	< 0.005	0.01	16.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.09	0.09	< 0.005	< 0.005	< 0.005	0.09
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005

Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01
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3.3. Site Preparation (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.94	3.31	31.6	30.2	0.05	1.37	—	1.37	1.26	—	1.26	—	5,295	5,295	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.35	0.33	< 0.005	0.01	—	0.01	0.01	—	0.01	—	58.0	58.0	< 0.005	< 0.005	—	58.2
Dust From Material Movement	—	—	—	—	—	—	0.22	0.22	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.01	0.01	0.06	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.61	9.61	< 0.005	< 0.005	—	9.64
Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.76	3.76	< 0.005	< 0.005	< 0.005	3.95
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.20	5.20	< 0.005	< 0.005	< 0.005	5.48
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.04	0.04	< 0.005	< 0.005	< 0.005	0.04
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.06	0.06	< 0.005	< 0.005	< 0.005	0.06
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01

3.4. Site Preparation (2025) - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.64	0.64	14.7	28.3	0.05	0.10	—	0.10	0.10	—	0.10	—	5,295	5,295	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.16	0.31	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	58.0	58.0	< 0.005	< 0.005	—	58.2
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.61	9.61	< 0.005	< 0.005	—	9.64
Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	0.01	0.01	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.76	3.76	< 0.005	< 0.005	< 0.005	3.95
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.20	5.20	< 0.005	< 0.005	< 0.005	5.48
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.04	0.04	< 0.005	< 0.005	< 0.005	0.04
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.06	0.06	< 0.005	< 0.005	< 0.005	0.06
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01

3.5. Grading (2025) - Unmitigated

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

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

Off-Road Equipment	2.07	1.74	16.3	17.9	0.03	0.72	—	0.72	0.66	—	0.66	—	2,959	2,959	0.12	0.02	—	2,970
Dust From Material Movement	—	—	—	—	—	—	7.10	7.10	—	3.43	3.43	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.07	1.74	16.3	17.9	0.03	0.72	—	0.72	0.66	—	0.66	—	2,959	2,959	0.12	0.02	—	2,970
Dust From Material Movement	—	—	—	—	—	—	7.10	7.10	—	3.43	3.43	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	0.21	2.01	2.21	< 0.005	0.09	—	0.09	0.08	—	0.08	—	365	365	0.01	< 0.005	—	366
Dust From Material Movement	—	—	—	—	—	—	0.87	0.87	—	0.42	0.42	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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Off-Road Equipm	0.05	0.04	0.37	0.40	< 0.005	0.02	—	0.02	0.01	—	0.01	—	60.4	60.4	< 0.005	< 0.005	—	60.6
Dust From Material Movement	—	—	—	—	—	—	0.16	0.16	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.76	3.76	< 0.005	< 0.005	< 0.005	3.95
Hauling	0.04	0.03	0.57	0.39	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	93.6	93.6	0.02	0.02	0.07	98.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.79	3.79	< 0.005	< 0.005	< 0.005	3.97
Hauling	0.04	0.02	0.60	0.40	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	94.5	94.5	0.02	0.02	< 0.005	99.5
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.46	0.46	< 0.005	< 0.005	< 0.005	0.49
Hauling	0.01	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.6	11.6	< 0.005	< 0.005	< 0.005	12.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.08	0.08	< 0.005	< 0.005	< 0.005	0.08
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.92	1.92	< 0.005	< 0.005	< 0.005	2.02

3.6. Grading (2025) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.39	0.39	10.3	17.8	0.03	0.08	—	0.08	0.08	—	0.08	—	2,959	2,959	0.12	0.02	—	2,970
Dust From Material Movement	—	—	—	—	—	—	2.77	2.77	—	1.34	1.34	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.39	0.39	10.3	17.8	0.03	0.08	—	0.08	0.08	—	0.08	—	2,959	2,959	0.12	0.02	—	2,970
Dust From Material Movement	—	—	—	—	—	—	2.77	2.77	—	1.34	1.34	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	1.27	2.19	< 0.005	0.01	—	0.01	0.01	—	0.01	—	365	365	0.01	< 0.005	—	366

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Dust From Material Movement	—	—	—	—	—	—	0.34	0.34	—	0.16	0.16	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.23	0.40	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	60.4	60.4	< 0.005	< 0.005	—	60.6
Dust From Material Movement	—	—	—	—	—	—	0.06	0.06	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.76	3.76	< 0.005	< 0.005	< 0.005	3.95
Hauling	0.04	0.03	0.57	0.39	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	93.6	93.6	0.02	0.02	0.07	98.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.79	3.79	< 0.005	< 0.005	< 0.005	3.97
Hauling	0.04	0.02	0.60	0.40	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	94.5	94.5	0.02	0.02	< 0.005	99.5
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.46	0.46	< 0.005	< 0.005	< 0.005	0.49

Hauling	0.01	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.6	11.6	< 0.005	< 0.005	< 0.005	12.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.08	0.08	< 0.005	< 0.005	< 0.005	0.08
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.92	1.92	< 0.005	< 0.005	< 0.005	2.02

3.7. Building Construction Ph1 (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.20	1.77	2.11	< 0.005	0.07	—	0.07	0.06	—	0.06	—	445	445	0.02	< 0.005	—	446
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.20	1.77	2.11	< 0.005	0.07	—	0.07	0.06	—	0.06	—	445	445	0.02	< 0.005	—	446
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.85	1.01	< 0.005	0.03	—	0.03	0.03	—	0.03	—	213	213	0.01	< 0.005	—	214

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Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.16	0.18	< 0.005	0.01	—	0.01	0.01	—	0.01	—	35.3	35.3	< 0.005	< 0.005	—	35.4	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.1	11.1	< 0.005	< 0.005	0.01	11.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.2	11.2	< 0.005	< 0.005	< 0.005	11.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.33	5.33	< 0.005	< 0.005	< 0.005	5.60
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.88	0.88	< 0.005	< 0.005	< 0.005	0.93
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Building Construction Ph1 (2026) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	1.63	2.59	< 0.005	0.02	—	0.02	0.02	—	0.02	—	445	445	0.02	< 0.005	—	446
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	1.63	2.59	< 0.005	0.02	—	0.02	0.02	—	0.02	—	445	445	0.02	< 0.005	—	446
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.78	1.24	< 0.005	0.01	—	0.01	0.01	—	0.01	—	213	213	0.01	< 0.005	—	214
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.14	0.23	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	35.3	35.3	< 0.005	< 0.005	—	35.4

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.1	11.1	< 0.005	< 0.005	0.01	11.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.2	11.2	< 0.005	< 0.005	< 0.005	11.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.33	5.33	< 0.005	< 0.005	< 0.005	5.60
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.88	0.88	< 0.005	< 0.005	< 0.005	0.93
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction Ph2 (2026) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.20	1.77	2.11	< 0.005	0.07	—	0.07	0.06	—	0.06	—	445	445	0.02	< 0.005	—	446
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.20	1.77	2.11	< 0.005	0.07	—	0.07	0.06	—	0.06	—	445	445	0.02	< 0.005	—	446
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	0.95	1.14	< 0.005	0.04	—	0.04	0.03	—	0.03	—	239	239	0.01	< 0.005	—	240
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.17	0.21	< 0.005	0.01	—	0.01	0.01	—	0.01	—	39.6	39.6	< 0.005	< 0.005	—	39.7
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.1	11.1	< 0.005	< 0.005	0.01	11.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.2	11.2	< 0.005	< 0.005	< 0.005	11.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.99	5.99	< 0.005	< 0.005	< 0.005	6.29
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.99	0.99	< 0.005	< 0.005	< 0.005	1.04
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Building Construction Ph2 (2026) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	1.63	2.59	< 0.005	0.02	—	0.02	0.02	—	0.02	—	445	445	0.02	< 0.005	—	446

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	1.63	2.59	< 0.005	0.02	—	0.02	0.02	—	0.02	—	445	445	0.02	< 0.005	—	446	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.88	1.39	< 0.005	0.01	—	0.01	0.01	—	0.01	—	239	239	0.01	< 0.005	—	240	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.16	0.25	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	39.6	39.6	< 0.005	< 0.005	—	39.7	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.1	11.1	< 0.005	< 0.005	0.01	11.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.2	11.2	< 0.005	< 0.005	< 0.005	11.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.99	5.99	< 0.005	< 0.005	< 0.005	6.29
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.99	0.99	< 0.005	< 0.005	< 0.005	1.04
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Building Construction Ph2 (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.19	1.69	2.11	< 0.005	0.06	—	0.06	0.06	—	0.06	—	445	445	0.02	< 0.005	—	446
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.87	0.87	< 0.005	< 0.005	—	0.87
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.14	0.14	< 0.005	< 0.005	—	0.14
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.0	11.0	< 0.005	< 0.005	< 0.005	11.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Building Construction Ph2 (2027) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	1.63	2.59	< 0.005	0.02	—	0.02	0.02	—	0.02	—	445	445	0.02	< 0.005	—	446
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.87	0.87	< 0.005	< 0.005	—	0.87
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.14	0.14	< 0.005	< 0.005	—	0.14
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.0	11.0	< 0.005	< 0.005	< 0.005	11.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Building Construction Ph3 (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.20	1.77	2.11	< 0.005	0.07	—	0.07	0.06	—	0.06	—	445	445	0.02	< 0.005	—	446
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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Off-Road Equipment	0.23	0.20	1.77	2.11	< 0.005	0.07	—	0.07	0.06	—	0.06	—	445	445	0.02	< 0.005	—	446
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.08	0.74	0.89	< 0.005	0.03	—	0.03	0.03	—	0.03	—	186	186	0.01	< 0.005	—	187
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.14	0.16	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	30.8	30.8	< 0.005	< 0.005	—	30.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.1	11.1	< 0.005	< 0.005	0.01	11.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.2	11.2	< 0.005	< 0.005	< 0.005	11.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.66	4.66	< 0.005	< 0.005	< 0.005	4.89
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.77	0.77	< 0.005	< 0.005	< 0.005	0.81
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Building Construction Ph3 (2026) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	1.63	2.59	< 0.005	0.02	—	0.02	0.02	—	0.02	—	445	445	0.02	< 0.005	—	446
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	1.63	2.59	< 0.005	0.02	—	0.02	0.02	—	0.02	—	445	445	0.02	< 0.005	—	446
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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Off-Road	0.02	0.02	0.68	1.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	186	186	0.01	< 0.005	—	187
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.12	0.20	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	30.8	30.8	< 0.005	< 0.005	—	30.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.1	11.1	< 0.005	< 0.005	0.01	11.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.2	11.2	< 0.005	< 0.005	< 0.005	11.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.66	4.66	< 0.005	< 0.005	< 0.005	4.89
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.77	0.77	< 0.005	< 0.005	< 0.005	0.81

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
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3.15. Building Construction Ph3 (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.19	1.69	2.11	< 0.005	0.06	—	0.06	0.06	—	0.06	—	445	445	0.02	< 0.005	—	446
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.20	0.25	< 0.005	0.01	—	0.01	0.01	—	0.01	—	52.2	52.2	< 0.005	< 0.005	—	52.4
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.04	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.64	8.64	< 0.005	< 0.005	—	8.67
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.0	11.0	< 0.005	< 0.005	< 0.005	11.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.28	1.28	< 0.005	< 0.005	< 0.005	1.35
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.21	0.21	< 0.005	< 0.005	< 0.005	0.22
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Building Construction Ph3 (2027) - Mitigated

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

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

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Off-Road Equipment	0.06	0.06	1.63	2.59	< 0.005	0.02	—	0.02	0.02	—	0.02	—	445	445	0.02	< 0.005	—	446
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.19	0.30	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	52.2	52.2	< 0.005	< 0.005	—	52.4
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.64	8.64	< 0.005	< 0.005	—	8.67
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.0	11.0	< 0.005	< 0.005	< 0.005	11.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.28	1.28	< 0.005	< 0.005	< 0.005	1.35

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.21	0.21	< 0.005	< 0.005	< 0.005	0.22
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.17. Building Construction Ph4 (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.20	1.77	2.11	< 0.005	0.07	—	0.07	0.06	—	0.06	—	445	445	0.02	< 0.005	—	446
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.20	1.77	2.11	< 0.005	0.07	—	0.07	0.06	—	0.06	—	445	445	0.02	< 0.005	—	446
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.50	0.60	< 0.005	0.02	—	0.02	0.02	—	0.02	—	125	125	0.01	< 0.005	—	126

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Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.09	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	—	20.7	20.7	< 0.005	< 0.005	—	20.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.1	11.1	< 0.005	< 0.005	0.01	11.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.2	11.2	< 0.005	< 0.005	< 0.005	11.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.14	3.14	< 0.005	< 0.005	< 0.005	3.29
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.52	0.52	< 0.005	< 0.005	< 0.005	0.55
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.18. Building Construction Ph4 (2026) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	1.63	2.59	< 0.005	0.02	—	0.02	0.02	—	0.02	—	445	445	0.02	< 0.005	—	446
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	1.63	2.59	< 0.005	0.02	—	0.02	0.02	—	0.02	—	445	445	0.02	< 0.005	—	446
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.46	0.73	< 0.005	0.01	—	0.01	0.01	—	0.01	—	125	125	0.01	< 0.005	—	126
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.08	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20.7	20.7	< 0.005	< 0.005	—	20.8

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.1	11.1	< 0.005	< 0.005	0.01	11.7	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.2	11.2	< 0.005	< 0.005	< 0.005	11.7	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.14	3.14	< 0.005	< 0.005	< 0.005	3.29	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.52	0.52	< 0.005	< 0.005	< 0.005	0.55	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.19. Building Construction Ph4 (2027) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.19	1.69	2.11	< 0.005	0.06	—	0.06	0.06	—	0.06	—	445	445	0.02	< 0.005	—	446
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.19	1.69	2.11	< 0.005	0.06	—	0.06	0.06	—	0.06	—	445	445	0.02	< 0.005	—	446
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.43	0.54	< 0.005	0.02	—	0.02	0.01	—	0.01	—	113	113	< 0.005	< 0.005	—	113
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	18.7	18.7	< 0.005	< 0.005	—	18.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.06	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.9	10.9	< 0.005	< 0.005	0.01	11.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.0	11.0	< 0.005	< 0.005	< 0.005	11.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.78	2.78	< 0.005	< 0.005	< 0.005	2.92
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.46	0.46	< 0.005	< 0.005	< 0.005	0.48
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.20. Building Construction Ph4 (2027) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	1.63	2.59	< 0.005	0.02	—	0.02	0.02	—	0.02	—	445	445	0.02	< 0.005	—	446

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	1.63	2.59	< 0.005	0.02	—	0.02	0.02	—	0.02	—	445	445	0.02	< 0.005	—	446	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.42	0.66	< 0.005	0.01	—	0.01	0.01	—	0.01	—	113	113	< 0.005	< 0.005	—	113	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.08	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	18.7	18.7	< 0.005	< 0.005	—	18.8	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.06	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.9	10.9	< 0.005	< 0.005	0.01	11.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.0	11.0	< 0.005	< 0.005	< 0.005	11.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.78	2.78	< 0.005	< 0.005	< 0.005	2.92
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.46	0.46	< 0.005	< 0.005	< 0.005	0.48
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.21. Paving (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.85	0.71	6.52	8.84	0.01	0.29	—	0.29	0.26	—	0.26	—	1,351	1,351	0.05	0.01	—	1,355
Paving	0.10	0.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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Off-Road Equipment	0.05	0.04	0.36	0.48	< 0.005	0.02	—	0.02	0.01	—	0.01	—	74.0	74.0	< 0.005	< 0.005	—	74.3
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.3	12.3	< 0.005	< 0.005	—	12.3
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.4	11.4	< 0.005	< 0.005	< 0.005	11.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.62	0.62	< 0.005	< 0.005	< 0.005	0.65
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.10	0.10	< 0.005	< 0.005	< 0.005	0.11
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.22. Paving (2025) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29	0.27	6.56	9.35	0.01	0.09	—	0.09	0.09	—	0.09	—	1,351	1,351	0.05	0.01	—	1,355
Paving	0.10	0.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.36	0.51	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	74.0	74.0	< 0.005	< 0.005	—	74.3
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.07	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.3	12.3	< 0.005	< 0.005	—	12.3
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.4	11.4	< 0.005	< 0.005	< 0.005	11.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.62	0.62	< 0.005	< 0.005	< 0.005	0.65
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.10	0.10	< 0.005	< 0.005	< 0.005	0.11
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.23. Architectural Coating Ph1 (2026) - Unmitigated

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

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

Off-Road Equipm	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	4.59	4.59	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.73	3.73	< 0.005	< 0.005	< 0.005	3.91
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.05	0.05	< 0.005	< 0.005	< 0.005	0.05
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.24. Architectural Coating Ph1 (2026) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Architectural Coating	4.59	4.59	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.73	3.73	< 0.005	< 0.005	< 0.005	3.91

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.05	0.05	< 0.005	< 0.005	< 0.005	0.05
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.25. Architectural Coating Ph2 (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e	
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00	0.00
Architectural Coatings	6.04	6.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	0.17	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.66	3.66	< 0.005	< 0.005	< 0.005	3.85
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.10	0.10	< 0.005	< 0.005	< 0.005	0.10
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.26. Architectural Coating Ph2 (2027) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e	
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00	0.00
Architectural Coatings	6.04	6.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00	0.00
Architectural Coatings	0.17	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.66	3.66	< 0.005	< 0.005	< 0.005	3.85
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.10	0.10	< 0.005	< 0.005	< 0.005	0.10
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.27. Architectural Coating Ph3 (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	6.07	6.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	0.17	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.66	3.66	< 0.005	< 0.005	< 0.005	3.85
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.10	0.10	< 0.005	< 0.005	< 0.005	0.10
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.28. Architectural Coating Ph3 (2027) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	6.07	6.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	0.17	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Architectural Coating	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.66	3.66	< 0.005	< 0.005	< 0.005	3.85
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.10	0.10	< 0.005	< 0.005	< 0.005	0.10
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.29. Architectural Coating Ph4 (2027) - Unmitigated

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

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

Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	6.07	6.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	0.17	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.63	3.63	< 0.005	< 0.005	< 0.005	3.82
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.10	0.10	< 0.005	< 0.005	< 0.005	0.10
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.30. Architectural Coating Ph4 (2027) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Architectural Coating	6.07	6.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	0.17	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Architectural Coatings	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.63	3.63	< 0.005	< 0.005	< 0.005	3.82

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.10	0.10	< 0.005	< 0.005	< 0.005	0.10
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.31. Utilities (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.24	2.18	3.14	< 0.005	0.08	—	0.08	0.07	—	0.07	—	467	467	0.02	< 0.005	—	468
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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Off-Road Equipment	0.28	0.24	2.18	3.14	< 0.005	0.08	—	0.08	0.07	—	0.07	—	467	467	0.02	< 0.005	—	468
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.18	0.26	< 0.005	0.01	—	0.01	0.01	—	0.01	—	38.4	38.4	< 0.005	< 0.005	—	38.5
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.35	6.35	< 0.005	< 0.005	—	6.37
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.76	3.76	< 0.005	< 0.005	< 0.005	3.95
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.79	3.79	< 0.005	< 0.005	< 0.005	3.97
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.31	0.31	< 0.005	< 0.005	< 0.005	0.33
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.05	0.05	< 0.005	< 0.005	< 0.005	0.05
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.32. Utilities (2025) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.10	2.53	3.23	< 0.005	0.05	—	0.05	0.04	—	0.04	—	467	467	0.02	< 0.005	—	468
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.10	2.53	3.23	< 0.005	0.05	—	0.05	0.04	—	0.04	—	467	467	0.02	< 0.005	—	468
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

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Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.21	0.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	38.4	38.4	< 0.005	< 0.005	—	38.5
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.04	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.35	6.35	< 0.005	< 0.005	—	6.37
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.76	3.76	< 0.005	< 0.005	< 0.005	3.95
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.79	3.79	< 0.005	< 0.005	< 0.005	3.97
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.31	0.31	< 0.005	< 0.005	< 0.005	0.33
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.05	0.05	< 0.005	< 0.005	< 0.005	0.05
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	8/1/2025	8/4/2025	5.00	2.00	—
Site Preparation	Site Preparation	8/5/2025	8/8/2025	5.00	4.00	—
Grading	Grading	8/11/2025	10/10/2025	5.00	45.0	—
Building Construction Ph1	Building Construction	2/2/2026	10/2/2026	5.00	175	Bldg Ph1
Building Construction Ph2	Building Construction	4/1/2026	1/1/2027	5.00	198	Bldg Ph2
Building Construction Ph3	Building Construction	6/1/2026	3/1/2027	5.00	196	Bldg Ph3

Building Construction Ph4	Building Construction	8/10/2026	5/10/2027	5.00	196	Bldg Ph4
Paving	Paving	10/13/2025	11/7/2025	5.00	20.0	—
Architectural Coating Ph1	Architectural Coating	10/3/2026	10/9/2026	5.00	5.00	ArchCoating Ph1
Architectural Coating Ph2	Architectural Coating	1/4/2027	1/15/2027	5.00	10.0	Arch Coating Ph2
Architectural Coating Ph3	Architectural Coating	3/2/2027	3/15/2027	5.00	10.0	Arch Coating Ph3
Architectural Coating Ph4	Architectural Coating	5/11/2027	5/24/2027	5.00	10.0	Arch Coating Ph4
Utilities	Trenching	8/25/2025	10/3/2025	5.00	30.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Back hoes	Diesel	Average	3.00	8.00	84.0	0.37
Building Construction Ph1	Cranes	Diesel	Average	1.00	2.10	367	0.29
Building Construction Ph1	Forklifts	Diesel	Average	1.00	2.41	82.0	0.20
Building Construction Ph1	Generator Sets	Electric	Average	1.00	2.41	14.0	0.74

Building Construction Ph1	Tractors/Loaders/Back	Diesel	Average	1.00	2.10	84.0	0.37
Building Construction Ph1	Welders	Diesel	Average	1.00	2.41	46.0	0.45
Building Construction Ph2	Cranes	Diesel	Average	1.00	2.10	367	0.29
Building Construction Ph2	Forklifts	Diesel	Average	1.00	2.41	82.0	0.20
Building Construction Ph2	Generator Sets	Electric	Average	1.00	2.41	14.0	0.74
Building Construction Ph2	Tractors/Loaders/Back hoes	Diesel	Average	1.00	2.10	84.0	0.37
Building Construction Ph2	Welders	Diesel	Average	1.00	2.41	46.0	0.45
Building Construction Ph3	Cranes	Diesel	Average	1.00	2.10	367	0.29
Building Construction Ph3	Forklifts	Diesel	Average	1.00	2.41	82.0	0.20
Building Construction Ph3	Generator Sets	Electric	Average	1.00	2.41	14.0	0.74
Building Construction Ph3	Tractors/Loaders/Back hoes	Diesel	Average	1.00	2.10	84.0	0.37
Building Construction Ph3	Welders	Diesel	Average	1.00	2.41	46.0	0.45
Building Construction Ph4	Cranes	Diesel	Average	1.00	2.10	367	0.29
Building Construction Ph4	Forklifts	Diesel	Average	1.00	2.41	82.0	0.20
Building Construction Ph4	Generator Sets	Electric	Average	1.00	2.41	14.0	0.74
Building Construction Ph4	Tractors/Loaders/Back hoes	Diesel	Average	1.00	2.10	84.0	0.37
Building Construction Ph4	Welders	Diesel	Average	1.00	2.41	46.0	0.45
Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42

Paving	Paving Equipment	Diesel	Average	2.00	6.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	6.00	36.0	0.38
Paving	Cement and Mortar Mixers	Diesel	Average	2.00	6.00	10.0	0.56
Paving	Tractors/Loaders/Back hoes	Diesel	Average	1.00	8.00	84.0	0.37
Architectural Coating Ph1	Air Compressors	Electric	Average	1.00	6.00	37.0	0.48
Architectural Coating Ph2	Air Compressors	Electric	Average	1.00	6.00	37.0	0.48
Architectural Coating Ph3	Air Compressors	Electric	Average	1.00	6.00	37.0	0.48
Architectural Coating Ph4	Air Compressors	Electric	Average	1.00	6.00	37.0	0.48
Utilities	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Utilities	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Utilities	Tractors/Loaders/Back hoes	Diesel	Average	1.00	8.00	84.0	0.37

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Interim	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Tier 4 Interim	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Tier 4 Interim	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Interim	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Tier 4 Interim	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Tier 4 Interim	1.00	8.00	36.0	0.38
Grading	Graders	Diesel	Tier 4 Interim	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 4 Interim	1.00	8.00	367	0.40

Grading	Tractors/Loaders/Back	Diesel	Tier 4 Interim	3.00	8.00	84.0	0.37
Building Construction Ph1	Cranes	Diesel	Tier 4 Interim	1.00	2.10	367	0.29
Building Construction Ph1	Forklifts	Diesel	Tier 4 Interim	1.00	2.41	82.0	0.20
Building Construction Ph1	Generator Sets	Electric	Average	1.00	2.41	14.0	0.74
Building Construction Ph1	Tractors/Loaders/Back hoes	Diesel	Tier 4 Interim	1.00	2.10	84.0	0.37
Building Construction Ph1	Welders	Diesel	Tier 4 Interim	1.00	2.41	46.0	0.45
Building Construction Ph2	Cranes	Diesel	Tier 4 Interim	1.00	2.10	367	0.29
Building Construction Ph2	Forklifts	Diesel	Tier 4 Interim	1.00	2.41	82.0	0.20
Building Construction Ph2	Generator Sets	Electric	Average	1.00	2.41	14.0	0.74
Building Construction Ph2	Tractors/Loaders/Back hoes	Diesel	Tier 4 Interim	1.00	2.10	84.0	0.37
Building Construction Ph2	Welders	Diesel	Tier 4 Interim	1.00	2.41	46.0	0.45
Building Construction Ph3	Cranes	Diesel	Tier 4 Interim	1.00	2.10	367	0.29
Building Construction Ph3	Forklifts	Diesel	Tier 4 Interim	1.00	2.41	82.0	0.20
Building Construction Ph3	Generator Sets	Electric	Average	1.00	2.41	14.0	0.74
Building Construction Ph3	Tractors/Loaders/Back hoes	Diesel	Tier 4 Interim	1.00	2.10	84.0	0.37
Building Construction Ph3	Welders	Diesel	Tier 4 Interim	1.00	2.41	46.0	0.45
Building Construction Ph4	Cranes	Diesel	Tier 4 Interim	1.00	2.10	367	0.29
Building Construction Ph4	Forklifts	Diesel	Tier 4 Interim	1.00	2.41	82.0	0.20

Building Construction Ph4	Generator Sets	Electric	Average	1.00	2.41	14.0	0.74
Building Construction Ph4	Tractors/Loaders/Back hoes	Diesel	Tier 4 Interim	1.00	2.10	84.0	0.37
Building Construction Ph4	Welders	Diesel	Tier 4 Interim	1.00	2.41	46.0	0.45
Paving	Pavers	Diesel	Tier 4 Interim	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Interim	2.00	6.00	89.0	0.36
Paving	Rollers	Diesel	Tier 4 Interim	2.00	6.00	36.0	0.38
Paving	Cement and Mortar Mixers	Diesel	Average	2.00	6.00	10.0	0.56
Paving	Tractors/Loaders/Back hoes	Diesel	Tier 4 Interim	1.00	8.00	84.0	0.37
Architectural Coating Ph1	Air Compressors	Electric	Average	1.00	6.00	37.0	0.48
Architectural Coating Ph2	Air Compressors	Electric	Average	1.00	6.00	37.0	0.48
Architectural Coating Ph3	Air Compressors	Electric	Average	1.00	6.00	37.0	0.48
Architectural Coating Ph4	Air Compressors	Electric	Average	1.00	6.00	37.0	0.48
Utilities	Excavators	Diesel	Tier 4 Interim	1.00	8.00	36.0	0.38
Utilities	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Utilities	Tractors/Loaders/Back hoes	Diesel	Tier 4 Interim	1.00	8.00	84.0	0.37

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	0.00	12.0	LDA,LDT1,LDT2

Demolition	Vendor	2.00	0.25	HHDT,MHDT
Demolition	Hauling	6.00	0.25	HHDT
Demolition	Onsite truck	0.00	0.00	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	0.00	12.0	LDA,LDT1,LDT2
Site Preparation	Vendor	2.00	0.25	HHDT,MHDT
Site Preparation	Hauling	2.00	0.25	HHDT
Site Preparation	Onsite truck	0.00	0.00	HHDT
Grading	—	—	—	—
Grading	Worker	0.00	12.0	LDA,LDT1,LDT2
Grading	Vendor	2.00	0.25	HHDT,MHDT
Grading	Hauling	36.0	0.25	HHDT
Grading	Onsite truck	0.00	—	HHDT
Building Construction Ph1	—	—	—	—
Building Construction Ph1	Worker	0.00	12.0	LDA,LDT1,LDT2
Building Construction Ph1	Vendor	6.00	0.25	HHDT,MHDT
Building Construction Ph1	Hauling	0.00	20.0	HHDT
Building Construction Ph1	Onsite truck	0.00	—	HHDT
Paving	—	—	—	—
Paving	Worker	0.00	12.0	LDA,LDT1,LDT2
Paving	Vendor	6.00	0.25	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	0.00	—	HHDT
Architectural Coating Ph1	—	—	—	—
Architectural Coating Ph1	Worker	0.00	12.0	LDA,LDT1,LDT2
Architectural Coating Ph1	Vendor	2.00	0.25	HHDT,MHDT
Architectural Coating Ph1	Hauling	0.00	20.0	HHDT
Architectural Coating Ph1	Onsite truck	0.00	—	HHDT

Building Construction Ph2	—	—	—	—
Building Construction Ph2	Worker	0.00	12.0	LDA,LDT1,LDT2
Building Construction Ph2	Vendor	6.00	0.25	HHDT,MHDT
Building Construction Ph2	Hauling	0.00	20.0	HHDT
Building Construction Ph2	Onsite truck	0.00	—	HHDT
Building Construction Ph3	—	—	—	—
Building Construction Ph3	Worker	0.00	12.0	LDA,LDT1,LDT2
Building Construction Ph3	Vendor	6.00	0.25	HHDT,MHDT
Building Construction Ph3	Hauling	0.00	20.0	HHDT
Building Construction Ph3	Onsite truck	0.00	—	HHDT
Building Construction Ph4	—	—	—	—
Building Construction Ph4	Worker	0.00	12.0	LDA,LDT1,LDT2
Building Construction Ph4	Vendor	6.00	0.25	HHDT,MHDT
Building Construction Ph4	Hauling	0.00	20.0	HHDT
Building Construction Ph4	Onsite truck	0.00	—	HHDT
Architectural Coating Ph2	—	—	—	—
Architectural Coating Ph2	Worker	0.00	12.0	LDA,LDT1,LDT2
Architectural Coating Ph2	Vendor	2.00	0.25	HHDT,MHDT
Architectural Coating Ph2	Hauling	0.00	20.0	HHDT
Architectural Coating Ph2	Onsite truck	0.00	—	HHDT
Architectural Coating Ph3	—	—	—	—
Architectural Coating Ph3	Worker	0.00	0.25	LDA,LDT1,LDT2
Architectural Coating Ph3	Vendor	2.00	0.25	HHDT,MHDT
Architectural Coating Ph3	Hauling	0.00	20.0	HHDT
Architectural Coating Ph3	Onsite truck	0.00	—	HHDT
Architectural Coating Ph4	—	—	—	—
Architectural Coating Ph4	Worker	0.00	12.0	LDA,LDT1,LDT2
Architectural Coating Ph4	Vendor	2.00	0.25	HHDT,MHDT

Architectural Coating Ph4	Hauling	0.00	20.0	HHDT
Architectural Coating Ph4	Onsite truck	0.00	—	HHDT
Utilities	—	—	—	—
Utilities	Worker	0.00	12.0	LDA,LDT1,LDT2
Utilities	Vendor	2.00	0.25	HHDT,MHDT
Utilities	Hauling	0.00	20.0	HHDT
Utilities	Onsite truck	0.00	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	0.00	12.0	LDA,LDT1,LDT2
Demolition	Vendor	2.00	0.25	HHDT,MHDT
Demolition	Hauling	6.00	0.25	HHDT
Demolition	Onsite truck	0.00	0.00	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	0.00	12.0	LDA,LDT1,LDT2
Site Preparation	Vendor	2.00	0.25	HHDT,MHDT
Site Preparation	Hauling	2.00	0.25	HHDT
Site Preparation	Onsite truck	0.00	0.00	HHDT
Grading	—	—	—	—
Grading	Worker	0.00	12.0	LDA,LDT1,LDT2
Grading	Vendor	2.00	0.25	HHDT,MHDT
Grading	Hauling	36.0	0.25	HHDT
Grading	Onsite truck	0.00	—	HHDT
Building Construction Ph1	—	—	—	—
Building Construction Ph1	Worker	0.00	12.0	LDA,LDT1,LDT2
Building Construction Ph1	Vendor	6.00	0.25	HHDT,MHDT

Building Construction Ph1	Hauling	0.00	20.0	HHDT
Building Construction Ph1	Onsite truck	0.00	—	HHDT
Paving	—	—	—	—
Paving	Worker	0.00	12.0	LDA,LDT1,LDT2
Paving	Vendor	6.00	0.25	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	0.00	—	HHDT
Architectural Coating Ph1	—	—	—	—
Architectural Coating Ph1	Worker	0.00	12.0	LDA,LDT1,LDT2
Architectural Coating Ph1	Vendor	2.00	0.25	HHDT,MHDT
Architectural Coating Ph1	Hauling	0.00	20.0	HHDT
Architectural Coating Ph1	Onsite truck	0.00	—	HHDT
Building Construction Ph2	—	—	—	—
Building Construction Ph2	Worker	0.00	12.0	LDA,LDT1,LDT2
Building Construction Ph2	Vendor	6.00	0.25	HHDT,MHDT
Building Construction Ph2	Hauling	0.00	20.0	HHDT
Building Construction Ph2	Onsite truck	0.00	—	HHDT
Building Construction Ph3	—	—	—	—
Building Construction Ph3	Worker	0.00	12.0	LDA,LDT1,LDT2
Building Construction Ph3	Vendor	6.00	0.25	HHDT,MHDT
Building Construction Ph3	Hauling	0.00	20.0	HHDT
Building Construction Ph3	Onsite truck	0.00	—	HHDT
Building Construction Ph4	—	—	—	—
Building Construction Ph4	Worker	0.00	12.0	LDA,LDT1,LDT2
Building Construction Ph4	Vendor	6.00	0.25	HHDT,MHDT
Building Construction Ph4	Hauling	0.00	20.0	HHDT
Building Construction Ph4	Onsite truck	0.00	—	HHDT
Architectural Coating Ph2	—	—	—	—

Architectural Coating Ph2	Worker	0.00	12.0	LDA,LDT1,LDT2
Architectural Coating Ph2	Vendor	2.00	0.25	HHDT,MHDT
Architectural Coating Ph2	Hauling	0.00	20.0	HHDT
Architectural Coating Ph2	Onsite truck	0.00	—	HHDT
Architectural Coating Ph3	—	—	—	—
Architectural Coating Ph3	Worker	0.00	0.25	LDA,LDT1,LDT2
Architectural Coating Ph3	Vendor	2.00	0.25	HHDT,MHDT
Architectural Coating Ph3	Hauling	0.00	20.0	HHDT
Architectural Coating Ph3	Onsite truck	0.00	—	HHDT
Architectural Coating Ph4	—	—	—	—
Architectural Coating Ph4	Worker	0.00	12.0	LDA,LDT1,LDT2
Architectural Coating Ph4	Vendor	2.00	0.25	HHDT,MHDT
Architectural Coating Ph4	Hauling	0.00	20.0	HHDT
Architectural Coating Ph4	Onsite truck	0.00	—	HHDT
Utilities	—	—	—	—
Utilities	Worker	0.00	12.0	LDA,LDT1,LDT2
Utilities	Vendor	2.00	0.25	HHDT,MHDT
Utilities	Hauling	0.00	20.0	HHDT
Utilities	Onsite truck	0.00	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating Ph1	7,101	2,367	0.00	0.00	219

Architectural Coating Ph2	18,936	6,312	0.00	0.00	401
Architectural Coating Ph3	18,936	6,312	0.00	0.00	474
Architectural Coating Ph4	18,936	6,312	0.00	0.00	474

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	1,000	—
Site Preparation	0.00	0.00	15.0	0.00	—
Grading	12,950	0.00	90.0	0.00	—
Paving	0.00	0.00	0.00	0.00	1.05

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Single Family Housing	0.30	0%
Other Asphalt Surfaces	0.75	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2025	0.00	589	0.03	< 0.005
2026	154	589	0.03	< 0.005
2027	294	589	0.03	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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5.18.1.2. Mitigated

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

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	10.8	annual days of extreme heat
Extreme Precipitation	2.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	annual hectares burned

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

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

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

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

6.2. Initial Climate Risk Scores

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

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

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

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

6.3. Adjusted Climate Risk Scores

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

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	35.2

AQ-PM	40.4
AQ-DPM	72.3
Drinking Water	9.00
Lead Risk Housing	24.6
Pesticides	3.79
Toxic Releases	13.6
Traffic	78.7
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	77.5
Haz Waste Facilities/Generators	72.0
Impaired Water Bodies	58.7
Solid Waste	0.00
Sensitive Population	—
Asthma	4.26
Cardio-vascular	13.1
Low Birth Weights	84.2
Socioeconomic Factor Indicators	—
Education	41.2
Housing	60.9
Linguistic	37.7
Poverty	24.4
Unemployment	7.77

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—

Above Poverty	51.52059541
Employed	53.74053638
Median HI	62.06852303
Education	—
Bachelor's or higher	73.29654818
High school enrollment	100
Preschool enrollment	41.72975747
Transportation	—
Auto Access	71.35891184
Active commuting	51.99538047
Social	—
2-parent households	77.03066855
Voting	73.74566919
Neighborhood	—
Alcohol availability	61.11895291
Park access	53.31707943
Retail density	86.1157449
Supermarket access	59.7330938
Tree canopy	34.96727833
Housing	—
Homeownership	33.28628256
Housing habitability	50.05774413
Low-inc homeowner severe housing cost burden	37.03323495
Low-inc renter severe housing cost burden	54.86975491
Uncrowded housing	46.83690491
Health Outcomes	—
Insured adults	36.50712178
Arthritis	0.0

Asthma ER Admissions	96.9
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	35.6
Cognitively Disabled	96.9
Physically Disabled	71.5
Heart Attack ER Admissions	97.2
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	76.8
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	19.9
Elderly	34.9
English Speaking	58.3
Foreign-born	43.6

Outdoor Workers	54.3
Climate Change Adaptive Capacity	—
Impervious Surface Cover	34.8
Traffic Density	95.2
Traffic Access	23.0
Other Indices	—
Hardship	44.0
Other Decision Support	—
2016 Voting	90.2

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	28.0
Healthy Places Index Score for Project Location (b)	64.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Project-specific assumptions. 4.96 total developable area.
Construction: Construction Phases	Project Schedule ~ 21 months
Construction: Off-Road Equipment	Equipment added for utilities. Electric hookups during building construction and electric air compressors. Bldg construction equipment hours conserved to account for extended construction schedule.
Construction: Dust From Material Movement	12950 cy of import
Construction: Trips and VMT	Assumed even numbered trips. Removed non-diesel fueled vehicle trips and adjusted trip length to represent on-site emissions.
Construction: Architectural Coatings	Divided square footage by phase.
Operations: Vehicle Data	Based on Project LTA
Operations: Hearths	No woodburning devices or natural gas devices.
Operations: Energy Use	No natural gas

Appendix B

Health Risk Assessment Output File

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**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 4/21/2023
** File: C:\Users\enuno\OneDrive -
Dudek\Desktop\HARP2\HARP\Ocean_Bluff\OCEAN_BLUFF_CONST\OCEAN_BLUFF_CONST.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Users\enuno\OneDrive - Dudek\Desktop\HARP2\HARP\Ocean_Bluff\OCEAN
  MODELOPT DFAULT CONC
  AVERTIME 1 PERIOD
  URBANOPT 3276208 San_Diego_County
  POLLUTID PM_10
  RUNORNOT RUN
  ERRORFIL OCEAN_BLUFF_CONST.err
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC OFFROAD&TRUCKS
** PREFIX
** Length of Side = 10.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 10.00
** SZINIT = 4.65
** Nodes = 45
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** 474432.019, 3656543.426, 95.73, 5.00, 4.65
** 474431.769, 3656579.877, 92.39, 5.00, 4.65

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 ** 474359.866, 3656656.024, 93.31, 5.00, 4.65
 ** 474306.438, 3656658.770, 88.11, 5.00, 4.65
 ** 474270.986, 3656649.783, 86.26, 5.00, 4.65
 ** 474270.736, 3656620.322, 86.81, 5.00, 4.65
 ** 474284.468, 3656620.073, 90.00, 5.00, 4.65
 ** 474286.715, 3656620.073, 90.07, 5.00, 4.65
 ** 474298.698, 3656563.149, 92.47, 5.00, 4.65
 ** 474418.287, 3656554.661, 96.10, 5.00, 4.65
 ** 474420.035, 3656578.878, 95.96, 5.00, 4.65
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 ** 474284.967, 3656645.039, 89.38, 5.00, 4.65
 ** 474281.971, 3656643.042, 89.24, 5.00, 4.65
 ** 474281.721, 3656632.556, 89.44, 5.00, 4.65
 ** 474281.971, 3656628.062, 89.42, 5.00, 4.65
 ** 474294.704, 3656627.812, 90.04, 5.00, 4.65
 ** 474306.188, 3656574.384, 93.29, 5.00, 4.65
 ** 474406.553, 3656565.147, 95.95, 5.00, 4.65
 ** 474408.800, 3656579.627, 95.94, 5.00, 4.65
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 ** 474302.443, 3656643.042, 91.59, 5.00, 4.65
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 ** 474299.447, 3656635.552, 90.78, 5.00, 4.65
 ** 474303.442, 3656635.552, 91.85, 5.00, 4.65
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 ** 474337.396, 3656633.804, 93.38, 5.00, 4.65
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 ** 474361.863, 3656610.835, 94.82, 5.00, 4.65

**

LOCATION L0000001	VOLUME	474302.688	3656552.320	92.99
LOCATION L0000002	VOLUME	474312.664	3656551.634	93.57
LOCATION L0000003	VOLUME	474322.641	3656550.948	93.91
LOCATION L0000004	VOLUME	474332.617	3656550.262	94.25
LOCATION L0000005	VOLUME	474342.594	3656549.576	94.61
LOCATION L0000006	VOLUME	474352.570	3656548.890	95.00
LOCATION L0000007	VOLUME	474362.547	3656548.204	95.39

LOCATION	L0000008	VOLUME	474372.523	3656547.518	95.70
LOCATION	L0000009	VOLUME	474382.500	3656546.832	96.00
LOCATION	L0000010	VOLUME	474392.476	3656546.145	96.26
LOCATION	L0000011	VOLUME	474402.452	3656545.459	96.42
LOCATION	L0000012	VOLUME	474412.429	3656544.773	96.59
LOCATION	L0000013	VOLUME	474422.405	3656544.087	96.48
LOCATION	L0000014	VOLUME	474432.016	3656543.790	96.27
LOCATION	L0000015	VOLUME	474431.948	3656553.790	95.77
LOCATION	L0000016	VOLUME	474431.879	3656563.789	95.28
LOCATION	L0000017	VOLUME	474431.811	3656573.789	94.45
LOCATION	L0000018	VOLUME	474430.206	3656583.463	93.17
LOCATION	L0000019	VOLUME	474426.209	3656592.630	92.85
LOCATION	L0000020	VOLUME	474422.212	3656601.796	93.18
LOCATION	L0000021	VOLUME	474418.216	3656610.963	94.22
LOCATION	L0000022	VOLUME	474414.219	3656620.129	95.26
LOCATION	L0000023	VOLUME	474410.222	3656629.296	95.12
LOCATION	L0000024	VOLUME	474406.226	3656638.463	92.85
LOCATION	L0000025	VOLUME	474398.991	3656644.003	91.81
LOCATION	L0000026	VOLUME	474389.432	3656646.940	92.61
LOCATION	L0000027	VOLUME	474379.873	3656649.877	92.81
LOCATION	L0000028	VOLUME	474370.314	3656652.814	93.31
LOCATION	L0000029	VOLUME	474360.755	3656655.751	93.64
LOCATION	L0000030	VOLUME	474350.808	3656656.490	92.96
LOCATION	L0000031	VOLUME	474340.821	3656657.003	92.27
LOCATION	L0000032	VOLUME	474330.834	3656657.516	91.27
LOCATION	L0000033	VOLUME	474320.848	3656658.030	90.11
LOCATION	L0000034	VOLUME	474310.861	3656658.543	88.82
LOCATION	L0000035	VOLUME	474301.037	3656657.401	86.58
LOCATION	L0000036	VOLUME	474291.344	3656654.944	84.81
LOCATION	L0000037	VOLUME	474281.651	3656652.486	83.74
LOCATION	L0000038	VOLUME	474271.957	3656650.029	83.25
LOCATION	L0000039	VOLUME	474270.910	3656640.785	85.28
LOCATION	L0000040	VOLUME	474270.825	3656630.786	87.23
LOCATION	L0000041	VOLUME	474270.740	3656620.786	87.69
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LOCATION	L0000044	VOLUME	474289.507	3656606.808	91.30
LOCATION	L0000045	VOLUME	474291.567	3656597.022	91.79
LOCATION	L0000046	VOLUME	474293.627	3656587.237	92.10
LOCATION	L0000047	VOLUME	474295.688	3656577.451	92.41
LOCATION	L0000048	VOLUME	474297.748	3656567.666	92.65
LOCATION	L0000049	VOLUME	474304.070	3656562.768	93.02
LOCATION	L0000050	VOLUME	474314.044	3656562.060	93.53
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LOCATION	L0000052	VOLUME	474333.994	3656560.644	94.22
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LOCATION	L0000054	VOLUME	474353.944	3656559.228	94.99
LOCATION	L0000055	VOLUME	474363.919	3656558.520	95.38
LOCATION	L0000056	VOLUME	474373.894	3656557.812	95.64
LOCATION	L0000057	VOLUME	474383.869	3656557.104	95.90

LOCATION	L0000058	VOLUME	474393.844	3656556.396	96.11
LOCATION	L0000059	VOLUME	474403.819	3656555.688	96.24
LOCATION	L0000060	VOLUME	474413.793	3656554.980	96.37
LOCATION	L0000061	VOLUME	474418.683	3656560.142	96.09
LOCATION	L0000062	VOLUME	474419.403	3656570.116	95.76
LOCATION	L0000063	VOLUME	474419.494	3656579.966	95.24
LOCATION	L0000064	VOLUME	474415.038	3656588.918	95.73
LOCATION	L0000065	VOLUME	474410.582	3656597.870	95.56
LOCATION	L0000066	VOLUME	474406.126	3656606.823	95.41
LOCATION	L0000067	VOLUME	474401.670	3656615.775	95.27
LOCATION	L0000068	VOLUME	474397.214	3656624.727	95.15
LOCATION	L0000069	VOLUME	474392.758	3656633.680	94.78
LOCATION	L0000070	VOLUME	474383.495	3656637.125	94.27
LOCATION	L0000071	VOLUME	474374.023	3656640.330	94.04
LOCATION	L0000072	VOLUME	474364.550	3656643.535	94.12
LOCATION	L0000073	VOLUME	474354.849	3656645.583	93.63
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LOCATION	L0000075	VOLUME	474334.891	3656646.882	92.38
LOCATION	L0000076	VOLUME	474324.912	3656647.532	91.50
LOCATION	L0000077	VOLUME	474314.933	3656648.182	90.58
LOCATION	L0000078	VOLUME	474304.964	3656648.653	88.95
LOCATION	L0000079	VOLUME	474295.124	3656646.875	87.42
LOCATION	L0000080	VOLUME	474285.283	3656645.096	86.11
LOCATION	L0000081	VOLUME	474281.826	3656636.965	87.79
LOCATION	L0000082	VOLUME	474283.059	3656628.041	89.35
LOCATION	L0000083	VOLUME	474293.057	3656627.845	90.51
LOCATION	L0000084	VOLUME	474296.459	3656619.646	91.20
LOCATION	L0000085	VOLUME	474298.561	3656609.869	91.79
LOCATION	L0000086	VOLUME	474300.662	3656600.092	92.27
LOCATION	L0000087	VOLUME	474302.764	3656590.316	92.57
LOCATION	L0000088	VOLUME	474304.865	3656580.539	92.85
LOCATION	L0000089	VOLUME	474309.877	3656574.045	93.23
LOCATION	L0000090	VOLUME	474319.835	3656573.128	93.61
LOCATION	L0000091	VOLUME	474329.793	3656572.212	93.98
LOCATION	L0000092	VOLUME	474339.751	3656571.295	94.35
LOCATION	L0000093	VOLUME	474349.709	3656570.379	94.76
LOCATION	L0000094	VOLUME	474359.667	3656569.462	95.16
LOCATION	L0000095	VOLUME	474369.625	3656568.546	95.44
LOCATION	L0000096	VOLUME	474379.583	3656567.629	95.67
LOCATION	L0000097	VOLUME	474389.541	3656566.713	95.89
LOCATION	L0000098	VOLUME	474399.499	3656565.796	96.00
LOCATION	L0000099	VOLUME	474407.000	3656568.028	96.02
LOCATION	L0000100	VOLUME	474408.534	3656577.910	95.86
LOCATION	L0000101	VOLUME	474405.029	3656586.978	95.70
LOCATION	L0000102	VOLUME	474400.465	3656595.876	95.54
LOCATION	L0000103	VOLUME	474395.901	3656604.774	95.39
LOCATION	L0000104	VOLUME	474391.337	3656613.672	95.26
LOCATION	L0000105	VOLUME	474386.773	3656622.569	95.10
LOCATION	L0000106	VOLUME	474380.116	3656628.875	94.88
LOCATION	L0000107	VOLUME	474370.456	3656631.461	94.64

LOCATION	L0000108	VOLUME	474360.796	3656634.048	94.31
LOCATION	L0000109	VOLUME	474351.137	3656636.634	93.79
LOCATION	L0000110	VOLUME	474341.477	3656639.221	93.21
LOCATION	L0000111	VOLUME	474331.609	3656640.611	92.55
LOCATION	L0000112	VOLUME	474321.643	3656641.442	91.81
LOCATION	L0000113	VOLUME	474311.678	3656642.272	91.03
LOCATION	L0000114	VOLUME	474301.732	3656642.864	89.36
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LOCATION	L0000121	VOLUME	474313.343	3656592.311	93.09
LOCATION	L0000122	VOLUME	474315.575	3656582.564	93.32
LOCATION	L0000123	VOLUME	474325.176	3656581.168	93.67
LOCATION	L0000124	VOLUME	474335.126	3656580.166	94.03
LOCATION	L0000125	VOLUME	474345.076	3656579.165	94.44
LOCATION	L0000126	VOLUME	474355.025	3656578.163	94.87
LOCATION	L0000127	VOLUME	474364.975	3656577.162	95.26
LOCATION	L0000128	VOLUME	474374.925	3656576.160	95.47
LOCATION	L0000129	VOLUME	474384.875	3656575.159	95.68
LOCATION	L0000130	VOLUME	474392.944	3656576.617	95.77
LOCATION	L0000131	VOLUME	474393.593	3656586.333	95.64
LOCATION	L0000132	VOLUME	474389.145	3656595.289	95.48
LOCATION	L0000133	VOLUME	474384.697	3656604.246	95.29
LOCATION	L0000134	VOLUME	474380.249	3656613.202	95.09
LOCATION	L0000135	VOLUME	474375.754	3656622.108	94.88
LOCATION	L0000136	VOLUME	474366.546	3656626.010	94.63
LOCATION	L0000137	VOLUME	474357.120	3656629.237	94.25
LOCATION	L0000138	VOLUME	474347.377	3656631.493	93.81
LOCATION	L0000139	VOLUME	474337.635	3656633.749	93.32
LOCATION	L0000140	VOLUME	474327.674	3656634.596	92.78
LOCATION	L0000141	VOLUME	474317.707	3656635.407	92.20
LOCATION	L0000142	VOLUME	474317.390	3656627.471	92.58
LOCATION	L0000143	VOLUME	474319.174	3656617.631	92.84
LOCATION	L0000144	VOLUME	474320.958	3656607.792	93.09
LOCATION	L0000145	VOLUME	474322.742	3656597.952	93.32
LOCATION	L0000146	VOLUME	474328.425	3656592.076	93.60
LOCATION	L0000147	VOLUME	474338.293	3656590.453	93.97
LOCATION	L0000148	VOLUME	474348.160	3656588.830	94.43
LOCATION	L0000149	VOLUME	474358.027	3656587.207	94.88
LOCATION	L0000150	VOLUME	474367.895	3656585.583	95.22
LOCATION	L0000151	VOLUME	474377.762	3656583.960	95.42
LOCATION	L0000152	VOLUME	474378.715	3656589.185	95.38
LOCATION	L0000153	VOLUME	474374.603	3656598.300	95.19
LOCATION	L0000154	VOLUME	474370.490	3656607.416	94.99
LOCATION	L0000155	VOLUME	474366.378	3656616.531	94.78
LOCATION	L0000156	VOLUME	474356.705	3656618.990	94.39
LOCATION	L0000157	VOLUME	474347.004	3656621.416	93.93

LOCATION	L0000158	VOLUME	474337.302	3656623.841	93.47
LOCATION	L0000159	VOLUME	474328.530	3656625.241	93.09
LOCATION	L0000160	VOLUME	474329.988	3656615.348	93.30
LOCATION	L0000161	VOLUME	474331.446	3656605.455	93.49
LOCATION	L0000162	VOLUME	474338.670	3656601.228	93.81
LOCATION	L0000163	VOLUME	474348.536	3656599.597	94.29
LOCATION	L0000164	VOLUME	474358.402	3656597.967	94.77
LOCATION	L0000165	VOLUME	474361.997	3656603.591	94.86

** End of LINE VOLUME Source ID = SLINE1

** Source Parameters **

** LINE VOLUME Source ID = SLINE1

SRCPARAM	L0000001	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000002	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000003	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000004	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000005	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000006	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000007	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000008	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000009	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000010	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000011	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000012	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000013	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000014	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000015	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000016	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000017	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000018	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000019	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000020	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000021	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000022	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000023	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000024	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000025	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000026	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000027	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000028	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000029	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000030	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000031	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000032	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000033	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000034	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000035	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000036	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000037	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000038	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000039	0.0060606061	5.00	4.65	4.65

SRCPARAM	L0000140	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000141	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000142	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000143	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000144	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000145	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000146	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000147	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000148	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000149	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000150	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000151	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000152	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000153	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000154	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000155	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000156	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000157	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000158	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000159	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000160	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000161	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000162	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000163	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000164	0.0060606061	5.00	4.65	4.65
SRCPARAM	L0000165	0.0060606061	5.00	4.65	4.65

** -----

URBANSRC ALL

SRCGROUP ALL

SO FINISHED

**

** AERMOD Receptor Pathway

**

**

RE STARTING

INCLUDED OCEAN_BLUFF_CONST.rou

RE FINISHED

**

** AERMOD Meteorology Pathway

**

**

ME STARTING

SURFFILE ..\McClellanPalomar_2019_2021_v22112.SFC

PROFFILE ..\McClellanPalomar_2019_2021_v22112.PFL

SURFDATA 3177 2019

UAIRDATA 3190 2019

PROFBASE 92.0 METERS

ME FINISHED

**

** AERMOD Output Pathway

**

**

OU STARTING

RECTABLE ALLAVE 1ST

RECTABLE 1 1ST

** Auto-Generated Plotfiles

PLOTFILE 1 ALL 1ST OCEAN_BLUFF_CONST.AD\01H1GALL.PLT 31

PLOTFILE PERIOD ALL OCEAN_BLUFF_CONST.AD\PE00GALL.PLT 32

SUMMFILE OCEAN_BLUFF_CONST.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 451 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used 0.50

ME W187 451 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

*** SETUP Finishes Successfully ***

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** MODEL SETUP OPTIONS SUMMARY

** Model Options Selected:

- * Model Uses Regulatory DEFAULT Options
- * Model Is Setup For Calculation of Average CONCentration Values.
- * NO GAS DEPOSITION Data Provided.
- * NO PARTICLE DEPOSITION Data Provided.
- * Model Uses NO DRY DEPLETION. DDPLETE = F
- * Model Uses NO WET DEPLETION. WETDPLT = F
- * Stack-tip Downwash.
- * Model Accounts for ELEVated Terrain Effects.
- * Use Calms Processing Routine.
- * Use Missing Data Processing Routine.
- * No Exponential Decay.
- * Model Uses URBAN Dispersion Algorithm for the SBL for 165 Source(s),
for Total of 1 Urban Area(s):
Urban Population = 3276208.0 ; Urban Roughness Length = 1.000 m
- * Urban Roughness Length of 1.0 Meter Used.
- * ADJ_U* - Use ADJ_U* option for SBL in AERMET
- * CCVR_Sub - Meteorological data includes CCVR substitutions
- * TEMP_Sub - Meteorological data includes TEMP substitutions
- * Model Assumes No FLAGPOLE Receptor Heights.
- * The User Specified a Pollutant Type of: PM_10

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

**This Run Includes: 165 Source(s); 1 Source Group(s); and 2700
Receptor(s)

with: 0 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 165 VOLUME source(s)
and: 0 AREA type source(s)
and: 0 LINE source(s)
and: 0 RLINE/RLINEXT source(s)
and: 0 OPENPIT source(s)
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)
and: 0 SWPOINT source(s)

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

**The AERMET Input Meteorological Data Version Date: 22112

**Output Options Selected:

Model Outputs Tables of PERIOD Averages by Receptor
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE

Keyword)

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

Keyword)

Model Outputs Separate Summary File of High Ranked Values (SUMMFILE

Keyword)

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

Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 92.00 ; Decay
Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ;
Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.9 MB of RAM.

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: OCEAN_BLUFF_CONST.err

**File for Summary of Results: OCEAN_BLUFF_CONST.sum

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY		X	Y	(METERS)	(METERS)
ID		CATS.			(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY						

L0000001	0	0.60606E-02	474302.7	3656552.3	93.0	5.00	4.65	
4.65	YES							

L0000002	0	0.60606E-02	474312.7	3656551.6	93.6	5.00	4.65
4.65 YES							
L0000003	0	0.60606E-02	474322.6	3656550.9	93.9	5.00	4.65
4.65 YES							
L0000004	0	0.60606E-02	474332.6	3656550.3	94.2	5.00	4.65
4.65 YES							
L0000005	0	0.60606E-02	474342.6	3656549.6	94.6	5.00	4.65
4.65 YES							
L0000006	0	0.60606E-02	474352.6	3656548.9	95.0	5.00	4.65
4.65 YES							
L0000007	0	0.60606E-02	474362.5	3656548.2	95.4	5.00	4.65
4.65 YES							
L0000008	0	0.60606E-02	474372.5	3656547.5	95.7	5.00	4.65
4.65 YES							
L0000009	0	0.60606E-02	474382.5	3656546.8	96.0	5.00	4.65
4.65 YES							
L0000010	0	0.60606E-02	474392.5	3656546.1	96.3	5.00	4.65
4.65 YES							
L0000011	0	0.60606E-02	474402.5	3656545.5	96.4	5.00	4.65
4.65 YES							
L0000012	0	0.60606E-02	474412.4	3656544.8	96.6	5.00	4.65
4.65 YES							
L0000013	0	0.60606E-02	474422.4	3656544.1	96.5	5.00	4.65
4.65 YES							
L0000014	0	0.60606E-02	474432.0	3656543.8	96.3	5.00	4.65
4.65 YES							
L0000015	0	0.60606E-02	474431.9	3656553.8	95.8	5.00	4.65
4.65 YES							
L0000016	0	0.60606E-02	474431.9	3656563.8	95.3	5.00	4.65
4.65 YES							
L0000017	0	0.60606E-02	474431.8	3656573.8	94.5	5.00	4.65
4.65 YES							
L0000018	0	0.60606E-02	474430.2	3656583.5	93.2	5.00	4.65
4.65 YES							
L0000019	0	0.60606E-02	474426.2	3656592.6	92.8	5.00	4.65
4.65 YES							
L0000020	0	0.60606E-02	474422.2	3656601.8	93.2	5.00	4.65
4.65 YES							
L0000021	0	0.60606E-02	474418.2	3656611.0	94.2	5.00	4.65
4.65 YES							
L0000022	0	0.60606E-02	474414.2	3656620.1	95.3	5.00	4.65
4.65 YES							
L0000023	0	0.60606E-02	474410.2	3656629.3	95.1	5.00	4.65
4.65 YES							
L0000024	0	0.60606E-02	474406.2	3656638.5	92.8	5.00	4.65
4.65 YES							
L0000025	0	0.60606E-02	474399.0	3656644.0	91.8	5.00	4.65
4.65 YES							
L0000026	0	0.60606E-02	474389.4	3656646.9	92.6	5.00	4.65
4.65 YES							

L0000027	0	0.60606E-02	474379.9	3656649.9	92.8	5.00	4.65
4.65	YES						
L0000028	0	0.60606E-02	474370.3	3656652.8	93.3	5.00	4.65
4.65	YES						
L0000029	0	0.60606E-02	474360.8	3656655.8	93.6	5.00	4.65
4.65	YES						
L0000030	0	0.60606E-02	474350.8	3656656.5	93.0	5.00	4.65
4.65	YES						
L0000031	0	0.60606E-02	474340.8	3656657.0	92.3	5.00	4.65
4.65	YES						
L0000032	0	0.60606E-02	474330.8	3656657.5	91.3	5.00	4.65
4.65	YES						
L0000033	0	0.60606E-02	474320.8	3656658.0	90.1	5.00	4.65
4.65	YES						
L0000034	0	0.60606E-02	474310.9	3656658.5	88.8	5.00	4.65
4.65	YES						
L0000035	0	0.60606E-02	474301.0	3656657.4	86.6	5.00	4.65
4.65	YES						
L0000036	0	0.60606E-02	474291.3	3656654.9	84.8	5.00	4.65
4.65	YES						
L0000037	0	0.60606E-02	474281.7	3656652.5	83.7	5.00	4.65
4.65	YES						
L0000038	0	0.60606E-02	474272.0	3656650.0	83.2	5.00	4.65
4.65	YES						
L0000039	0	0.60606E-02	474270.9	3656640.8	85.3	5.00	4.65
4.65	YES						
L0000040	0	0.60606E-02	474270.8	3656630.8	87.2	5.00	4.65
4.65	YES						

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE	SOURCE	EMISSION	PART.	(GRAMS/SEC)	X	ELEV.	HEIGHT	SY
SZ	ID	SCALAR	VARY	CATS.	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY						

L0000041	0	0.60606E-02	474270.7	3656620.8	87.7	5.00	4.65
4.65	YES						

L0000042	0	0.60606E-02	474280.3	3656620.1	89.3	5.00	4.65
4.65	YES						
L0000043	0	0.60606E-02	474287.4	3656616.6	90.6	5.00	4.65
4.65	YES						
L0000044	0	0.60606E-02	474289.5	3656606.8	91.3	5.00	4.65
4.65	YES						
L0000045	0	0.60606E-02	474291.6	3656597.0	91.8	5.00	4.65
4.65	YES						
L0000046	0	0.60606E-02	474293.6	3656587.2	92.1	5.00	4.65
4.65	YES						
L0000047	0	0.60606E-02	474295.7	3656577.5	92.4	5.00	4.65
4.65	YES						
L0000048	0	0.60606E-02	474297.7	3656567.7	92.6	5.00	4.65
4.65	YES						
L0000049	0	0.60606E-02	474304.1	3656562.8	93.0	5.00	4.65
4.65	YES						
L0000050	0	0.60606E-02	474314.0	3656562.1	93.5	5.00	4.65
4.65	YES						
L0000051	0	0.60606E-02	474324.0	3656561.4	93.9	5.00	4.65
4.65	YES						
L0000052	0	0.60606E-02	474334.0	3656560.6	94.2	5.00	4.65
4.65	YES						
L0000053	0	0.60606E-02	474344.0	3656559.9	94.6	5.00	4.65
4.65	YES						
L0000054	0	0.60606E-02	474353.9	3656559.2	95.0	5.00	4.65
4.65	YES						
L0000055	0	0.60606E-02	474363.9	3656558.5	95.4	5.00	4.65
4.65	YES						
L0000056	0	0.60606E-02	474373.9	3656557.8	95.6	5.00	4.65
4.65	YES						
L0000057	0	0.60606E-02	474383.9	3656557.1	95.9	5.00	4.65
4.65	YES						
L0000058	0	0.60606E-02	474393.8	3656556.4	96.1	5.00	4.65
4.65	YES						
L0000059	0	0.60606E-02	474403.8	3656555.7	96.2	5.00	4.65
4.65	YES						
L0000060	0	0.60606E-02	474413.8	3656555.0	96.4	5.00	4.65
4.65	YES						
L0000061	0	0.60606E-02	474418.7	3656560.1	96.1	5.00	4.65
4.65	YES						
L0000062	0	0.60606E-02	474419.4	3656570.1	95.8	5.00	4.65
4.65	YES						
L0000063	0	0.60606E-02	474419.5	3656580.0	95.2	5.00	4.65
4.65	YES						
L0000064	0	0.60606E-02	474415.0	3656588.9	95.7	5.00	4.65
4.65	YES						
L0000065	0	0.60606E-02	474410.6	3656597.9	95.6	5.00	4.65
4.65	YES						
L0000066	0	0.60606E-02	474406.1	3656606.8	95.4	5.00	4.65
4.65	YES						

L0000067	0	0.60606E-02	474401.7	3656615.8	95.3	5.00	4.65
4.65	YES						
L0000068	0	0.60606E-02	474397.2	3656624.7	95.1	5.00	4.65
4.65	YES						
L0000069	0	0.60606E-02	474392.8	3656633.7	94.8	5.00	4.65
4.65	YES						
L0000070	0	0.60606E-02	474383.5	3656637.1	94.3	5.00	4.65
4.65	YES						
L0000071	0	0.60606E-02	474374.0	3656640.3	94.0	5.00	4.65
4.65	YES						
L0000072	0	0.60606E-02	474364.5	3656643.5	94.1	5.00	4.65
4.65	YES						
L0000073	0	0.60606E-02	474354.8	3656645.6	93.6	5.00	4.65
4.65	YES						
L0000074	0	0.60606E-02	474344.9	3656646.2	93.0	5.00	4.65
4.65	YES						
L0000075	0	0.60606E-02	474334.9	3656646.9	92.4	5.00	4.65
4.65	YES						
L0000076	0	0.60606E-02	474324.9	3656647.5	91.5	5.00	4.65
4.65	YES						
L0000077	0	0.60606E-02	474314.9	3656648.2	90.6	5.00	4.65
4.65	YES						
L0000078	0	0.60606E-02	474305.0	3656648.7	89.0	5.00	4.65
4.65	YES						
L0000079	0	0.60606E-02	474295.1	3656646.9	87.4	5.00	4.65
4.65	YES						
L0000080	0	0.60606E-02	474285.3	3656645.1	86.1	5.00	4.65
4.65	YES						

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE	SOURCE	EMISSION	PART.	(GRAMS/SEC)	X	ELEV.	HEIGHT	SY
SZ	ID	SCALAR	VARY	CATS.	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY						

L0000081	0	0.60606E-02	474281.8	3656637.0	87.8	5.00	4.65
4.65	YES						

L0000082	0	0.60606E-02	474283.1	3656628.0	89.3	5.00	4.65
4.65 YES							
L0000083	0	0.60606E-02	474293.1	3656627.8	90.5	5.00	4.65
4.65 YES							
L0000084	0	0.60606E-02	474296.5	3656619.6	91.2	5.00	4.65
4.65 YES							
L0000085	0	0.60606E-02	474298.6	3656609.9	91.8	5.00	4.65
4.65 YES							
L0000086	0	0.60606E-02	474300.7	3656600.1	92.3	5.00	4.65
4.65 YES							
L0000087	0	0.60606E-02	474302.8	3656590.3	92.6	5.00	4.65
4.65 YES							
L0000088	0	0.60606E-02	474304.9	3656580.5	92.8	5.00	4.65
4.65 YES							
L0000089	0	0.60606E-02	474309.9	3656574.0	93.2	5.00	4.65
4.65 YES							
L0000090	0	0.60606E-02	474319.8	3656573.1	93.6	5.00	4.65
4.65 YES							
L0000091	0	0.60606E-02	474329.8	3656572.2	94.0	5.00	4.65
4.65 YES							
L0000092	0	0.60606E-02	474339.8	3656571.3	94.3	5.00	4.65
4.65 YES							
L0000093	0	0.60606E-02	474349.7	3656570.4	94.8	5.00	4.65
4.65 YES							
L0000094	0	0.60606E-02	474359.7	3656569.5	95.2	5.00	4.65
4.65 YES							
L0000095	0	0.60606E-02	474369.6	3656568.5	95.4	5.00	4.65
4.65 YES							
L0000096	0	0.60606E-02	474379.6	3656567.6	95.7	5.00	4.65
4.65 YES							
L0000097	0	0.60606E-02	474389.5	3656566.7	95.9	5.00	4.65
4.65 YES							
L0000098	0	0.60606E-02	474399.5	3656565.8	96.0	5.00	4.65
4.65 YES							
L0000099	0	0.60606E-02	474407.0	3656568.0	96.0	5.00	4.65
4.65 YES							
L0000100	0	0.60606E-02	474408.5	3656577.9	95.9	5.00	4.65
4.65 YES							
L0000101	0	0.60606E-02	474405.0	3656587.0	95.7	5.00	4.65
4.65 YES							
L0000102	0	0.60606E-02	474400.5	3656595.9	95.5	5.00	4.65
4.65 YES							
L0000103	0	0.60606E-02	474395.9	3656604.8	95.4	5.00	4.65
4.65 YES							
L0000104	0	0.60606E-02	474391.3	3656613.7	95.3	5.00	4.65
4.65 YES							
L0000105	0	0.60606E-02	474386.8	3656622.6	95.1	5.00	4.65
4.65 YES							
L0000106	0	0.60606E-02	474380.1	3656628.9	94.9	5.00	4.65
4.65 YES							

L0000107	0	0.60606E-02	474370.5	3656631.5	94.6	5.00	4.65
4.65	YES						
L0000108	0	0.60606E-02	474360.8	3656634.0	94.3	5.00	4.65
4.65	YES						
L0000109	0	0.60606E-02	474351.1	3656636.6	93.8	5.00	4.65
4.65	YES						
L0000110	0	0.60606E-02	474341.5	3656639.2	93.2	5.00	4.65
4.65	YES						
L0000111	0	0.60606E-02	474331.6	3656640.6	92.5	5.00	4.65
4.65	YES						
L0000112	0	0.60606E-02	474321.6	3656641.4	91.8	5.00	4.65
4.65	YES						
L0000113	0	0.60606E-02	474311.7	3656642.3	91.0	5.00	4.65
4.65	YES						
L0000114	0	0.60606E-02	474301.7	3656642.9	89.4	5.00	4.65
4.65	YES						
L0000115	0	0.60606E-02	474292.4	3656640.1	88.5	5.00	4.65
4.65	YES						
L0000116	0	0.60606E-02	474297.8	3656635.7	90.2	5.00	4.65
4.65	YES						
L0000117	0	0.60606E-02	474304.4	3656631.3	91.5	5.00	4.65
4.65	YES						
L0000118	0	0.60606E-02	474306.6	3656621.6	92.0	5.00	4.65
4.65	YES						
L0000119	0	0.60606E-02	474308.9	3656611.8	92.5	5.00	4.65
4.65	YES						
L0000120	0	0.60606E-02	474311.1	3656602.1	92.9	5.00	4.65
4.65	YES						

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SOURCE	SOURCE	EMISSION	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
SZ	ID	SCALAR	VARY	CATS.	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY							

L0000121	0	0.60606E-02	474313.3	3656592.3	93.1	5.00	4.65
4.65	YES						

L0000122	0	0.60606E-02	474315.6	3656582.6	93.3	5.00	4.65
4.65 YES							
L0000123	0	0.60606E-02	474325.2	3656581.2	93.7	5.00	4.65
4.65 YES							
L0000124	0	0.60606E-02	474335.1	3656580.2	94.0	5.00	4.65
4.65 YES							
L0000125	0	0.60606E-02	474345.1	3656579.2	94.4	5.00	4.65
4.65 YES							
L0000126	0	0.60606E-02	474355.0	3656578.2	94.9	5.00	4.65
4.65 YES							
L0000127	0	0.60606E-02	474365.0	3656577.2	95.3	5.00	4.65
4.65 YES							
L0000128	0	0.60606E-02	474374.9	3656576.2	95.5	5.00	4.65
4.65 YES							
L0000129	0	0.60606E-02	474384.9	3656575.2	95.7	5.00	4.65
4.65 YES							
L0000130	0	0.60606E-02	474392.9	3656576.6	95.8	5.00	4.65
4.65 YES							
L0000131	0	0.60606E-02	474393.6	3656586.3	95.6	5.00	4.65
4.65 YES							
L0000132	0	0.60606E-02	474389.1	3656595.3	95.5	5.00	4.65
4.65 YES							
L0000133	0	0.60606E-02	474384.7	3656604.2	95.3	5.00	4.65
4.65 YES							
L0000134	0	0.60606E-02	474380.2	3656613.2	95.1	5.00	4.65
4.65 YES							
L0000135	0	0.60606E-02	474375.8	3656622.1	94.9	5.00	4.65
4.65 YES							
L0000136	0	0.60606E-02	474366.5	3656626.0	94.6	5.00	4.65
4.65 YES							
L0000137	0	0.60606E-02	474357.1	3656629.2	94.2	5.00	4.65
4.65 YES							
L0000138	0	0.60606E-02	474347.4	3656631.5	93.8	5.00	4.65
4.65 YES							
L0000139	0	0.60606E-02	474337.6	3656633.7	93.3	5.00	4.65
4.65 YES							
L0000140	0	0.60606E-02	474327.7	3656634.6	92.8	5.00	4.65
4.65 YES							
L0000141	0	0.60606E-02	474317.7	3656635.4	92.2	5.00	4.65
4.65 YES							
L0000142	0	0.60606E-02	474317.4	3656627.5	92.6	5.00	4.65
4.65 YES							
L0000143	0	0.60606E-02	474319.2	3656617.6	92.8	5.00	4.65
4.65 YES							
L0000144	0	0.60606E-02	474321.0	3656607.8	93.1	5.00	4.65
4.65 YES							
L0000145	0	0.60606E-02	474322.7	3656598.0	93.3	5.00	4.65
4.65 YES							
L0000146	0	0.60606E-02	474328.4	3656592.1	93.6	5.00	4.65
4.65 YES							

L0000147	0	0.60606E-02	474338.3	3656590.5	94.0	5.00	4.65
4.65	YES						
L0000148	0	0.60606E-02	474348.2	3656588.8	94.4	5.00	4.65
4.65	YES						
L0000149	0	0.60606E-02	474358.0	3656587.2	94.9	5.00	4.65
4.65	YES						
L0000150	0	0.60606E-02	474367.9	3656585.6	95.2	5.00	4.65
4.65	YES						
L0000151	0	0.60606E-02	474377.8	3656584.0	95.4	5.00	4.65
4.65	YES						
L0000152	0	0.60606E-02	474378.7	3656589.2	95.4	5.00	4.65
4.65	YES						
L0000153	0	0.60606E-02	474374.6	3656598.3	95.2	5.00	4.65
4.65	YES						
L0000154	0	0.60606E-02	474370.5	3656607.4	95.0	5.00	4.65
4.65	YES						
L0000155	0	0.60606E-02	474366.4	3656616.5	94.8	5.00	4.65
4.65	YES						
L0000156	0	0.60606E-02	474356.7	3656619.0	94.4	5.00	4.65
4.65	YES						
L0000157	0	0.60606E-02	474347.0	3656621.4	93.9	5.00	4.65
4.65	YES						
L0000158	0	0.60606E-02	474337.3	3656623.8	93.5	5.00	4.65
4.65	YES						
L0000159	0	0.60606E-02	474328.5	3656625.2	93.1	5.00	4.65
4.65	YES						
L0000160	0	0.60606E-02	474330.0	3656615.3	93.3	5.00	4.65
4.65	YES						

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE	SOURCE	EMISSION	PART.	(GRAMS/SEC)	X	ELEV.	HEIGHT	SY
SZ	ID	SCALAR	VARY	CATS.	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY						

L0000161	0	0.60606E-02	474331.4	3656605.5	93.5	5.00	4.65
4.65	YES						

L0000162	0	0.60606E-02	474338.7	3656601.2	93.8	5.00	4.65
4.65	YES						
L0000163	0	0.60606E-02	474348.5	3656599.6	94.3	5.00	4.65
4.65	YES						
L0000164	0	0.60606E-02	474358.4	3656598.0	94.8	5.00	4.65
4.65	YES						
L0000165	0	0.60606E-02	474362.0	3656603.6	94.9	5.00	4.65
4.65	YES						

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs					
-----	-----					
ALL	L0000001	, L0000002	, L0000003	, L0000004	, L0000005	,
L0000006	, L0000007	, L0000008	,			
	L0000009	, L0000010	, L0000011	, L0000012	, L0000013	,
L0000014	, L0000015	, L0000016	,			
	L0000017	, L0000018	, L0000019	, L0000020	, L0000021	,
L0000022	, L0000023	, L0000024	,			
	L0000025	, L0000026	, L0000027	, L0000028	, L0000029	,
L0000030	, L0000031	, L0000032	,			
	L0000033	, L0000034	, L0000035	, L0000036	, L0000037	,
L0000038	, L0000039	, L0000040	,			
	L0000041	, L0000042	, L0000043	, L0000044	, L0000045	,
L0000046	, L0000047	, L0000048	,			
	L0000049	, L0000050	, L0000051	, L0000052	, L0000053	,
L0000054	, L0000055	, L0000056	,			
	L0000057	, L0000058	, L0000059	, L0000060	, L0000061	,
L0000062	, L0000063	, L0000064	,			
	L0000065	, L0000066	, L0000067	, L0000068	, L0000069	,
L0000070	, L0000071	, L0000072	,			

L0000078 L0000073 , L0000074 , L0000075 , L0000076 , L0000077 ,
 , L0000079 , L0000080 ,

 L0000086 L0000081 , L0000082 , L0000083 , L0000084 , L0000085 ,
 , L0000087 , L0000088 ,

 L0000094 L0000089 , L0000090 , L0000091 , L0000092 , L0000093 ,
 , L0000095 , L0000096 ,

 L0000102 L0000097 , L0000098 , L0000099 , L0000100 , L0000101 ,
 , L0000103 , L0000104 ,

 L0000110 L0000105 , L0000106 , L0000107 , L0000108 , L0000109 ,
 , L0000111 , L0000112 ,

 L0000118 L0000113 , L0000114 , L0000115 , L0000116 , L0000117 ,
 , L0000119 , L0000120 ,

 L0000126 L0000121 , L0000122 , L0000123 , L0000124 , L0000125 ,
 , L0000127 , L0000128 ,

 L0000134 L0000129 , L0000130 , L0000131 , L0000132 , L0000133 ,
 , L0000135 , L0000136 ,

 L0000142 L0000137 , L0000138 , L0000139 , L0000140 , L0000141 ,
 , L0000143 , L0000144 ,

 L0000150 L0000145 , L0000146 , L0000147 , L0000148 , L0000149 ,
 , L0000151 , L0000152 ,

 L0000158 L0000153 , L0000154 , L0000155 , L0000156 , L0000157 ,
 , L0000159 , L0000160 ,

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID

SOURCE IDs

 L0000161 , L0000162 , L0000163 , L0000164 , L0000165 ,
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES

URBAN ID	URBAN POP	SOURCE IDs			
-----	-----	-----	-----	-----	-----
L000005 L000008	3276208. , L000006 ,	L000001 , L000007	, L000002 ,	L000003 ,	L000004 ,
L000014	L000009 , L000015	, L000010 , L000016	, L000011 ,	L000012 ,	L000013 ,
L000022	L000017 , L000023	, L000018 , L000024	, L000019 ,	L000020 ,	L000021 ,
L000030	L000025 , L000031	, L000026 , L000032	, L000027 ,	L000028 ,	L000029 ,
L000038	L000033 , L000039	, L000034 , L000040	, L000035 ,	L000036 ,	L000037 ,
L000046	L000041 , L000047	, L000042 , L000048	, L000043 ,	L000044 ,	L000045 ,
L000054	L000049 , L000055	, L000050 , L000056	, L000051 ,	L000052 ,	L000053 ,
L000062	L000057 , L000063	, L000058 , L000064	, L000059 ,	L000060 ,	L000061 ,
L000070	L000065 , L000071	, L000066 , L000072	, L000067 ,	L000068 ,	L000069 ,
L000078	L000073 , L000079	, L000074 , L000080	, L000075 ,	L000076 ,	L000077 ,
L000086	L000081 , L000087	, L000082 , L000088	, L000083 ,	L000084 ,	L000085 ,
L000094	L000089 , L000095	, L000090 , L000096	, L000091 ,	L000092 ,	L000093 ,

L0000102 L0000097 , L0000098 , L0000099 , L0000100 , L0000101 ,
 , L0000103 , L0000104 ,

 L0000110 L0000105 , L0000106 , L0000107 , L0000108 , L0000109 ,
 , L0000111 , L0000112 ,

 L0000118 L0000113 , L0000114 , L0000115 , L0000116 , L0000117 ,
 , L0000119 , L0000120 ,

 L0000126 L0000121 , L0000122 , L0000123 , L0000124 , L0000125 ,
 , L0000127 , L0000128 ,

 L0000134 L0000129 , L0000130 , L0000131 , L0000132 , L0000133 ,
 , L0000135 , L0000136 ,

 L0000142 L0000137 , L0000138 , L0000139 , L0000140 , L0000141 ,
 , L0000143 , L0000144 ,

 L0000150 L0000145 , L0000146 , L0000147 , L0000148 , L0000149 ,
 , L0000151 , L0000152 ,

 L0000158 L0000153 , L0000154 , L0000155 , L0000156 , L0000157 ,
 , L0000159 , L0000160 ,

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES

URBAN ID	URBAN POP	SOURCE IDs
-----	-----	-----

 L0000161 , L0000162 , L0000163 , L0000164 , L0000165 ,
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

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

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

474154.8, 474193.1, 474231.4, 474269.7, 474307.9, 474346.2, 474384.5,
474422.8, 474461.0, 474499.3,
474537.6, 474575.9, 474614.2, 474652.5, 474690.7, 474729.0, 474767.3,
474805.6, 474843.8, 474882.1,
474920.4,

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

3655616.0, 3655661.7, 3655707.4, 3655753.1, 3655798.8, 3655844.5, 3655890.2,
3655935.9, 3655981.6, 3656027.3,
3656073.0, 3656118.7, 3656164.4, 3656210.1, 3656255.8, 3656301.5, 3656347.2,
3656392.9, 3656438.6, 3656484.3,
3656530.0,

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	474154.81	474193.09	474231.37	474269.65	474307.93
474346.21	474384.49	474422.77	474461.05		

3656529.97	77.40	80.90	84.90	90.80	93.60
94.90	96.10	96.50	86.40		
3656484.27	76.10	77.90	82.80	90.60	93.30
94.10	95.10	95.60	91.10		
3656438.57	75.80	77.70	83.40	89.20	91.50
93.50	95.50	95.30	94.80		
3656392.87	76.10	77.70	84.40	89.10	92.20
93.70	95.60	95.60	95.40		
3656347.17	78.20	82.70	87.60	90.20	91.90
93.30	95.00	95.50	94.10		

3656301.47	|	72.80	82.20	86.20	89.20	91.90
93.50	|	94.50	95.20	95.80		
3656255.77	|	79.50	81.50	86.00	88.50	92.00
93.10	|	94.80	95.10	96.10		
3656210.07	|	81.50	81.90	87.30	89.20	92.00
93.60	|	95.20	95.40	96.50		
3656164.37	|	81.20	82.40	87.00	88.70	90.80
92.60	|	95.10	95.80	96.90		
3656118.67	|	81.10	83.30	85.60	87.90	90.30
91.90	|	94.70	95.70	96.60		
3656072.97	|	80.70	82.80	85.70	87.10	89.90
91.60	|	94.70	95.20	95.80		
3656027.27	|	81.10	82.80	85.10	87.30	90.00
91.40	|	93.40	94.50	95.10		
3655981.57	|	80.60	82.30	84.30	86.40	88.70
90.50	|	92.50	93.80	94.80		
3655935.87	|	80.30	81.60	83.10	85.30	87.30
89.90	|	91.40	93.40	94.90		
3655890.17	|	79.20	80.60	82.00	84.20	86.20
88.50	|	91.10	92.90	94.60		
3655844.47	|	78.70	79.80	81.30	83.00	84.90
87.60	|	90.40	92.00	94.00		
3655798.77	|	78.20	79.10	80.30	81.70	83.70
86.70	|	88.40	91.40	93.30		
3655753.07	|	77.50	78.30	79.30	80.60	82.50
84.90	|	87.20	89.60	92.40		
3655707.37	|	76.20	76.50	77.30	77.90	78.60
83.50	|	83.50	86.00	91.10		
3655661.67	|	74.70	76.00	76.40	77.20	77.80
83.50		83.70	85.20	89.70		
3655615.97		72.00	73.50	76.10	76.90	77.70
78.60		80.90	85.10	85.80		

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)				X-COORD (METERS)	
474690.73	474729.01	474767.29	474805.57	474499.33	474537.61
				474575.89	474614.17
					474652.45

3656529.97	|	76.30	72.20	72.30	74.80	79.10
84.30		89.60	94.90	99.20		
3656484.27	|	78.50	73.40	73.70	76.00	79.30
85.50		90.20	95.20	98.40		
3656438.57	|	79.90	73.80	74.00	78.10	80.10
84.20		93.00	98.40	99.60		
3656392.87	|	81.40	74.20	73.60	78.50	83.10
84.40		92.80	97.70	99.80		
3656347.17	|	85.00	77.80	81.90	84.30	85.40
87.30		89.30	91.50	94.60		
3656301.47	|	91.70	81.90	82.30	86.10	87.50
89.00		91.60	93.90	96.20		
3656255.77	|	95.40	85.40	81.50	85.00	87.60
89.80		93.00	95.50	96.70		
3656210.07	|	95.80	88.40	78.70	80.00	86.10
93.70		97.00	97.50	97.60		
3656164.37	|	95.40	89.90	81.80	80.00	85.70
92.10		97.10	98.40	99.10		
3656118.67	|	96.20	93.20	86.70	80.80	84.60
90.30		96.10	98.10	99.50		
3656072.97	|	96.10	95.20	90.40	82.20	84.10
89.00		94.60	98.30	99.30		
3656027.27	|	95.80	96.00	95.10	87.50	83.80
88.80		93.20	98.40	99.10		
3655981.57	|	96.10	97.20	97.40	93.10	86.60
87.40		94.10	98.20	99.10		
3655935.87	|	96.10	98.10	97.30	96.00	94.00
89.60		93.90	98.50	99.20		
3655890.17	|	96.00	98.00	97.50	97.30	96.90
96.40		94.40	98.40	99.40		
3655844.47	|	95.20	97.00	97.60	97.70	97.20
97.20		95.60	98.50	99.20		
3655798.77	|	94.60	96.40	97.50	97.80	97.60
97.70		98.20	99.10	99.40		
3655753.07	|	94.40	95.80	97.10	98.40	98.60
98.40		98.50	98.80	99.40		
3655707.37	|	92.30	95.20	97.10	98.90	99.20
99.00		98.60	98.90	99.60		
3655661.67	|	92.50	94.60	96.10	98.20	99.30
99.30		98.90	99.10	99.90		
3655615.97		88.80	94.20	95.50	96.90	99.30
99.40		99.10	99.50	100.00		

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	474843.85	474882.13	474920.41	X-COORD (METERS)
3656529.97	102.30	104.40	109.50	
3656484.27	101.60	104.30	107.80	
3656438.57	101.50	104.20	106.50	
3656392.87	101.10	103.50	103.90	
3656347.17	97.10	99.80	102.00	
3656301.47	98.90	101.60	104.90	
3656255.77	99.40	101.40	105.10	
3656210.07	100.00	102.10	104.30	
3656164.37	100.80	102.70	104.40	
3656118.67	100.50	101.80	103.80	
3656072.97	99.80	100.40	102.90	
3656027.27	99.60	100.30	102.70	
3655981.57	99.60	100.20	102.50	
3655935.87	100.10	101.50	102.90	
3655890.17	100.30	102.00	103.10	
3655844.47	100.00	101.30	102.70	
3655798.77	99.90	100.90	103.20	
3655753.07	100.60	102.20	103.50	
3655707.37	100.40	101.60	103.40	
3655661.67	101.00	102.10	103.30	
3655615.97	101.10	102.00	103.00	

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	474154.81	474193.09	474231.37	474269.65	474307.93	X-COORD (METERS)
474346.21	474384.49	474422.77	474461.05			

3656529.97	|	94.30	94.30	94.30	90.80	93.60
94.90		96.10	96.50	96.70		
3656484.27	|	94.60	96.00	94.60	90.60	93.30
94.10		95.10	95.60	96.40		
3656438.57	|	94.30	96.00	94.30	89.20	91.50
95.60		95.50	95.30	94.80		
3656392.87	|	92.60	96.00	92.60	89.10	92.20
96.00		95.60	95.60	95.40		
3656347.17	|	89.90	89.90	87.60	90.20	91.90
95.20		95.00	95.50	94.10		
3656301.47	|	96.00	89.90	89.90	89.20	91.90
93.50		94.50	95.20	95.80		
3656255.77	|	79.50	87.60	86.00	90.30	92.00
93.10		94.80	95.10	96.10		
3656210.07	|	81.50	89.30	87.30	89.20	92.00
93.60		95.20	95.40	96.50		
3656164.37	|	81.20	87.60	87.00	88.70	90.80
95.20		95.10	95.80	96.90		
3656118.67	|	81.10	83.30	85.60	87.90	90.30
91.90		94.70	95.70	96.60		
3656072.97	|	80.70	82.80	85.70	87.10	89.90
91.60		95.40	95.20	95.80		
3656027.27	|	81.10	82.80	85.10	87.30	90.00
91.40		93.40	94.50	95.10		
3655981.57	|	80.60	82.30	84.30	86.40	88.70
90.50		92.50	93.80	94.80		
3655935.87	|	80.30	81.60	83.10	85.30	87.30
89.90		91.40	93.40	94.90		
3655890.17	|	79.20	80.60	82.00	86.20	86.20
88.50		91.10	92.90	94.60		
3655844.47	|	78.70	79.80	81.30	83.00	84.90
87.60		90.40	92.00	94.00		
3655798.77	|	78.20	79.10	80.30	81.70	83.70
86.70		88.40	91.40	93.30		
3655753.07	|	77.50	78.30	79.30	80.60	82.50
84.90		87.20	89.60	92.40		
3655707.37	|	76.20	76.50	77.30	77.90	85.10
83.50		92.50	94.10	91.10		
3655661.67	|	74.70	76.00	76.40	77.20	83.60
83.50		83.70	92.20	91.60		
3655615.97		72.00	73.50	76.10	76.90	83.40
83.60		92.20	85.10	94.90		

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)					X-COORD (METERS)	
	474499.33	474537.61	474575.89	474614.17	474652.45	
474690.73	474729.01	474767.29	474805.57			

3656529.97 |		96.70	120.60	121.70	121.70	121.70
121.70	121.70		120.60	120.20		
3656484.27 |		96.70	99.70	121.70	121.70	121.70
121.70	120.20		96.90	98.40		
3656438.57 |		96.70	99.70	120.60	120.20	121.70
121.70	99.70		98.40	99.60		
3656392.87 |		96.40	99.70	102.80	100.70	99.90
104.40	99.70		99.70	99.80		
3656347.17 |		96.10	97.00	96.30	87.20	99.70
99.80	99.90		113.90	113.90		
3656301.47 |		95.80	97.00	96.50	87.90	87.50
89.00	91.60		93.90	96.20		
3656255.77 |		95.40	97.00	97.00	96.60	97.10
97.10	96.60		95.50	96.70		
3656210.07 |		95.80	97.00	98.10	98.70	98.10
95.50	97.00		97.50	97.60		
3656164.37 |		95.40	96.00	97.30	99.10	98.70
97.10	97.10		98.40	99.10		
3656118.67 |		96.20	95.80	97.30	98.70	98.70
97.60	96.10		98.10	99.50		
3656072.97 |		96.10	95.20	97.30	98.70	99.30
98.70	97.60		98.30	99.30		
3656027.27 |		95.80	96.00	97.30	98.20	99.10
98.70	98.70		98.40	99.10		
3655981.57 |		96.10	97.20	97.40	97.30	98.70
99.10	98.40		98.20	99.10		
3655935.87 |		96.10	98.10	97.30	96.00	96.50
98.70	98.70		98.50	99.20		
3655890.17 |		96.00	98.00	97.50	97.30	96.90
96.40	98.70		98.40	99.40		
3655844.47 |		95.20	97.00	97.60	97.70	97.20
97.20	98.60		98.50	99.20		
3655798.77 |		94.60	96.40	97.50	97.80	97.60
97.70	98.20		99.10	99.40		
3655753.07 |		94.40	95.80	97.10	98.40	98.60
98.40	98.50		98.80	99.40		
3655707.37 |		92.30	95.20	97.10	98.90	99.20
99.00	98.60		98.90	99.60		

3655661.67	92.50	94.60	96.10	98.20	99.30
99.30	98.90	99.10	99.90		
3655615.97	94.90	94.20	95.50	96.90	99.30
99.40	99.10	99.50	100.00		

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)		
	474843.85	474882.13	474920.41

3656529.97	120.60	121.70	120.20
3656484.27	101.60	120.20	113.10
3656438.57	101.50	104.20	106.50
3656392.87	101.10	103.50	115.00
3656347.17	115.00	115.30	115.30
3656301.47	101.00	114.80	114.80
3656255.77	101.20	112.40	109.20
3656210.07	101.70	102.10	104.30
3656164.37	100.80	102.70	104.40
3656118.67	100.50	101.80	103.80
3656072.97	99.80	100.40	106.90
3656027.27	99.60	100.30	106.90
3655981.57	99.60	100.20	106.60
3655935.87	100.10	101.50	102.90
3655890.17	100.30	102.00	103.10
3655844.47	100.00	101.30	102.70
3655798.77	99.90	100.90	103.20
3655753.07	100.60	102.20	103.50
3655707.37	100.40	101.60	103.40
3655661.67	101.00	102.10	103.30
3655615.97	101.10	102.00	103.00

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART

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

474167.1, 474186.2, 474205.2, 474224.3, 474243.4, 474262.5, 474281.5,
474300.6, 474319.7, 474338.7,
474357.8, 474376.9, 474396.0, 474415.0, 474434.1, 474453.2, 474472.2,
474491.3, 474510.4, 474529.4,
474548.5,

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

3656742.5, 3656772.5, 3656802.4, 3656832.4, 3656862.3, 3656892.3, 3656922.3,
3656952.2, 3656982.2, 3657012.1,
3657042.1, 3657072.1, 3657102.0, 3657132.0, 3657161.9, 3657191.9, 3657221.9,
3657251.8, 3657281.8, 3657311.8,
3657341.7,

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)					
	474167.11	474186.18	474205.25	474224.32	474243.39	
474262.46	474281.53	474300.60	474319.67			

3657341.71	77.50	81.10	81.80	84.50	87.10
88.40	89.30	89.60	89.80		
3657311.75	75.80	80.60	80.50	81.70	82.90
83.50	84.40	85.50	86.80		
3657281.79	74.50	80.00	79.80	80.20	81.70
84.40	84.20	84.30	85.70		
3657251.83	74.80	79.40	79.00	79.20	80.90
84.10	83.70	83.80	85.30		

3657221.87	|	74.80	78.70	78.10	78.40	80.10
83.20	|	82.70	82.90	84.50		
3657191.91	|	74.00	77.40	77.10	77.30	78.80
81.50	|	81.30	81.50	82.90		
3657161.95	|	71.80	76.40	76.10	76.30	77.70
80.30	|	80.20	80.30	81.70		
3657131.99	|	71.30	75.70	75.30	75.60	77.00
79.30	|	79.10	79.30	80.80		
3657102.03	|	71.20	74.90	74.50	74.90	76.30
78.50	|	78.10	78.30	79.90		
3657072.07	|	70.90	73.90	73.70	73.90	75.00
77.00	|	76.60	76.90	78.50		
3657042.11	|	70.80	72.90	72.80	73.00	74.00
75.60	|	75.50	75.60	77.10		
3657012.15	|	71.30	71.90	72.00	72.50	73.40
74.50	|	74.50	74.70	76.20		
3656982.19	|	71.30	71.50	71.60	72.00	72.60
73.20	|	73.70	74.50	75.90		
3656952.23	|	69.50	69.60	69.70	70.10	70.70
71.50	|	73.00	74.00	75.10		
3656922.27	|	68.50	68.30	68.40	68.70	69.00
69.50	|	70.30	70.70	71.20		
3656892.31	|	68.50	68.30	68.40	68.50	68.30
67.90	|	68.30	68.60	68.80		
3656862.35	|	64.30	64.40	64.60	65.00	65.30
65.60	|	65.90	66.10	66.30		
3656832.39	|	60.80	60.80	61.00	61.50	62.20
63.00	|	63.10	63.30	63.50		
3656802.43	|	60.80	60.70	60.80	61.10	61.10
60.80	|	61.10	61.60	62.00		
3656772.47	|	59.30	59.40	59.40	59.70	59.60
59.10		59.50	60.10	60.50		
3656742.51		56.70	56.90	57.00	57.40	57.70
58.10		58.80	59.30	59.70		

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)					X-COORD (METERS)	
474434.09	474453.16	474472.23	474491.30	474338.74	474357.81	474376.88
				474395.95	474415.02	

3657341.71	|	90.20	90.30	90.40	90.40	90.40
90.40		90.50	90.80	91.40		
3657311.75	|	88.50	89.50	90.00	90.10	90.20
89.80		89.80	90.20	90.80		
3657281.79	|	89.30	88.90	89.00	89.40	89.20
89.00		89.10	89.60	90.30		
3657251.83	|	88.70	88.40	88.50	88.70	88.20
87.90		88.10	88.70	89.40		
3657221.87	|	88.00	87.40	87.70	88.00	87.10
86.50		86.70	87.50	88.50		
3657191.91	|	86.40	86.10	86.20	86.20	85.30
84.90		85.00	85.60	86.90		
3657161.95	|	85.30	84.80	85.00	85.00	83.60
83.30		83.50	84.30	86.10		
3657131.99	|	84.40	83.70	84.00	84.10	82.60
82.00		82.20	83.20	85.10		
3657102.03	|	83.50	82.60	82.90	83.00	81.40
80.60		80.80	81.90	84.20		
3657072.07	|	82.10	81.50	81.80	81.80	79.80
79.20		79.20	80.20	82.70		
3657042.11	|	80.50	80.20	80.40	80.10	77.90
77.50		78.00	79.20	80.90		
3657012.15	|	79.40	79.20	79.10	78.50	76.30
76.30		77.30	78.90	80.40		
3656982.19	|	77.80	77.90	77.50	76.50	75.00
74.70		75.10	76.50	79.30		
3656952.23	|	76.50	76.60	76.00	75.20	74.30
73.10		73.00	74.00	75.90		
3656922.27	|	72.00	72.00	72.00	71.80	71.70
71.10		71.40	72.20	72.90		
3656892.31	|	69.00	69.20	69.40	69.60	69.70
69.30		69.30	70.30	73.60		
3656862.35	|	66.30	66.60	66.80	67.10	67.40
67.30		67.30	68.10	71.40		
3656832.39	|	63.70	63.90	64.20	64.50	64.80
65.30		65.80	66.40	67.50		
3656802.43	|	62.20	63.10	63.60	63.90	64.30
64.00		64.90	66.30	67.10		
3656772.47	|	60.70	61.80	62.60	63.20	63.70
63.50		64.20	65.40	66.00		
3656742.51		60.10	60.80	61.70	62.50	63.20
63.90		63.90	63.80	64.10		

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*** AERMET - VERSION 22112 *** ***

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)		
	474510.37	474529.44	474548.51
3657341.71	91.70	92.30	93.80
3657311.75	90.70	90.70	91.60
3657281.79	89.90	89.90	91.00
3657251.83	89.10	89.00	90.20
3657221.87	88.10	88.10	89.00
3657191.91	86.80	86.90	87.90
3657161.95	85.90	86.10	87.90
3657131.99	85.00	85.20	86.90
3657102.03	84.10	84.20	85.70
3657072.07	82.90	84.00	87.00
3657042.11	81.50	82.30	84.00
3657012.15	80.40	80.50	81.30
3656982.19	79.40	79.40	80.50
3656952.23	77.00	78.50	81.00
3656922.27	75.80	79.00	82.20
3656892.31	76.20	79.00	81.80
3656862.35	73.40	75.40	77.10
3656832.39	69.60	71.30	72.50
3656802.43	68.10	69.40	70.80
3656772.47	66.10	67.20	69.10
3656742.51	64.30	65.40	67.50

^ *** AERMOD - VERSION 22112 *** C:\Users\enuno\OneDrive -
 Dudek\Desktop\HARP2\HARP\Ocean_Bluff\OCEAN *** 04/21/23
 *** AERMET - VERSION 22112 *** ***
 *** 22:48:51

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)				
	474167.11	474186.18	474205.25	474224.32	474243.39
474262.46	474281.53	474300.60	474319.67		

3657341.71	|		93.80	92.90	93.80	92.90	92.90
92.90		93.80	93.80	94.30			
3657311.75	|		94.30	92.90	93.80	93.80	94.30
94.30		95.10	95.10	95.10			
3657281.79	|		94.30	92.60	92.90	93.80	93.80
84.40		93.80	94.30	89.40			
3657251.83	|		93.80	92.50	92.60	92.90	84.50
84.10		83.70	89.40	89.40			
3657221.87	|		92.60	78.70	78.10	84.10	84.10
83.20		82.70	88.70	88.70			
3657191.91	|		78.70	77.40	77.10	84.10	83.10
81.50		88.00	88.70	88.00			
3657161.95	|		83.10	76.40	76.10	83.10	81.30
80.30		80.20	88.00	88.00			
3657131.99	|		77.20	75.70	75.30	80.10	80.10
79.30		79.10	86.10	85.20			
3657102.03	|		75.60	74.90	74.50	74.90	78.40
78.50		78.10	85.20	84.20			
3657072.07	|		74.70	73.90	73.70	78.40	78.40
77.00		83.20	84.20	84.20			
3657042.11	|		73.60	72.90	72.80	73.00	74.00
75.60		81.60	83.20	83.20			
3657012.15	|		71.30	71.90	72.00	72.50	73.40
74.50		74.50	81.60	80.00			
3656982.19	|		71.30	71.50	71.60	72.00	72.60
73.20		73.70	79.10	79.10			
3656952.23	|		69.50	69.60	69.70	70.10	70.70
71.50		73.00	74.00	75.10			
3656922.27	|		68.50	68.30	68.40	68.70	69.00
73.30		74.00	77.10	77.10			
3656892.31	|		68.50	68.30	68.40	68.50	68.30
93.60		93.60	93.60	93.60			
3656862.35	|		93.60	94.50	95.00	95.10	95.40
95.40		95.50	95.50	95.50			
3656832.39	|		95.80	96.00	96.30	96.70	96.70
96.70		96.70	96.70	98.30			
3656802.43	|		96.30	96.70	96.70	96.70	96.70
96.70		96.70	96.70	96.70			
3656772.47	|		96.70	96.70	96.70	96.70	96.70
96.70		96.70	96.70	96.70			
3656742.51			96.70	96.70	96.70	96.70	96.70
96.70		96.70	96.70	96.70			

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*** AERMET - VERSION 22112 *** ***

*** 22:48:51

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART

* HILL HEIGHT SCALES IN METERS *

Y-COORD	|				X-COORD (METERS)	
(METERS)	|	474338.74	474357.81	474376.88	474395.95	474415.02
474434.09	|	474453.16	474472.23	474491.30		

3657341.71	|	95.10	95.10	97.70	97.70	99.10
99.10	|	99.10	99.70	100.00		
3657311.75	|	95.10	89.50	90.00	90.10	90.20
89.80	|	99.10	90.20	100.00		
3657281.79	|	89.30	88.90	89.00	89.40	89.20
89.00	|	89.10	89.60	99.20		
3657251.83	|	88.70	88.40	88.50	88.70	88.20
87.90	|	88.10	88.70	98.60		
3657221.87	|	88.00	87.40	87.70	88.00	87.10
86.50	|	86.70	98.50	98.60		
3657191.91	|	86.40	86.10	86.20	86.20	85.30
84.90	|	98.50	98.50	98.50		
3657161.95	|	85.30	84.80	85.00	85.00	83.60
97.40	|	98.50	98.50	98.50		
3657131.99	|	84.40	83.70	84.00	84.10	82.60
97.40	|	97.40	97.40	97.40		
3657102.03	|	83.50	82.60	82.90	83.00	81.40
97.40	|	99.70	99.70	99.70		
3657072.07	|	82.10	81.50	81.80	81.80	79.80
99.70	|	99.70	99.70	99.70		
3657042.11	|	80.50	80.20	80.40	80.10	99.70
99.70	|	99.70	99.70	99.70		
3657012.15	|	79.40	79.20	79.10	78.50	99.70
99.70	|	99.70	99.70	99.70		
3656982.19	|	77.80	77.90	77.50	78.70	99.70
104.20	|	104.20	115.30	104.20		
3656952.23	|	76.50	76.60	76.00	99.60	99.70
104.20	|	115.30	115.30	115.30		
3656922.27	|	77.50	77.50	99.60	99.70	104.20
115.30	|	115.30	115.30	117.40		
3656892.31	|	93.60	99.60	99.70	104.20	115.30
115.30	|	115.30	117.40	115.30		
3656862.35	|	99.60	99.60	104.20	115.30	115.30
115.30	|	119.10	119.70	119.10		
3656832.39	|	99.60	104.20	115.30	115.30	117.40
119.10	|	120.70	120.70	120.70		

3656802.43	|	99.60	104.20	115.30	115.30	119.10
120.70	|	120.70	120.70	120.70		
3656772.47	|	99.60	104.20	115.30	115.30	119.10
120.70	|	120.70	120.70	120.70		
3656742.51		96.70	98.30	115.30	115.30	120.70
120.70		120.70	120.70	121.70		

^ *** AERMOD - VERSION 22112 *** *** C:\Users\enuno\OneDrive -
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	|				X-COORD (METERS)
	|	474510.37	474529.44	474548.51	

3657341.71	|	119.10	119.10	119.10
3657311.75	|	119.10	119.10	119.10
3657281.79	|	119.10	119.10	119.10
3657251.83	|	119.10	119.10	119.10
3657221.87	|	119.10	119.10	119.10
3657191.91	|	108.00	119.10	119.10
3657161.95	|	107.80	119.10	119.10
3657131.99	|	107.80	108.00	107.80
3657102.03	|	106.90	107.80	107.80
3657072.07	|	106.90	106.90	99.70
3657042.11	|	106.20	106.90	106.20
3657012.15	|	105.60	115.30	115.30
3656982.19	|	115.30	115.30	115.30
3656952.23	|	115.30	115.30	115.30
3656922.27	|	115.30	115.30	115.30
3656892.31	|	115.30	115.30	115.30
3656862.35	|	119.10	119.10	119.10
3656832.39	|	120.70	120.70	120.70
3656802.43	|	120.70	120.70	120.70
3656772.47		120.70	120.70	120.70
3656742.51		121.70	121.70	121.70

^ *** AERMOD - VERSION 22112 *** *** C:\Users\enuno\OneDrive -
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART

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

474566.3, 474591.0, 474615.8, 474640.5, 474665.2, 474690.0, 474714.7,
474739.4, 474764.1, 474788.9,
474813.6, 474838.3, 474863.1, 474887.8, 474912.5, 474937.2, 474962.0,
474986.7, 475011.4, 475036.2,
475060.9,

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

3656538.4, 3656569.1, 3656599.8, 3656630.6, 3656661.3, 3656692.0, 3656722.8,
3656753.5, 3656784.2, 3656814.9,
3656845.7, 3656876.4, 3656907.1, 3656937.9, 3656968.6, 3656999.3, 3657030.1,
3657060.8, 3657091.5, 3657122.2,
3657153.0,

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*** AERMET - VERSION 22112 *** ***
*** 22:48:51

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)							
474689.95	474714.68	474739.41	474764.14	474566.30	474591.03	474615.76	474640.49	474665.22

3657152.98	94.90	97.10	96.80	96.90	97.20
99.20	103.20	105.80	105.40		
3657122.25	93.20	96.80	97.30	97.00	97.60
98.60	99.70	102.60	104.80		
3657091.52	90.00	95.60	97.50	98.80	98.40
97.90	99.00	101.10	103.00		

3657060.79	|	92.40	96.30	98.90	99.50	99.00
98.60		98.80	101.90	105.40		
3657030.06	|	86.90	91.30	97.30	99.40	98.90
99.00		100.60	103.10	104.70		
3656999.33	|	82.90	90.30	96.40	98.80	99.10
99.10		101.60	104.00	103.80		
3656968.60	|	86.40	92.20	93.40	92.90	92.40
93.90		99.60	103.80	103.80		
3656937.87	|	85.40	87.60	86.90	85.00	84.20
88.70		94.60	97.90	100.00		
3656907.14	|	85.10	85.10	81.90	80.80	81.60
85.90		91.70	95.90	98.60		
3656876.41	|	79.50	79.50	79.70	80.00	81.20
84.30		89.30	92.10	91.70		
3656845.68	|	74.50	75.40	76.70	78.80	81.00
82.60		85.50	88.70	91.50		
3656814.95	|	72.50	74.50	76.60	78.40	80.90
84.00		87.00	92.50	97.70		
3656784.22	|	71.50	73.90	76.10	78.20	81.20
84.20		87.20	93.20	98.60		
3656753.49	|	69.70	72.10	76.40	82.60	86.60
87.60		91.80	96.70	98.70		
3656722.76	|	69.10	72.40	77.00	81.80	84.40
87.50		93.40	97.80	99.60		
3656692.03	|	69.00	72.00	75.10	78.10	81.90
86.00		87.90	93.30	99.30		
3656661.30	|	69.00	71.20	73.90	77.00	80.70
86.30		89.30	93.10	98.10		
3656630.57	|	69.80	71.10	72.90	77.80	83.00
87.20		89.70	91.10	94.70		
3656599.84	|	70.40	71.50	73.60	78.30	83.10
85.10		86.20	88.80	91.90		
3656569.11	|	70.80	72.30	74.00	76.50	79.30
81.80		84.00	87.60	90.60		
3656538.38		71.70	72.40	74.60	77.30	80.00
83.70		87.80	90.90	94.40		

▲ *** AERMOD - VERSION 22112 *** *** C:\Users\enuno\OneDrive -
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART

* ELEVATION HEIGHTS IN METERS *

Y-COORD |

X-COORD (METERS)

(METERS)	474788.87	474813.60	474838.33	474863.06	474887.79
474912.52	474937.25	474961.98	474986.71		

3657152.98	110.00	105.10	107.30	111.10	110.80	109.80
3657122.25	110.60	110.90	108.40	100.50		
3657091.52	111.90	111.80	118.60	113.20		
3657060.79	112.60	113.00	117.00	118.90		
3657030.06	113.50	113.70	115.40	116.70		
3656999.33	114.40	114.30	116.00	117.40		
3656968.60	115.10	115.20	117.50	118.90		
3656937.87	114.40	115.70	119.10	120.50		
3656907.14	114.30	116.40	118.70	119.10		
3656876.41	114.60	117.60	119.00	119.30		
3656845.68	114.10	116.80	118.00	119.50		
3656814.95	114.20	117.20	119.10	119.40		
3656784.22	113.00	116.80	118.30	119.70		
3656753.49	112.30	115.10	117.30	120.00		
3656722.76	112.20	110.70	103.20	105.00	107.10	109.60
3656692.03	112.20	115.30	118.20	120.30		
3656661.30	111.40	101.20	102.80	104.60	106.70	109.20
3656630.57	110.70	115.40	117.90	120.60		
3656599.84	110.40	100.80	102.60	104.20	106.30	108.70
3656569.11	109.00	114.60	117.40	119.80		
3656538.38	108.90	100.80	102.70	104.00	106.20	108.80
		111.40	117.70	118.10		
		99.30	101.60	103.60	105.90	108.40
		113.40	117.10	116.50		
		96.00	100.60	103.10	105.50	108.60
		113.30	115.00	118.90		
		92.70	97.20	101.80	104.50	107.10
		112.40	114.70	118.20		
		98.10	100.00	101.90	103.80	105.30
		111.90	113.60	116.20		

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 *** AERMET - VERSION 22112 *** ***

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)		
	475011.44	475036.17	475060.90
3657152.98	99.00	96.40	97.70
3657122.25	103.80	99.70	98.00
3657091.52	112.10	103.90	100.10
3657060.79	118.90	111.00	102.90
3657030.06	118.60	118.50	107.00
3656999.33	119.50	119.50	108.50
3656968.60	120.20	117.50	109.40
3656937.87	117.70	114.70	110.40
3656907.14	119.40	120.20	111.10
3656876.41	119.10	119.50	110.90
3656845.68	119.10	119.50	111.80
3656814.95	119.20	120.00	115.60
3656784.22	119.50	120.00	118.90
3656753.49	119.80	120.60	119.20
3656722.76	119.70	120.40	117.10
3656692.03	118.50	120.10	113.80
3656661.30	115.70	118.10	114.40
3656630.57	116.80	112.10	110.60
3656599.84	120.60	118.60	111.70
3656569.11	120.20	121.70	111.40
3656538.38	118.10	119.40	110.10

▲ *** AERMOD - VERSION 22112 *** C:\Users\enuno\OneDrive - Dudek\Desktop\HARP2\HARP\Ocean_Bluff\OCEAN *** 04/21/23

*** AERMET - VERSION 22112 ***
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART

* HILL HEIGHT SCALES IN METERS *

Y-COORD | X-COORD (METERS)

(METERS) |	474566.30	474591.03	474615.76	474640.49	474665.22
474689.95	474714.68	474739.41	474764.14		

3657152.98 |	97.40	97.10	96.80	106.90	114.60
114.60	106.20	105.80	105.40		
3657122.25 |	97.40	96.80	97.30	97.00	106.60
106.60	106.60	106.20	104.80		
3657091.52 |	99.70	97.20	97.50	98.80	98.40
106.20	106.20	105.60	114.20		
3657060.79 |	99.70	99.70	98.90	99.50	99.00
105.60	115.10	114.20	105.40		
3657030.06 |	104.20	99.70	99.60	99.40	98.90
104.00	104.60	104.60	115.10		
3656999.33 |	115.30	104.20	98.30	98.80	99.10
104.20	104.00	104.00	115.30		
3656968.60 |	104.20	99.60	99.60	115.30	115.30
115.30	115.30	103.80	115.30		
3656937.87 |	115.30	115.30	115.30	120.60	120.60
120.60	117.40	115.30	117.40		
3656907.14 |	115.30	115.30	120.60	120.70	120.70
120.60	120.60	119.10	119.00		
3656876.41 |	119.10	120.60	120.70	120.70	120.70
120.70	120.70	120.60	120.70		
3656845.68 |	120.70	120.70	120.70	120.70	120.70
120.70	120.70	120.70	120.70		
3656814.95 |	120.70	120.70	120.70	120.70	120.70
120.70	120.70	120.70	119.10		
3656784.22 |	120.70	120.70	120.70	120.70	120.70
120.70	120.70	120.70	117.00		
3656753.49 |	121.70	121.70	120.70	120.70	120.70
120.70	120.70	98.10	98.70		
3656722.76 |	121.70	121.70	120.70	120.70	120.70
120.70	120.70	97.80	99.60		
3656692.03 |	121.70	121.70	121.70	121.70	121.70
120.70	120.70	120.70	99.30		
3656661.30 |	121.70	121.70	121.70	121.70	121.70
120.70	120.70	120.70	102.50		
3656630.57 |	121.70	121.70	121.70	121.70	121.70
120.70	120.70	121.70	120.70		
3656599.84 |	121.70	121.70	121.70	121.70	121.70
121.70	121.70	121.70	121.70		
3656569.11 |	121.70	121.70	121.70	121.70	121.70
121.70	121.70	121.70	121.70		
3656538.38	121.70	121.70	121.70	121.70	121.70
121.70	121.70	121.70	120.60		

^ *** AERMOD - VERSION 22112 *** *** C:\Users\enuno\OneDrive -
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)				
	474788.87	474813.60	474838.33	474863.06	474887.79
474912.52	474937.25	474961.98	474986.71		

3657152.98	113.50	112.60	111.10	110.80	118.90
118.90	119.10	119.10	120.60		
3657122.25	112.60	112.60	118.90	118.90	118.90
119.10	119.10	118.90	119.10		
3657091.52	115.10	115.10	114.60	112.10	112.00
118.90	119.10	117.00	118.90		
3657060.79	115.10	115.30	115.10	112.70	113.40
112.60	113.70	115.40	116.70		
3657030.06	115.30	115.30	115.30	114.30	114.40
113.50	114.30	116.00	117.40		
3656999.33	115.30	115.30	115.30	115.00	114.70
114.40	119.00	117.50	118.90		
3656968.60	115.30	115.30	115.30	115.00	115.10
115.10	119.00	119.10	120.50		
3656937.87	117.40	117.40	117.40	117.40	112.10
114.40	116.40	118.70	119.10		
3656907.14	120.60	120.60	120.60	120.60	119.00
117.40	117.60	119.00	119.30		
3656876.41	120.70	120.70	120.70	120.60	119.50
114.60	116.80	118.00	119.50		
3656845.68	120.70	120.70	120.00	120.00	119.10
119.10	117.20	119.10	119.40		
3656814.95	119.10	119.10	119.10	119.10	119.10
116.70	116.80	118.30	119.70		
3656784.22	119.10	119.10	119.10	120.30	116.70
113.00	120.00	120.00	120.00		
3656753.49	120.70	118.00	120.70	120.70	120.70
120.70	120.30	118.20	120.30		
3656722.76	101.20	120.70	120.70	120.70	120.70
120.70	120.70	120.70	120.60		
3656692.03	100.80	120.70	120.70	120.70	120.70
120.70	120.70	119.90	119.80		
3656661.30	102.50	117.70	120.70	120.70	120.70
119.90	119.90	117.70	118.20		

3656630.57	117.70	117.70	119.90	119.90	118.80
118.80	117.70	117.10	120.60		
3656599.84	121.70	120.60	120.60	120.60	118.80
120.60	118.80	120.60	118.90		
3656569.11	121.70	121.70	120.60	120.60	120.60
121.70	120.60	120.60	118.20		
3656538.38	118.80	120.20	120.60	121.70	121.70
120.60	120.20	120.20	120.20		

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)		
	475011.44	475036.17	475060.90

3657152.98	120.60	120.60	120.60
3657122.25	120.60	120.60	120.60
3657091.52	119.10	120.60	120.60
3657060.79	118.90	119.50	120.60
3657030.06	118.60	118.50	120.60
3656999.33	119.50	119.50	120.60
3656968.60	120.20	120.30	120.60
3656937.87	117.70	120.60	120.60
3656907.14	119.40	120.20	120.30
3656876.41	119.10	119.50	120.30
3656845.68	119.10	119.50	120.30
3656814.95	119.20	120.00	120.10
3656784.22	119.50	120.00	118.90
3656753.49	119.80	120.60	119.20
3656722.76	119.70	120.40	120.50
3656692.03	118.50	120.10	120.60
3656661.30	120.20	118.30	120.20
3656630.57	120.60	121.70	121.70
3656599.84	120.60	121.70	121.70
3656569.11	120.20	121.70	121.70
3656538.38	118.10	119.40	121.70

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART

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

473349.3, 473378.3, 473407.3, 473436.4, 473465.4, 473494.4, 473523.4,
473552.4, 473581.4, 473610.4,
473639.4, 473668.4, 473697.4, 473726.5, 473755.5, 473784.5, 473813.5,
473842.5, 473871.5, 473900.5,
473929.5,

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

3656595.6, 3656623.9, 3656652.1, 3656680.4, 3656708.7, 3656737.0, 3656765.3,
3656793.5, 3656821.8, 3656850.1,
3656878.4, 3656906.7, 3656934.9, 3656963.2, 3656991.5, 3657019.8, 3657048.1,
3657076.3, 3657104.6, 3657132.9,
3657161.2,

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)				
473494.37	473349.32	473378.33	473407.34	473436.35	473465.36
473523.38	473552.39	473581.40			

3657161.19	55.10	56.30	57.30	58.40	59.20
59.80	61.50	64.60	67.20		
3657132.91	55.60	56.70	57.40	59.80	59.90
60.10	60.30	60.70	66.10		

3657104.63	|	54.80	56.40	57.50	60.20	60.20
60.30	|	60.40	60.10	66.20		
3657076.35	|	55.30	56.90	57.40	58.70	60.30
60.40	|	60.40	60.30	65.70		
3657048.07	|	56.00	57.20	57.40	57.90	60.30
60.40	|	60.40	60.70	65.30		
3657019.79	|	56.20	57.20	57.30	57.50	58.90
59.90	|	60.40	61.50	65.40		
3656991.51	|	54.60	55.60	55.80	56.10	56.80
58.40	|	59.80	61.90	64.60		
3656963.23	|	52.30	53.10	53.50	54.10	54.80
55.70	|	57.80	61.10	63.10		
3656934.95	|	52.00	52.30	52.30	52.70	52.80
52.70	|	54.50	60.00	62.60		
3656906.67	|	50.50	50.90	51.50	52.10	52.80
53.00	|	53.30	58.40	61.10		
3656878.39	|	48.40	48.40	49.20	50.40	51.70
52.60	|	53.40	57.60	60.20		
3656850.11	|	46.90	47.70	49.40	50.30	50.70
51.30	|	54.40	57.80	59.00		
3656821.83	|	45.10	46.60	49.00	49.10	49.70
50.60	|	53.40	56.60	58.00		
3656793.55	|	43.90	46.60	48.20	47.80	49.00
49.20	|	50.80	55.20	56.60		
3656765.27	|	43.50	44.80	46.50	46.80	47.40
47.40	|	49.70	54.00	55.50		
3656736.99	|	39.20	39.00	40.30	43.90	44.00
43.60	|	47.10	53.10	53.50		
3656708.71	|	35.40	36.20	37.20	40.70	40.40
40.30	|	44.40	49.60	50.40		
3656680.43	|	33.80	35.20	36.20	37.90	38.40
38.90	|	42.10	46.00	47.80		
3656652.15	|	33.70	34.50	35.20	36.10	37.30
38.10	|	39.60	43.40	46.10		
3656623.87	|	33.90	34.40	34.60	35.30	36.50
37.20		37.90	40.40	43.30		
3656595.59		33.60	34.20	34.40	35.00	36.60
37.40		37.80	37.90	39.50		

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART

* ELEVATION HEIGHTS IN METERS *

Y-COORD					X-COORD (METERS)	
(METERS)	473610.41	473639.42	473668.43	473697.44	473726.45	
473755.46	473784.47	473813.48	473842.49			

3657161.19	|	69.80	71.70	74.10	76.20	79.00
82.50		84.90	83.80	81.60		
3657132.91	|	68.70	69.70	73.50	75.00	75.80
78.70		81.00	80.80	79.80		
3657104.63	|	67.90	68.80	73.00	74.10	74.70
77.40		79.60	79.30	78.70		
3657076.35	|	67.20	68.10	72.50	73.50	74.30
76.90		78.50	77.60	76.20		
3657048.07	|	66.50	67.70	72.10	72.80	73.80
76.30		77.90	75.20	73.80		
3657019.79	|	65.90	67.10	71.70	72.10	73.30
75.90		78.00	76.30	73.00		
3656991.51	|	65.20	66.80	70.40	71.40	73.00
75.60		77.10	76.40	72.70		
3656963.23	|	64.50	66.70	69.30	70.70	72.70
75.30		75.30	72.60	71.50		
3656934.95	|	63.60	66.10	69.70	70.20	72.50
74.90		74.80	72.50	69.50		
3656906.67	|	61.80	65.30	69.20	69.50	72.10
74.50		73.80	71.70	66.50		
3656878.39	|	60.50	64.20	68.30	68.70	71.30
73.90		72.50	68.90	67.10		
3656850.11	|	59.90	63.30	67.50	68.10	70.60
73.00		70.70	68.60	64.50		
3656821.83	|	59.10	62.50	66.90	67.20	69.90
71.60		70.40	68.10	66.70		
3656793.55	|	57.90	61.30	65.90	65.40	67.20
67.60		65.50	64.60	63.70		
3656765.27	|	56.40	60.10	64.50	63.90	65.40
65.40		63.60	62.50	59.90		
3656736.99	|	54.10	58.40	62.10	62.80	64.20
64.40		63.20	61.60	58.30		
3656708.71	|	51.20	56.70	59.90	61.40	62.30
62.70		60.70	58.40	55.40		
3656680.43	|	49.30	55.20	57.10	58.30	59.00
59.50		57.30	54.30	51.70		
3656652.15	|	48.10	53.50	53.30	54.70	56.40
56.60		55.20	52.50	49.50		
3656623.87	|	45.50	49.20	49.60	51.70	54.60
55.50		54.60	52.00	48.10		
3656595.59		41.40	43.40	46.60	48.20	51.30
54.50		54.60	49.70	45.80		

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)			X-COORD (METERS)
	473871.50	473900.51	473929.52

3657161.19	77.40	71.40	69.10
3657132.91	74.60	70.20	67.60
3657104.63	74.80	70.80	67.00
3657076.35	73.50	70.30	66.70
3657048.07	70.10	67.30	65.10
3657019.79	69.30	66.90	63.80
3656991.51	70.40	67.80	63.60
3656963.23	68.80	65.00	62.70
3656934.95	65.90	61.90	60.60
3656906.67	64.60	60.70	58.60
3656878.39	63.50	61.60	58.20
3656850.11	61.90	60.90	57.30
3656821.83	62.20	58.50	54.40
3656793.55	59.70	56.20	51.90
3656765.27	55.50	52.70	50.50
3656736.99	54.30	49.70	47.10
3656708.71	51.20	47.90	44.90
3656680.43	48.10	46.40	44.20
3656652.15	47.20	45.40	44.60
3656623.87	46.40	45.30	46.00
3656595.59	44.60	45.60	46.60

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART

* HILL HEIGHT SCALES IN METERS *

Y-COORD					X-COORD (METERS)	
(METERS)	473349.32	473378.33	473407.34	473436.35	473465.36	
473494.37	473523.38	473552.39	473581.40			

3657161.19	|		59.50	59.50	57.30	58.40	59.20
65.10		66.10	65.60	67.20			
3657132.91	|		55.60	56.70	60.10	59.80	59.90
60.10		89.00	91.40	67.50			
3657104.63	|		54.80	56.40	60.30	60.20	60.20
60.30		67.80	89.50	67.80			
3657076.35	|		55.30	56.90	57.40	58.70	60.30
60.40		67.80	89.00	67.80			
3657048.07	|		56.00	57.20	57.40	57.90	60.30
60.40		60.40	72.10	65.30			
3657019.79	|		56.20	57.20	57.30	60.30	58.90
59.90		60.40	66.30	65.40			
3656991.51	|		56.90	57.20	57.20	56.10	56.80
58.40		59.80	66.10	66.10			
3656963.23	|		56.90	53.10	53.50	54.10	54.80
66.10		66.10	61.10	63.10			
3656934.95	|		52.00	52.30	52.30	52.70	52.80
71.20		72.00	62.20	62.60			
3656906.67	|		50.50	50.90	51.50	52.10	52.80
63.20		71.20	62.20	69.40			
3656878.39	|		48.40	48.40	49.20	50.40	51.70
62.20		69.80	69.40	69.40			
3656850.11	|		46.90	47.70	49.40	50.30	50.70
69.40		59.30	57.80	69.40			
3656821.83	|		45.10	46.60	49.00	49.10	49.70
58.40		58.40	56.60	68.40			
3656793.55	|		43.90	46.60	48.20	47.80	49.00
68.40		69.40	66.90	67.50			
3656765.27	|		43.50	44.80	46.50	46.80	47.40
68.40		68.40	66.90	67.50			
3656736.99	|		48.10	49.00	49.60	46.90	67.50
74.60		73.80	65.80	71.90			
3656708.71	|		49.00	66.90	68.40	67.50	73.80
74.90		74.60	71.90	73.00			
3656680.43	|		49.00	65.80	67.50	73.00	74.60
74.60		74.60	73.80	73.80			
3656652.15	|		45.90	46.40	66.90	73.00	73.80
74.60		74.60	73.80	73.00			
3656623.87	|		33.90	34.40	66.90	71.90	73.00
73.80		74.60	74.20	73.80			
3656595.59			33.60	34.20	34.40	65.80	66.90
73.00		73.80	74.20	74.20			

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)			
	473610.41	473639.42	473668.43	473697.44 473726.45
473755.46	473784.47	473813.48	473842.49	

3657161.19	|	69.80	89.00	89.00	89.50	89.00
85.60	|	84.90	83.80	81.60		
3657132.91	|	89.00	89.50	89.00	89.00	89.50
89.00	|	85.40	85.40	85.40		
3657104.63	|	67.90	89.00	73.00	85.60	89.00
85.40	|	85.40	85.40	78.70		
3657076.35	|	67.20	85.60	72.50	73.50	85.40
79.60	|	78.50	77.60	78.50		
3657048.07	|	66.50	73.10	72.10	72.80	78.70
78.70	|	77.90	77.90	78.80		
3657019.79	|	72.00	72.00	71.70	72.10	77.70
75.90	|	78.00	79.00	79.00		
3656991.51	|	71.20	72.00	70.40	71.40	73.00
75.60	|	79.00	79.00	79.00		
3656963.23	|	64.50	66.70	69.30	70.70	72.70
75.30	|	75.30	79.00	79.00		
3656934.95	|	69.80	69.80	69.70	74.90	74.90
74.90	|	74.80	75.00	79.00		
3656906.67	|	69.80	69.80	69.20	74.60	74.60
74.50	|	73.80	71.70	79.00		
3656878.39	|	74.60	69.40	68.30	74.60	73.80
73.90	|	72.50	74.20	73.60		
3656850.11	|	74.60	68.40	67.50	73.80	73.00
73.00	|	74.20	74.20	75.00		
3656821.83	|	73.80	67.50	66.90	73.00	71.90
71.60	|	70.40	68.10	66.70		
3656793.55	|	73.80	73.00	65.90	73.00	71.90
71.90	|	73.00	72.90	69.90		
3656765.27	|	73.00	71.90	64.50	71.90	71.90
71.90	|	72.90	72.90	74.20		
3656736.99	|	73.80	71.90	64.40	62.80	64.20
64.40	|	63.20	71.20	72.90		

3656708.71	73.80	71.90	59.90	61.40	62.30
62.70	63.90	71.90	74.20		
3656680.43	73.80	64.40	60.60	63.40	64.30
61.90	71.90	73.00	74.20		
3656652.15	73.00	64.40	71.90	64.30	64.30
64.30	64.30	72.90	74.20		
3656623.87	73.00	71.90	71.90	71.90	54.60
55.50	54.60	63.90	90.60		
3656595.59	74.20	73.80	71.90	71.90	61.90
56.20	54.60	63.90	94.30		

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)		
	473871.50	473900.51	473929.52

3657161.19	91.40	91.80	92.30
3657132.91	91.40	91.40	91.80
3657104.63	89.00	91.40	91.40
3657076.35	85.40	89.00	91.40
3657048.07	89.00	89.00	91.40
3657019.79	85.40	85.40	89.00
3656991.51	79.00	79.00	85.40
3656963.23	79.00	79.00	79.00
3656934.95	79.00	79.00	79.00
3656906.67	79.00	79.00	79.00
3656878.39	79.00	79.00	79.00
3656850.11	78.80	78.80	79.00
3656821.83	74.20	78.80	79.00
3656793.55	74.20	78.80	79.00
3656765.27	75.00	79.00	92.90
3656736.99	74.20	92.20	95.50
3656708.71	74.50	94.30	96.70
3656680.43	92.90	96.00	96.70
3656652.15	94.30	96.30	96.70
3656623.87	94.60	96.30	96.70
3656595.59	96.00	96.30	96.70

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: UCART5 ; NETWORK TYPE: GRIDCART

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

473515.3, 473541.1, 473566.9, 473592.7, 473618.5, 473644.3, 473670.0,
473695.8, 473721.6, 473747.4,
473773.2, 473799.0, 473824.8, 473850.6, 473876.4, 473902.2, 473928.0,
473953.7, 473979.5, 474005.3,
474031.1,

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

3656153.3, 3656162.6, 3656172.0, 3656181.3, 3656190.6, 3656200.0, 3656209.3,
3656218.7, 3656228.0, 3656237.3,
3656246.7, 3656256.0, 3656265.4, 3656274.7, 3656284.0, 3656293.4, 3656302.7,
3656312.1, 3656321.4, 3656330.7,
3656340.1,

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART5 ; NETWORK TYPE: GRIDCART

* ELEVATION HEIGHTS IN METERS *

Y-COORD | X-COORD (METERS)
(METERS) | 473515.31 473541.10 473566.89 473592.68 473618.47
473644.26 473670.05 473695.84 473721.63

3656340.08 | 53.50 56.30 56.90 57.60 56.90
55.90 56.80 56.60 55.70

3656330.74	|	54.70	57.30	57.90	58.90	58.60
58.00		59.30	59.10	58.10		
3656321.40	|	54.60	57.70	58.30	59.50	59.40
59.10		60.50	60.40	59.50		
3656312.06	|	53.70	57.70	58.30	59.70	59.70
59.40		60.50	60.50	60.00		
3656302.72	|	52.90	57.70	58.30	59.80	59.90
59.80		60.50	60.60	60.50		
3656293.38	|	52.20	57.50	58.40	59.90	60.00
60.00		60.50	60.70	60.90		
3656284.04	|	52.20	56.80	58.50	59.80	59.90
59.90		60.30	60.50	60.90		
3656274.70	|	52.20	56.00	58.70	59.60	59.80
59.90		60.20	60.40	60.90		
3656265.36	|	52.20	55.30	58.80	59.40	59.80
59.80		60.10	60.20	60.80		
3656256.02	|	52.20	55.30	58.90	59.30	59.70
59.70		59.90	60.20	60.90		
3656246.68	|	52.20	55.30	59.00	59.20	59.60
59.70		59.70	60.10	61.00		
3656237.34	|	52.20	55.30	59.10	59.10	59.60
59.60		59.60	60.00	61.10		
3656228.00	|	52.10	54.90	58.30	58.60	59.00
59.10		59.50	60.10	61.10		
3656218.66	|	52.10	54.30	57.00	57.90	58.20
58.50		59.50	60.20	61.10		
3656209.32	|	52.10	53.70	55.80	57.20	57.40
57.80		59.40	60.40	61.00		
3656199.98	|	51.80	53.20	54.70	56.40	56.60
57.10		59.10	60.40	61.10		
3656190.64	|	51.20	53.00	54.00	55.30	55.80
56.30		58.30	60.10	61.10		
3656181.30	|	50.50	52.70	53.30	54.30	55.10
55.60		57.50	59.80	61.20		
3656171.96	|	49.90	52.40	52.60	53.20	54.40
54.90		56.80	59.50	61.30		
3656162.62	|	49.10	51.30	51.90	52.80	54.00
54.90		56.90	59.40	61.00		
3656153.28		48.20	50.10	51.20	52.30	53.70
54.90		57.00	59.30	60.80		

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART5 ; NETWORK TYPE: GRIDCART

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	473747.42	473773.21	473799.00	473824.79	X-COORD (METERS)	473850.58
473876.37	473902.16	473927.95	473953.74			
3656340.08	54.00	53.30	51.70	49.80	50.40	
50.60	52.00	56.30	59.30			
3656330.74	56.80	55.70	53.10	49.90	50.50	
50.50	52.10	57.00	61.00			
3656321.40	58.50	57.10	54.60	51.00	50.70	
50.90	52.80	57.60	62.30			
3656312.06	59.00	57.50	56.30	53.10	51.20	
51.80	54.10	58.20	62.90			
3656302.72	59.50	57.90	58.00	55.20	51.70	
52.80	55.40	58.70	63.60			
3656293.38	60.00	58.40	59.50	57.10	52.30	
53.70	56.50	59.20	64.10			
3656284.04	60.50	59.40	60.10	58.00	53.30	
54.60	56.90	59.30	63.40			
3656274.70	61.10	60.40	60.80	58.90	54.40	
55.50	57.30	59.30	62.80			
3656265.36	61.60	61.30	61.40	59.80	55.40	
56.40	57.80	59.40	62.10			
3656256.02	61.90	61.80	61.70	60.20	56.70	
56.80	57.90	59.70	62.10			
3656246.68	62.30	62.20	62.00	60.50	58.00	
57.10	58.00	60.00	62.20			
3656237.34	62.60	62.50	62.30	60.80	59.40	
57.30	58.20	60.30	62.20			
3656228.00	62.70	62.70	62.70	61.40	60.40	
58.00	58.70	60.70	62.50			
3656218.66	62.70	62.80	63.10	62.20	61.00	
59.10	59.50	61.20	63.10			
3656209.32	62.60	62.90	63.50	63.00	61.70	
60.10	60.30	61.60	63.60			
3656199.98	62.60	62.90	63.70	63.70	62.50	
61.20	61.10	62.10	64.10			
3656190.64	62.60	62.90	63.70	64.00	63.20	
62.10	61.80	62.50	64.20			
3656181.30	62.50	62.90	63.70	64.40	64.00	
63.10	62.40	63.00	64.40			
3656171.96	62.50	62.80	63.80	64.80	64.80	
64.00	63.10	63.50	64.60			
3656162.62	62.10	62.70	63.70	64.70	64.90	
64.50	64.00	64.60	65.80			
3656153.28	61.80	62.60	63.60	64.60	65.00	

64.90 64.80 65.80 67.00
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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART5 ; NETWORK TYPE: GRIDCART

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)		
	473979.53	474005.32	474031.11
3656340.08	60.80	58.60	58.50
3656330.74	62.60	59.10	58.70
3656321.40	63.90	60.40	59.60
3656312.06	64.70	62.70	61.20
3656302.72	65.50	65.10	62.80
3656293.38	66.20	67.20	64.40
3656284.04	66.20	67.60	66.40
3656274.70	66.30	67.90	68.30
3656265.36	66.30	68.30	70.20
3656256.02	66.00	68.10	70.60
3656246.68	65.50	67.90	70.70
3656237.34	65.10	67.60	70.80
3656228.00	65.10	67.80	71.00
3656218.66	65.30	68.40	71.30
3656209.32	65.60	69.00	71.70
3656199.98	65.80	69.30	72.00
3656190.64	65.90	69.00	72.20
3656181.30	66.00	68.70	72.50
3656171.96	66.10	68.40	72.70
3656162.62	67.30	69.20	72.80
3656153.28	68.40	70.20	72.90

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART5 ; NETWORK TYPE: GRIDCART

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	473515.31	473541.10	473566.89	X-COORD (METERS)	473592.68	473618.47
473644.26	473670.05	473695.84	473721.63			
3656340.08	57.70	56.30	59.30	59.80	59.80	
60.70	60.70	60.70	61.00			
3656330.74	57.70	57.30	57.90	58.90	59.80	
60.40	60.40	60.70	59.50			
3656321.40	57.70	57.70	58.30	59.50	59.40	
59.10	60.50	60.40	59.50			
3656312.06	57.70	57.70	58.30	59.70	59.70	
59.40	60.50	60.50	60.00			
3656302.72	59.90	57.70	58.30	59.80	59.90	
59.80	60.50	60.60	60.50			
3656293.38	59.90	57.50	58.40	59.90	60.00	
60.00	60.50	60.70	60.90			
3656284.04	59.90	56.80	58.50	59.80	59.90	
59.90	60.30	60.50	60.90			
3656274.70	59.90	58.60	58.70	59.60	59.80	
59.90	60.20	60.40	60.90			
3656265.36	59.90	59.30	58.80	59.40	59.80	
59.80	60.10	60.20	60.80			
3656256.02	59.30	59.30	58.90	59.30	59.70	
59.70	59.90	60.20	60.90			
3656246.68	59.30	59.30	59.00	59.20	59.60	
59.70	59.70	60.10	61.00			
3656237.34	59.30	59.30	59.10	59.10	59.60	
59.60	59.60	60.00	61.10			
3656228.00	59.30	59.30	58.30	58.60	59.00	
59.10	59.50	60.10	61.10			
3656218.66	59.30	59.30	59.30	57.90	58.20	
58.50	59.50	60.20	61.10			
3656209.32	59.30	59.30	59.30	57.20	57.40	
57.80	59.40	60.40	61.00			
3656199.98	59.30	59.30	59.30	56.40	56.60	
57.10	59.10	60.40	61.10			
3656190.64	59.30	59.30	59.30	55.30	55.80	
58.90	60.50	60.10	61.10			
3656181.30	59.30	59.30	59.30	56.80	55.10	
60.50	60.50	59.80	61.20			
3656171.96	59.30	59.30	59.30	56.90	54.40	
60.50	60.50	59.50	61.30			
3656162.62	59.30	59.30	59.30	52.80	54.00	
54.90	59.00	59.40	61.00			
3656153.28	59.30	59.30	57.50	57.50	53.70	

54.90 57.00 59.30 60.80
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART5 ; NETWORK TYPE: GRIDCART

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)				
	473747.42	473773.21	473799.00	473824.79	473850.58
473876.37	473902.16	473927.95	473953.74		

3656340.08	|		61.70	61.70	63.00	74.50	76.20
89.90	|	91.00	89.90	89.90			
3656330.74	|		60.80	60.80	63.00	76.20	76.20
89.90	|	91.00	87.80	76.20			
3656321.40	|		58.50	57.10	61.60	74.50	76.20
89.90	|	89.90	77.40	76.20			
3656312.06	|		59.00	57.50	61.60	63.00	76.20
87.80	|	89.90	77.40	74.50			
3656302.72	|		60.80	57.90	59.60	63.00	76.20
81.60	|	81.60	76.20	74.50			
3656293.38	|		60.80	61.40	59.50	61.60	76.20
77.40	|	76.20	76.20	74.50			
3656284.04	|		60.50	59.40	60.10	61.60	76.20
76.20	|	76.20	76.20	76.20			
3656274.70	|		61.10	60.40	60.80	61.60	74.50
76.20	|	76.20	77.40	76.20			
3656265.36	|		61.60	61.30	61.40	61.60	64.90
74.80	|	76.20	77.40	76.20			
3656256.02	|		61.90	61.80	61.70	61.60	63.90
74.80	|	76.20	77.40	77.40			
3656246.68	|		62.30	62.20	62.00	60.50	63.90
74.80	|	76.20	76.20	77.70			
3656237.34	|		62.60	62.50	62.30	60.80	60.90
74.80	|	76.20	76.20	77.70			
3656228.00	|		62.70	62.70	62.70	61.40	60.40
64.90	|	75.70	76.20	77.70			
3656218.66	|		62.70	62.80	63.10	62.20	61.00
64.90	|	75.70	75.70	76.00			
3656209.32	|		62.60	62.90	63.50	63.00	62.70
64.40	|	75.70	75.70	76.00			

3656199.98	62.60	62.90	63.70	63.70	62.50
64.40	61.10	75.70	75.70		
3656190.64	62.60	62.90	63.70	64.00	63.20
64.40	61.80	75.70	75.70		
3656181.30	62.50	62.90	63.70	64.40	64.00
64.40	66.90	75.70	75.70		
3656171.96	62.50	62.80	63.80	64.80	64.80
64.00	66.90	73.10	75.70		
3656162.62	62.10	62.70	63.70	64.70	64.90
64.50	66.90	71.70	75.70		
3656153.28	61.80	62.60	63.60	64.60	65.00
64.90	64.80	68.30	69.70		

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART5 ; NETWORK TYPE: GRIDCART

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	473979.53	474005.32	474031.11	X-COORD (METERS)
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3656340.08	89.90	96.00	96.00
3656330.74	76.20	96.00	96.00
3656321.40	76.20	92.60	96.00
3656312.06	76.20	89.90	96.00
3656302.72	76.20	77.40	92.60
3656293.38	74.50	76.20	91.00
3656284.04	74.50	76.20	89.90
3656274.70	76.20	76.20	81.60
3656265.36	76.20	76.20	76.20
3656256.02	76.20	76.20	76.20
3656246.68	76.20	76.20	76.20
3656237.34	76.20	77.40	76.20
3656228.00	77.70	76.20	75.00
3656218.66	76.20	76.00	75.00
3656209.32	76.00	75.70	75.00
3656199.98	76.00	75.70	75.70
3656190.64	76.00	75.70	75.70
3656181.30	76.00	75.70	75.70
3656171.96	75.70	76.20	75.70
3656162.62	75.70	75.70	75.70

3656153.28 | 71.10 75.70 75.70
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: UCART6 ; NETWORK TYPE: GRIDCART

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

473733.9, 473752.8, 473771.6, 473790.5, 473809.3, 473828.2, 473847.0,
473865.9, 473884.8, 473903.6,
473922.5, 473941.4, 473960.2, 473979.1, 473997.9, 474016.8, 474035.7,
474054.5, 474073.4, 474092.2,
474111.1,

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

3655754.0, 3655773.0, 3655791.9, 3655810.9, 3655829.9, 3655848.9, 3655867.8,
3655886.8, 3655905.8, 3655924.7,
3655943.7, 3655962.7, 3655981.6, 3656000.6, 3656019.6, 3656038.6, 3656057.5,
3656076.5, 3656095.5, 3656114.4,
3656133.4,

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART6 ; NETWORK TYPE: GRIDCART

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)				X-COORD (METERS)	
	473733.89	473752.75	473771.61	473790.47	473809.33
473828.19	473847.05	473865.91	473884.77		

3656133.41	|	60.90	61.80	62.70	63.20	63.90
64.60		65.20	65.40	65.50		
3656114.44	|	60.90	62.30	63.40	63.30	63.80
64.60		65.40	65.60	65.50		
3656095.47	|	60.40	62.20	63.60	63.50	63.90
64.60		65.30	65.30	65.00		
3656076.50	|	59.90	62.00	63.70	63.70	63.90
64.50		65.10	64.90	64.50		
3656057.53	|	59.50	61.90	63.70	63.80	64.00
64.20		64.50	64.30	64.30		
3656038.56	|	58.70	60.50	61.90	62.10	62.20
62.50		63.10	63.70	64.30		
3656019.59	|	57.60	58.10	58.40	58.90	58.90
59.60		61.00	63.20	64.60		
3656000.62	|	56.20	56.70	57.20	57.70	58.20
59.20		60.70	62.50	63.80		
3655981.65	|	55.30	55.80	56.50	57.20	58.10
59.30		60.80	62.30	63.40		
3655962.68	|	55.70	56.20	56.80	57.60	58.80
60.20		61.70	63.40	64.20		
3655943.71	|	56.20	56.80	57.80	59.10	60.40
61.70		63.20	64.70	65.40		
3655924.74	|	56.80	57.60	59.00	61.10	62.30
63.50		64.80	66.10	66.70		
3655905.77	|	58.20	58.70	59.70	61.20	62.30
63.40		64.50	65.50	66.40		
3655886.80	|	59.10	59.60	60.30	61.20	62.20
63.30		64.30	65.10	66.20		
3655867.83	|	59.50	60.30	61.00	61.10	62.20
63.30		64.30	65.10	66.10		
3655848.86	|	59.30	59.90	60.40	60.60	61.50
62.40		63.60	65.10	66.30		
3655829.89	|	59.10	59.30	59.60	60.10	60.60
61.40		62.70	65.00	66.40		
3655810.92	|	58.80	59.10	59.50	60.10	60.10
60.80		62.20	64.20	65.90		
3655791.95	|	58.50	58.90	59.40	60.20	60.20
60.90		62.20	64.00	66.20		
3655772.98	|	58.20	58.50	59.10	60.30	60.70
61.60		62.80	64.30	67.10		
3655754.01		57.70	58.20	58.90	59.80	60.50
61.40		62.50	63.70	65.70		

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART6 ; NETWORK TYPE: GRIDCART

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	473903.63	473922.49	473941.35	473960.21	473979.07
473997.93	474016.79	474035.65	474054.51		

3656133.41 |	66.00	67.10	68.40	69.50	70.50
71.50	72.50	73.60	74.80		
3656114.44 |	66.00	67.30	69.40	70.70	71.70
72.70	73.40	74.20	75.30		
3656095.47 |	65.20	66.30	68.40	69.90	71.40
73.20	73.10	73.70	74.80		
3656076.50 |	64.50	65.20	67.00	68.80	70.70
73.10	72.40	72.90	74.20		
3656057.53 |	64.50	65.00	67.60	69.40	70.70
71.70	72.00	73.10	74.70		
3656038.56 |	64.70	65.10	67.50	69.10	70.20
70.70	71.90	73.50	75.20		
3656019.59 |	65.20	65.40	67.00	68.10	69.10
70.20	71.90	73.90	75.90		
3656000.62 |	64.60	65.10	66.60	67.90	69.00
70.30	71.70	73.50	75.40		
3655981.65 |	64.30	65.00	66.50	67.90	69.20
70.40	71.50	73.10	74.90		
3655962.68 |	64.80	65.40	67.00	68.30	69.40
70.40	71.50	73.10	75.00		
3655943.71 |	66.10	67.10	68.60	69.90	71.00
71.80	72.90	74.20	75.70		
3655924.74 |	67.70	69.30	70.60	72.10	73.40
73.90	75.10	75.90	76.60		
3655905.77 |	67.70	69.40	70.90	72.70	74.30
75.40	76.50	77.20	77.60		
3655886.80 |	67.70	69.40	71.30	73.20	74.90
76.40	77.60	78.30	78.40		
3655867.83 |	67.50	69.20	71.60	73.30	74.80
76.60	78.20	79.00	79.00		
3655848.86 |	67.70	69.50	71.20	72.50	73.80
75.40	78.00	79.20	79.20		
3655829.89 |	67.90	69.80	70.60	71.70	72.80
73.90	77.60	79.20	79.30		
3655810.92 |	67.60	69.30	70.90	72.00	72.90
73.90	77.30	78.80	78.90		
3655791.95 |	67.80	68.80	71.00	72.00	72.80
73.90	76.90	78.30	78.60		
3655772.98	68.40	68.30	70.90	71.80	72.50

73.90	76.40	77.80	78.40
3655754.01	67.00	67.80	69.80
73.80	75.70	77.10	77.80

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*** AERMET - VERSION 22112 ***
 *** 22:48:51

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART6 ; NETWORK TYPE: GRIDCART

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)		
	474073.37	474092.23	474111.09
3656133.41	76.10	77.30	78.50
3656114.44	76.50	77.50	78.50
3656095.47	75.90	77.00	78.20
3656076.50	75.20	76.40	77.90
3656057.53	75.90	77.20	78.40
3656038.56	76.60	77.70	78.80
3656019.59	77.20	78.10	79.00
3656000.62	76.70	77.70	78.80
3655981.65	76.40	77.50	78.60
3655962.68	76.90	78.00	78.80
3655943.71	77.50	78.30	78.90
3655924.74	78.10	78.50	78.80
3655905.77	78.20	78.50	78.70
3655886.80	78.30	78.40	78.50
3655867.83	78.40	78.20	78.30
3655848.86	78.50	78.40	78.30
3655829.89	78.70	78.50	78.30
3655810.92	78.60	78.50	78.20
3655791.95	78.40	78.20	78.00
3655772.98	78.00	77.80	77.60
3655754.01	77.80	77.60	77.40

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART6 ; NETWORK TYPE: GRIDCART

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	473733.89	473752.75	473771.61	473790.47	473809.33
473828.19	473847.05	473865.91	473884.77		

3656133.41 |	60.90	61.80	62.70	63.20	63.90
64.60	65.20	65.40	65.50		
3656114.44 |	60.90	63.70	63.40	63.30	63.80
64.60	65.40	65.60	65.50		
3656095.47 |	60.40	62.20	63.60	63.50	63.90
64.60	65.30	65.30	65.00		
3656076.50 |	63.60	63.60	63.70	63.70	63.90
64.50	65.10	64.90	64.50		
3656057.53 |	63.70	63.70	63.70	63.80	64.00
64.20	64.50	64.30	64.30		
3656038.56 |	63.70	63.70	63.70	63.90	64.00
64.00	64.20	63.70	64.30		
3656019.59 |	63.70	63.90	64.00	64.00	64.20
64.20	64.20	63.20	64.60		
3656000.62 |	63.90	63.90	64.00	64.00	64.20
59.20	63.50	62.50	63.80		
3655981.65 |	63.70	63.90	63.90	57.20	66.40
66.40	60.80	62.30	63.40		
3655962.68 |	55.70	56.20	62.80	66.40	66.40
66.40	66.40	63.40	64.20		
3655943.71 |	56.20	61.10	62.80	62.80	64.50
66.40	66.40	64.70	65.40		
3655924.74 |	56.80	57.60	61.10	61.10	62.30
63.50	64.80	66.10	66.70		
3655905.77 |	58.20	58.70	59.70	61.20	62.30
63.40	64.50	65.50	66.40		
3655886.80 |	59.10	59.60	60.30	61.20	62.20
63.30	64.30	65.10	66.20		
3655867.83 |	59.50	60.30	61.00	61.10	62.20
63.30	64.30	65.10	72.40		
3655848.86 |	59.30	59.90	60.40	60.60	61.50
62.40	63.60	65.10	66.30		
3655829.89 |	59.10	59.30	59.60	60.10	60.60
65.50	65.50	65.50	66.40		
3655810.92 |	58.80	59.10	59.50	60.10	60.10
68.70	68.70	64.20	65.90		
3655791.95 |	58.50	58.90	59.40	60.20	60.20
68.70	68.70	68.70	68.70		
3655772.98 |	58.20	58.50	59.10	60.30	60.70

```

68.70      68.70      68.70      68.70
3655754.01 |      57.70      58.20      58.90      59.80      60.50
68.70      68.70      68.70      68.70
^ *** AERMOD - VERSION 22112 *** *** C:\Users\enuno\OneDrive -
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART6 ; NETWORK TYPE: GRIDCART

* HILL HEIGHT SCALES IN METERS *

```

Y-COORD | X-COORD (METERS)
(METERS) | 473903.63 473922.49 473941.35 473960.21 473979.07
473997.93 474016.79 474035.65 474054.51
-----

```

```

3656133.41 | 66.00 67.10 68.40 69.50 70.50
71.50 | 72.50 73.60 74.80
3656114.44 | 66.00 70.30 70.30 70.70 71.70
72.70 | 73.40 74.20 75.30
3656095.47 | 70.30 71.70 70.30 69.90 71.40
73.20 | 73.10 73.70 74.80
3656076.50 | 70.30 73.40 73.40 73.40 73.40
73.40 | 72.40 72.90 74.20
3656057.53 | 64.50 73.40 68.70 69.40 70.70
71.70 | 72.00 73.10 74.70
3656038.56 | 64.70 70.70 67.50 69.10 70.20
70.70 | 71.90 73.50 75.20
3656019.59 | 65.20 65.40 67.00 68.10 69.10
75.70 | 75.70 75.70 75.90
3656000.62 | 64.60 65.10 66.60 67.90 69.00
70.30 | 75.70 73.50 75.40
3655981.65 | 64.30 73.10 73.10 67.90 69.20
70.40 | 71.50 73.10 74.90
3655962.68 | 73.10 77.80 77.80 77.80 77.80
77.80 | 75.50 77.40 77.40
3655943.71 | 70.90 76.30 76.30 76.30 77.80
77.80 | 75.50 74.20 75.70
3655924.74 | 67.70 69.30 70.60 72.10 73.40
73.90 | 75.10 75.90 76.60
3655905.77 | 67.70 69.40 74.40 74.40 74.30
75.40 | 76.50 77.20 77.60
3655886.80 | 67.70 69.40 71.30 73.20 74.90
76.40 | 77.60 78.30 78.40

```

3655867.83	|	72.40	72.40	72.40	73.30	74.80
76.60	|	78.20	79.00	79.00		
3655848.86	|	72.40	72.40	71.20	79.10	79.10
79.10	|	78.00	79.20	79.20		
3655829.89	|	69.80	69.80	79.10	79.10	79.10
79.50	|	79.10	79.20	79.30		
3655810.92	|	67.60	69.30	70.90	79.10	79.10
79.10	|	77.30	78.80	78.90		
3655791.95	|	67.80	71.50	71.00	72.00	79.10
79.10	|	78.30	78.30	78.60		
3655772.98	|	68.40	71.50	71.50	71.80	78.30
78.30		77.30	77.80	78.40		
3655754.01		67.00	71.50	69.80	71.10	77.30
77.30		75.70	77.10	77.80		

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART6 ; NETWORK TYPE: GRIDCART

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)			X-COORD (METERS)
	474073.37	474092.23	474111.09

3656133.41	|	76.10	77.30	78.50
3656114.44	|	76.50	77.50	78.50
3656095.47	|	75.90	77.00	78.20
3656076.50	|	75.20	76.40	77.90
3656057.53	|	75.90	77.20	78.40
3656038.56	|	76.60	77.70	78.80
3656019.59	|	77.20	78.10	79.00
3656000.62	|	76.70	77.70	78.80
3655981.65	|	76.40	77.50	78.60
3655962.68	|	76.90	78.00	78.80
3655943.71	|	77.50	78.30	78.90
3655924.74	|	78.10	78.50	78.80
3655905.77	|	78.20	78.50	78.70
3655886.80	|	78.30	78.40	78.50
3655867.83	|	78.40	78.20	78.30
3655848.86	|	78.50	78.40	78.30
3655829.89	|	78.70	78.50	78.30
3655810.92	|	78.60	78.50	78.20

3655791.95		78.40	78.20	78.00
3655772.98		78.00	77.80	77.60
3655754.01		77.80	77.60	77.40

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*** AERMET - VERSION 22112 *** ***
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

(474073.2, 3656639.6,	60.8,	96.7,	0.0);	(473871.6,
3656348.3, 50.7, 89.9,	0.0);			
(474258.3, 3656563.6,	90.1,	90.1,	0.0);	(474177.4,
3656568.8, 80.3, 92.0,	0.0);			
(474194.8, 3656569.3,	82.4,	92.0,	0.0);	(474205.0,
3656558.7, 83.3, 92.0,	0.0);			
(474265.6, 3656514.0,	90.9,	90.9,	0.0);	(474216.4,
3656507.1, 82.2, 94.6,	0.0);			
(474172.1, 3656508.7,	77.7,	94.6,	0.0);	(474327.4,
3656519.2, 94.4, 94.4,	0.0);			
(474343.6, 3656519.2,	94.9,	94.9,	0.0);	(474329.0,
3656506.6, 94.4, 94.4,	0.0);			
(474341.6, 3656504.2,	94.6,	94.6,	0.0);	(474381.5,
3656517.6, 96.0, 96.0,	0.0);			
(474372.1, 3656510.3,	96.0,	96.0,	0.0);	(474385.9,
3656502.6, 95.7, 95.7,	0.0);			
(474438.0, 3656513.6,	96.3,	96.3,	0.0);	(474440.8,
3656492.8, 96.1, 96.1,	0.0);			
(474442.0, 3656460.7,	95.6,	95.6,	0.0);	(474377.0,
3656474.5, 95.0, 95.0,	0.0);			
(474331.8, 3656464.0,	92.8,	92.8,	0.0);	(474264.4,
3656461.1, 89.6, 89.6,	0.0);			
(474257.9, 3656490.8,	89.8,	89.8,	0.0);	(474215.2,
3656466.0, 80.3, 96.0,	0.0);			
(474174.1, 3656470.9,	76.1,	96.0,	0.0);	(474329.1,
3656405.3, 92.5, 92.5,	0.0);			
(474328.6, 3656430.6,	92.2,	92.2,	0.0);	(474263.6,
3656422.5, 88.5, 88.5,	0.0);			
(474443.9, 3656423.9,	95.8,	95.8,	0.0);	(474385.5,
3656428.7, 95.5, 95.5,	0.0);			
(474384.6, 3656401.4,	95.6,	95.6,	0.0);	(474441.0,
3656388.1, 96.1, 96.1,	0.0);			
(474385.1, 3656380.4,	95.6,	95.6,	0.0);	(474195.2,
3656391.9, 77.7, 96.0,	0.0);			
(474211.0, 3656416.3,	80.0,	96.0,	0.0);	(474155.5,

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED

CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23,

10.80,

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL

DATA ***

Surface file: ..\McClellanPalomar_2019_2021_v22112.SFC

Met Version: 22112

Profile file: ..\McClellanPalomar_2019_2021_v22112.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 3177

Name: UNKNOWN

Year: 2019

Upper air station no.: 3190

Name: UNKNOWN

Year: 2019

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							

19	01	01	1	01	-6.7	0.101	-9.000	-9.000	-999.	77.	13.9	0.03	0.93
1.00	1.57	25.	7.9	280.3	2.0								
19	01	01	1	02	-8.6	0.115	-9.000	-9.000	-999.	94.	15.9	0.03	0.93
1.00	1.79	35.	7.9	279.8	2.0								
19	01	01	1	03	-16.3	0.162	-9.000	-9.000	-999.	156.	28.8	0.03	0.93
1.00	2.45	31.	7.9	279.2	2.0								
19	01	01	1	04	-8.4	0.114	-9.000	-9.000	-999.	93.	15.6	0.03	0.93
1.00	1.77	41.	7.9	278.1	2.0								
19	01	01	1	05	-13.0	0.143	-9.000	-9.000	-999.	129.	22.4	0.03	0.93
1.00	2.18	30.	7.9	279.2	2.0								
19	01	01	1	06	-12.3	0.139	-9.000	-9.000	-999.	124.	21.2	0.03	0.93
1.00	2.10	24.	7.9	278.8	2.0								
19	01	01	1	07	-13.6	0.146	-9.000	-9.000	-999.	134.	23.5	0.03	0.93

1.00	2.20	6.	7.9	279.8	2.0								
19	01	01	1	08	-15.9	0.231	-9.000	-9.000	-999.	267.	69.9	0.03	0.93
0.50	3.42	40.	7.9	280.9	2.0								
19	01	01	1	09	30.2	0.206	0.499	0.005	148.	225.	-26.1	0.03	0.93
0.29	2.61	41.	7.9	283.1	2.0								
19	01	01	1	10	77.6	0.226	0.818	0.005	254.	258.	-13.4	0.03	0.93
0.22	2.67	7.	7.9	284.8	2.0								
19	01	01	1	11	110.3	0.226	1.328	0.005	763.	257.	-9.4	0.03	0.93
0.20	2.57	17.	7.9	286.4	2.0								
19	01	01	1	12	125.8	0.231	1.462	0.005	892.	267.	-8.8	0.03	0.93
0.19	2.62	2.	7.9	287.0	2.0								
19	01	01	1	13	123.8	0.281	1.512	0.005	1004.	358.	-16.1	0.03	0.93
0.19	3.35	353.	7.9	287.5	2.0								
19	01	01	1	14	104.6	0.245	1.470	0.005	1090.	292.	-12.7	0.03	0.93
0.20	2.88	7.	7.9	288.8	2.0								
19	01	01	1	15	68.4	0.246	1.295	0.005	1142.	293.	-19.6	0.03	0.93
0.23	3.07	64.	7.9	288.8	2.0								
19	01	01	1	16	18.1	0.311	0.835	0.005	1153.	416.	-149.4	0.03	0.93
0.32	4.29	87.	7.9	287.0	2.0								
19	01	01	1	17	-24.0	0.270	-9.000	-9.000	-999.	337.	79.9	0.03	0.93
0.60	3.93	114.	7.9	285.3	2.0								
19	01	01	1	18	-6.3	0.099	-9.000	-9.000	-999.	106.	13.6	0.03	0.93
1.00	1.53	116.	7.9	283.8	2.0								
19	01	01	1	19	-6.7	0.101	-9.000	-9.000	-999.	78.	14.0	0.03	0.93
1.00	1.57	98.	7.9	282.0	2.0								
19	01	01	1	20	-3.4	0.072	-9.000	-9.000	-999.	47.	10.0	0.03	0.93
1.00	1.11	98.	7.9	279.8	2.0								
19	01	01	1	21	-5.6	0.092	-9.000	-9.000	-999.	67.	12.5	0.03	0.93
1.00	1.43	25.	7.9	279.8	2.0								
19	01	01	1	22	-7.2	0.105	-9.000	-9.000	-999.	81.	14.3	0.03	0.93
1.00	1.64	39.	7.9	279.2	2.0								
19	01	01	1	23	-16.3	0.161	-9.000	-9.000	-999.	155.	28.5	0.03	0.93
1.00	2.44	49.	7.9	279.2	2.0								
19	01	01	1	24	-25.8	0.257	-9.000	-9.000	-999.	312.	72.5	0.03	0.93
1.00	3.83	69.	7.9	280.3	2.0								

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
19	01	01	01	7.9	1	25.	1.57	280.4	99.0	-99.00	-99.00

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

```

*** AERMOD - VERSION 22112 ***      *** C:\Users\enuno\OneDrive -
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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: ALL

 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)					X-COORD (METERS)	
	474154.81	474193.09	474231.37	474269.65	474307.93	
474346.21	474384.49	474422.77	474461.05			

3656529.97	|	19.98085	26.45849	36.65947	56.04750	80.56241
95.24156		97.00839	81.93310	44.85165		
3656484.27	|	15.94701	19.19116	23.89912	31.99986	37.80929
40.22184		39.21173	34.72162	26.90826		
3656438.57	|	12.20645	13.87009	16.41828	19.67162	21.66953
22.66609		22.22340	20.49873	18.06513		
3656392.87	|	9.38438	10.27728	11.95017	13.52289	14.54937
14.85017		14.55572	13.77822	12.64688		
3656347.17	|	7.51571	8.38119	9.38189	10.03751	10.43275
10.56545		10.41186	9.99569	9.38778		
3656301.47	|	5.75053	6.60414	7.18665	7.62789	7.91302
7.97292		7.86314	7.62460	7.26622		
3656255.77	|	5.04688	5.33456	5.76582	6.03090	6.24091
6.25814		6.18457	6.03794	5.80349		
3656210.07	|	4.31906	4.45702	4.80475	4.95238	5.06497
5.07160		5.00580	4.90845	4.74663		
3656164.37	|	3.66358	3.79042	4.02026	4.12005	4.18823
4.20180		4.15703	4.07595	3.95444		
3656118.67	|	3.15637	3.27939	3.39193	3.48276	3.53692
3.54763		3.51446	3.45324	3.37097		
3656072.97	|	2.74415	2.83697	2.93584	2.98671	3.03620
3.04288		3.01680	2.97519	2.91875		
3656027.27	|	2.42562	2.49097	2.55789	2.60916	2.64395
2.64609		2.63031	2.59356	2.55404		
3655981.57	|	2.14747	2.19949	2.24854	2.28850	2.31619
2.32122		2.31195	2.28763	2.25128		
3655935.87	|	1.91907	1.95578	1.98927	2.02357	2.04554

2.05739	2.05042	2.03201	2.00155		
3655890.17	1.71753	1.74865	1.77496	1.80378	1.82265
1.83410	1.83446	1.81804	1.79350		
3655844.47	1.55327	1.57597	1.59866	1.61837	1.63404
1.64865	1.65030	1.64032	1.62040		
3655798.77	1.41253	1.42962	1.44605	1.46034	1.47493
1.49043	1.49051	1.48719	1.47251		
3655753.07	1.28942	1.30291	1.31520	1.32665	1.33882
1.34979	1.35492	1.35344	1.34473		
3655707.37	1.17829	1.18614	1.19523	1.20046	1.20384
1.23051	1.22420	1.22840	1.23278		
3655661.67	1.08015	1.09290	1.09809	1.10368	1.10591
1.13386	1.12925	1.12862	1.13372		
3655615.97	0.98730	0.99953	1.01625	1.02099	1.02388
1.02547	1.03219	1.04382	1.03850		

*** AERMOD - VERSION 22112 *** *** C:\Users\enuno\OneDrive -
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 *** 22:48:51

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)			
474690.73	474729.01	474767.29	474805.57	474614.17 474652.45

3656529.97	28.80949	20.83538	16.06266	13.07033	11.22741
10.01425	8.94928	7.84048	6.77624		
3656484.27	18.37941	14.60521	12.14870	10.43812	9.24476
8.57798	7.77238	6.90941	6.06874		

3656438.57	12.88630	10.62102	9.23191	8.37770	7.55981
7.02304	6.68040	5.92905	5.30665		
3656392.87	9.75828	8.15315	7.24558	6.78080	6.41931
5.87190	5.64420	5.09137	4.60540		
3656347.17	7.94814	6.69760	6.39267	5.97994	5.50618
5.10819	4.73395	4.38176	4.04768		
3656301.47	6.77948	5.72765	5.33369	5.12155	4.77204
4.43915	4.14471	3.84554	3.55184		
3656255.77	5.54605	4.94738	4.46327	4.31848	4.10816
3.87009	3.63757	3.38426	3.14323		
3656210.07	4.58458	4.27674	3.71437	3.55525	3.53062
3.43144	3.19623	2.98641	2.79766		
3656164.37	3.86655	3.67867	3.30988	3.10373	3.08775
3.01455	2.83491	2.65132	2.49153		
3656118.67	3.29690	3.20437	3.00055	2.75038	2.70786
2.65981	2.53918	2.38525	2.24026		
3656072.97	2.85414	2.78611	2.68272	2.46429	2.40180
2.36405	2.28335	2.15007	2.03369		
3656027.27	2.49950	2.44331	2.38408	2.27058	2.14657
2.12215	2.05954	1.94736	1.85481		
3655981.57	2.20590	2.15014	2.09990	2.06483	1.96296
1.90550	1.86711	1.77541	1.69550		
3655935.87	1.96468	1.89331	1.88095	1.85171	1.80759
1.74267	1.69901	1.61860	1.55456		
3655890.17	1.76380	1.70517	1.69183	1.66253	1.62945
1.59196	1.55124	1.48449	1.42734		
3655844.47	1.59647	1.56175	1.53042	1.50443	1.48258
1.45022	1.42068	1.36418	1.31967		
3655798.77	1.45204	1.42577	1.39557	1.37163	1.35141
1.32509	1.29054	1.25211	1.21799		
3655753.07	1.32599	1.30662	1.28173	1.24278	1.22473
1.20870	1.18680	1.16055	1.12925		
3655707.37	1.22086	1.20207	1.17791	1.13440	1.11880
1.10766	1.09682	1.07487	1.04817		
3655661.67	1.12476	1.10975	1.09359	1.05878	1.03028
1.02050	1.01381	0.99692	0.97236		
3655615.97	1.03735	1.02874	1.01535	0.99709	0.95470
0.94548	0.94028	0.92401	0.90651		

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 *** 22:48:51

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*
 *** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,

```

, L0000011      , L0000012      , L0000013      ,
, L0000019      , L0000020      , L0000021      ,
, L0000027      , L0000028      , . . .

```

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)		
	474843.85	474882.13	474920.41
3656529.97	5.90780	5.14513	4.30337
3656484.27	5.39548	4.73466	4.10688
3656438.57	4.78455	4.25322	3.79222
3656392.87	4.20108	3.79571	3.49188
3656347.17	3.71276	3.42012	3.16032
3656301.47	3.27501	3.02678	2.75981
3656255.77	2.91089	2.70661	2.47719
3656210.07	2.59963	2.42132	2.25478
3656164.37	2.32440	2.17716	2.04345
3656118.67	2.10863	1.98721	1.86998
3656072.97	1.93120	1.83198	1.72128
3656027.27	1.76799	1.68053	1.58306
3655981.57	1.62208	1.54883	1.46193
3655935.87	1.48697	1.41269	1.35039
3655890.17	1.36883	1.30524	1.25310
3655844.47	1.27167	1.21671	1.16985
3655798.77	1.18061	1.13572	1.08956
3655753.07	1.08950	1.05163	1.01795
3655707.37	1.01689	0.98436	0.95449
3655661.67	0.94294	0.91959	0.89622
3655615.97	0.88008	0.86193	0.84314

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

VALUES FOR SOURCE GROUP: ALL *** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION ***

INCLUDING SOURCE(S): L0000001 , L0000002

```

, L0000003 , L0000004 , L0000005 ,
, L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
, L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
, L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

```

*** NETWORK ID: UCART2 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)			
	474167.11	474186.18	474205.25	474224.32 474243.39
474262.46	474281.53	474300.60	474319.67	

3657341.71	2.12445	2.18709	2.20444	2.24783	2.28408
2.30062	2.31120	2.31737	2.32178		
3657311.75	2.23776	2.32888	2.33553	2.36274	2.38857
2.40378	2.42232	2.44202	2.46193		
3657281.79	2.36841	2.48365	2.48967	2.50584	2.54140
2.59517	2.59780	2.60423	2.62984		
3657251.83	2.54491	2.65498	2.65816	2.67256	2.71755
2.78947	2.78869	2.79602	2.82750		
3657221.87	2.73579	2.84308	2.84282	2.86209	2.91348
2.99469	2.99130	3.00200	3.04133		
3657191.91	2.92991	3.03693	3.04601	3.06589	3.11900
3.20277	3.20652	3.21895	3.26073		
3657161.95	3.11100	3.26146	3.27372	3.29743	3.35472
3.44759	3.45523	3.46657	3.51526		
3657131.99	3.36221	3.52371	3.53733	3.56930	3.63472
3.73017	3.73603	3.75284	3.81247		
3657102.03	3.65939	3.81801	3.83784	3.88024	3.95523
4.06014	4.06009	4.07981	4.15203		
3657072.07	3.99281	4.14704	4.18336	4.22753	4.30098
4.40994	4.41222	4.43974	4.52085		
3657042.11	4.38276	4.52667	4.58046	4.63672	4.71808
4.82213	4.84265	4.86560	4.95022		
3657012.15	4.85570	4.96906	5.05050	5.13659	5.23019
5.32584	5.35911	5.39297	5.48684		
3656982.19	5.38466	5.51469	5.62472	5.73202	5.83386
5.92248	5.99354	6.06914	6.17074		
3656952.23	5.92737	6.09688	6.24689	6.38815	6.51763
6.63757	6.77810	6.88061	6.97658		
3656922.27	6.60660	6.82871	7.03817	7.22829	7.39018
7.53157	7.65896	7.74281	7.80575		

3656892.31	7.44791	7.76139	8.05987	8.32522	8.54118
8.70943	8.86461	8.97526	9.04184		
3656862.35	8.31460	8.76961	9.20219	9.60137	9.94921
10.24018	10.46975	10.63324	10.73310		
3656832.39	9.42020	10.06423	10.69697	11.29646	11.83947
12.30673	12.67186	12.93887	13.10236		
3656802.43	10.78771	11.70316	12.63942	13.55912	14.41453
15.16609	15.79014	16.25752	16.55009		
3656772.47	12.35653	13.65888	15.05621	16.50124	17.91511
19.21529	20.33202	21.19367	21.75058		
3656742.51	14.14645	15.97408	18.06142	20.37025	22.79251
25.16362	27.29504	29.00733	30.16428		

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)				
474434.09	474453.16	474472.23	474491.30	474395.95	474415.02

3657341.71	2.32476	2.32455	2.32416	2.32145	2.31686
2.31028	2.30222	2.29312	2.28192		
3657311.75	2.48122	2.48909	2.49010	2.48747	2.48264
2.47330	2.46311	2.45204	2.43960		
3657281.79	2.67416	2.67036	2.66954	2.66932	2.66069
2.64939	2.63837	2.62831	2.61374		
3657251.83	2.87969	2.87587	2.87471	2.87206	2.85925

2.84408	2.83255	2.82112	2.80681		
3657221.87	| 3.10880	3.09867	3.10048	3.09890	3.07434
3.05063	3.03741	3.03035	3.01952		
3657191.91	| 3.34626	3.33920	3.33736	3.32962	3.29821
3.27351	3.25608	3.24535	3.24347		
3657161.95	| 3.62151	3.60708	3.60744	3.59798	3.54553
3.51852	3.50084	3.49431	3.50577		
3657131.99	| 3.93829	3.91390	3.91739	3.90896	3.84247
3.80002	3.77897	3.77792	3.79571		
3657102.03	| 4.29987	4.26224	4.26606	4.25555	4.17190
4.11351	4.08811	4.09017	4.12617		
3657072.07	| 4.69267	4.66151	4.66531	4.64738	4.52998
4.47033	4.43034	4.42647	4.47741		
3657042.11	| 5.13405	5.11359	5.11147	5.07303	4.92731
4.86765	4.84338	4.84434	4.86031		
3657012.15	| 5.68074	5.66273	5.63985	5.57539	5.41120
5.36153	5.35450	5.37072	5.37092		
3656982.19	| 6.30039	6.29976	6.25106	6.15046	6.01126
5.93120	5.87647	5.86624	5.93402		
3656952.23	| 7.08202	7.07924	7.00763	6.90624	6.78409
6.63241	6.52744	6.46684	6.44940		
3656922.27	| 7.85998	7.84671	7.80786	7.73303	7.63907
7.49663	7.37774	7.26583	7.13350		
3656892.31	| 9.06914	9.05841	9.01089	8.92793	8.80666
8.63170	8.44537	8.27973	8.23515		
3656862.35	| 10.76528	10.74630	10.66838	10.54088	10.36476
10.13078	9.86150	9.59063	9.42669		
3656832.39	| 13.16331	13.12666	13.00149	12.79411	12.51323
12.17411	11.78476	11.36171	10.93456		
3656802.43	| 16.66328	16.61668	16.41176	16.06900	15.61377
15.05171	14.44686	13.81795	13.15531		
3656772.47	| 21.98246	21.90767	21.54888	20.95231	20.16895
19.23695	18.23255	17.20001	16.14824		
3656742.51	30.68857	30.57538	29.89070	28.74958	27.28339
25.61447	23.83210	22.02805	20.27840		

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018

, L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD (METERS)	474510.37	474529.44	474548.51	X-COORD (METERS)
---------------------	-----------	-----------	-----------	------------------

3657341.71	2.26704	2.25108	2.22924
3657311.75	2.42187	2.40261	2.38326
3657281.79	2.59204	2.56972	2.55140
3657251.83	2.78032	2.75330	2.73467
3657221.87	2.98824	2.95793	2.93314
3657191.91	3.20963	3.17611	3.15455
3657161.95	3.46339	3.42627	3.41712
3657131.99	3.74809	3.70429	3.69298
3657102.03	4.06920	4.01382	3.99611
3657072.07	4.42159	4.39398	4.41921
3657042.11	4.81242	4.76500	4.74713
3657012.15	5.27616	5.17866	5.10949
3656982.19	5.82240	5.69498	5.62339
3656952.23	6.37414	6.31413	6.31040
3656922.27	7.12738	7.15782	7.18809
3656892.31	8.17273	8.14010	8.10780
3656862.35	9.21470	9.01377	8.79618
3656832.39	10.55033	10.16529	9.76647
3656802.43	12.50268	11.88477	11.30691
3656772.47	15.10107	14.13753	13.28471
3656742.51	18.61705	17.10549	15.78433

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,

, L0000019 , L0000020 , L0000021 ,
 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART3 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)			
474689.95	474714.68	474739.41	474764.14	474640.49 474665.22

3657152.98	3.47927	3.35223	3.28571	3.19919	3.10693
2.88800	2.51548	2.32339	2.26185		
3657122.25	3.81046	3.65781	3.54279	3.46055	3.32901
3.15070	2.95753	2.62265	2.42644		
3657091.52	4.15306	4.03162	3.84587	3.61418	3.52938
3.45315	3.23591	2.89216	2.66800		
3657060.79	4.59231	4.39933	4.05673	3.85104	3.76716
3.66727	3.50401	3.03402	2.71271		
3657030.06	4.95476	4.90232	4.61826	4.21130	4.10696
3.92464	3.54507	3.17567	2.93761		
3656999.33	5.30137	5.40356	5.14270	4.69479	4.45187
4.25286	3.69683	3.35090	3.21066		
3656968.60	6.10176	6.04435	5.78002	5.51472	5.26174
5.00064	4.34868	3.63560	3.46473		
3656937.87	6.78065	6.60996	6.26451	5.86791	5.54325
5.44013	5.19103	4.74825	4.22580		
3656907.14	7.63330	7.25858	6.67014	6.26013	5.98338
5.88553	5.72773	5.36336	4.84487		
3656876.41	8.15539	7.72493	7.32006	6.93577	6.62578
6.43238	6.27464	5.95964	5.60956		
3656845.68	8.90126	8.44274	8.03338	7.70418	7.39373
7.04583	6.77766	6.49208	6.15054		
3656814.95	10.16473	9.62672	9.14666	8.67791	8.29441
7.96242	7.59931	7.24763	6.59516		
3656784.22	11.84301	11.09692	10.42939	9.82238	9.35031
8.89035	8.41483	7.96795	7.10012		
3656753.49	13.85926	12.72880	11.98024	11.65083	11.05087
10.14746	9.47521	8.61051	7.70141		
3656722.76	16.32769	14.74576	13.67889	12.92137	11.95098
11.08561	10.30925	9.19109	8.15200		
3656692.03	18.99235	16.69605	14.95367	13.58561	12.57614
11.70952	10.65177	9.83043	8.63764		
3656661.30	21.36636	18.25316	15.95685	14.26576	13.03279

12.24218	11.14846	10.13114	9.00486			
3656630.57	22.83970	19.09404	16.35387	14.68699	13.57739	
12.48477	11.26642	10.10704	9.13744			
3656599.84	22.72701	18.85420	16.11595	14.43644	13.28566	
11.94542	10.69949	9.75715	8.90800			
3656569.11	20.87991	17.49974	15.04439	13.28685	11.98158	
10.90147	9.95338	9.23386	8.49189			
3656538.38	17.93013	15.31610	13.44343	12.07319	11.01037	
10.25260	9.59331	8.84050	8.09665			

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART3 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)	
474912.52	474937.25	474961.98	474986.71	474863.06	474887.79

3657152.98	2.19402	2.03075	1.81419	1.75836	1.72800
1.65873	1.57203	1.59266	1.80761		
3657122.25	2.35170	2.23193	2.10957	1.94433	1.79390
1.71814	1.61806	1.35210	1.47272		
3657091.52	2.52671	2.39686	2.19248	1.88624	1.82054
1.75965	1.66094	1.47489	1.37475		
3657060.79	2.61890	2.51896	2.29787	1.96499	1.86450
1.83305	1.73174	1.61872	1.53026		
3657030.06	2.79193	2.66705	2.42342	2.01018	1.93671
1.91230	1.82078	1.70389	1.60923		

3656999.33	|	3.06656	2.88536	2.56483	2.11386	2.05890
2.00830		1.91435	1.76985	1.67332		
3656968.60	|	3.29312	3.09715	2.73296	2.27846	2.20042
2.13318		2.04323	1.84532	1.74542		
3656937.87	|	3.73211	3.40420	3.10353	2.81723	2.55678
2.35122		2.18170	2.01640	1.94342		
3656907.14	|	4.46724	4.38499	4.15350	3.37899	2.84838
2.56561		2.31072	2.17285	2.09235		
3656876.41	|	5.29409	4.96293	4.51476	3.76654	3.24759
2.77752		2.55350	2.40148	2.24713		
3656845.68	|	5.76084	5.14247	4.33801	3.96809	3.40814
3.05140		2.74105	2.53035	2.41640		
3656814.95	|	5.80741	5.06655	4.56193	4.12068	3.73147
3.29187		2.97386	2.75421	2.56011		
3656784.22	|	6.27824	5.54187	4.99373	4.50662	4.03001
3.61922		3.28745	2.98539	2.68996		
3656753.49	|	6.78478	5.98574	5.41143	4.87753	4.36795
3.89787		3.45914	3.08199	2.80041		
3656722.76	|	7.18676	6.44334	5.79738	5.20336	4.64167
4.10109		3.60879	3.22938	2.88773		
3656692.03	|	7.65067	6.80230	6.11618	5.47289	4.87784
4.25562		3.79591	3.36493	3.01838		
3656661.30	|	7.91721	7.02433	6.32685	5.64256	5.00178
4.43326		3.98183	3.41280	3.18871		
3656630.57	|	8.12258	7.21901	6.44787	5.74467	5.10265
4.54919		4.02754	3.49362	3.33172		
3656599.84	|	8.07245	7.23683	6.45692	5.76050	5.07564
4.56992		4.03360	3.65320	3.16534		
3656569.11	|	7.75396	7.05429	6.38998	5.72031	5.11215
4.61434		4.05301	3.63273	3.17917		
3656538.38		7.33528	6.69626	6.12196	5.55538	5.06802
4.48642		3.98468	3.62594	3.24476		

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART3 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD (METERS)			X-COORD (METERS)
	475011.44	475036.17	475060.90

3657152.98	1.85079	1.89073	1.79954
3657122.25	1.70084	1.84735	1.87712
3657091.52	1.54283	1.73874	1.86316
3657060.79	1.42259	1.62798	1.82043
3657030.06	1.52995	1.49732	1.81170
3656999.33	1.61216	1.57411	1.88809
3656968.60	1.71226	1.76267	1.99067
3656937.87	1.94357	2.00190	2.09550
3656907.14	2.02326	1.92963	2.21334
3656876.41	2.18627	2.09350	2.36541
3656845.68	2.33627	2.22834	2.47034
3656814.95	2.47490	2.33312	2.43326
3656784.22	2.59065	2.44810	2.38999
3656753.49	2.68842	2.51773	2.46689
3656722.76	2.78811	2.60965	2.65062
3656692.03	2.93363	2.68979	2.89005
3656661.30	3.16485	2.85037	2.90559
3656630.57	3.12404	3.23040	3.12835
3656599.84	2.88453	2.84835	3.07487
3656569.11	2.88091	2.64678	3.06346
3656538.38	2.95159	2.72569	3.06813

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: ALL

INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026

, L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART4 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)				
	473349.32	473378.33	473407.34	473436.35	473465.36
473494.37	473523.38	473552.39	473581.40		

3657161.19	0.98734	1.02842	1.07111	1.11716	1.16442
1.21344	1.27359	1.34989	1.42915		
3657132.91	1.00802	1.05011	1.09270	1.14849	1.19340
1.24182	1.29337	1.34981	1.45371		
3657104.63	1.02252	1.06840	1.11468	1.17435	1.22043
1.27017	1.32318	1.37664	1.49008		
3657076.35	1.04372	1.09132	1.13583	1.18826	1.24663
1.29839	1.35287	1.41030	1.52140		
3657048.07	1.06630	1.11347	1.15785	1.20698	1.27256
1.32640	1.38316	1.44636	1.55429		
3657019.79	1.08649	1.13412	1.17949	1.22846	1.28890
1.35108	1.41399	1.48668	1.59287		
3656991.51	1.09712	1.14568	1.19289	1.24389	1.30101
1.36869	1.44048	1.52451	1.62282		
3656963.23	1.10466	1.15289	1.20229	1.25625	1.31469
1.37879	1.45657	1.55216	1.64609		
3656934.95	1.12248	1.16960	1.21838	1.27276	1.32939
1.38907	1.46511	1.57762	1.67997		
3656906.67	1.13487	1.18369	1.23697	1.29413	1.35613
1.41991	1.48931	1.59950	1.70443		
3656878.39	1.14536	1.19356	1.24886	1.31029	1.37714
1.44714	1.52225	1.62883	1.73555		
3656850.11	1.15951	1.21243	1.27343	1.33538	1.39955
1.46994	1.56188	1.66709	1.76481		
3656821.83	1.17366	1.23054	1.29604	1.35595	1.42307
1.49728	1.58944	1.69504	1.79729		
3656793.55	1.19139	1.25426	1.31798	1.37752	1.44951
1.52244	1.60919	1.72335	1.82824		
3656765.27	1.21326	1.27225	1.33759	1.40223	1.47349
1.54797	1.64042	1.75564	1.86433		
3656736.99	1.22474	1.28025	1.34438	1.42158	1.49297
1.56871	1.66707	1.79289	1.89697		
3656708.71	1.24163	1.30143	1.36646	1.44376	1.51657
1.59652	1.69780	1.81768	1.92758		
3656680.43	1.26597	1.32899	1.39624	1.47081	1.54873
1.63357	1.73432	1.84910	1.96741		

3656652.15	1.29486	1.35884	1.42785	1.50312	1.58567
1.67466	1.77385	1.89041	2.01622		
3656623.87	1.32547	1.39117	1.46168	1.53932	1.62495
1.71720	1.81817	1.93400	2.06367		
3656595.59	1.35570	1.42391	1.49698	1.57724	1.66693
1.76298	1.86718	1.98099	2.11050		

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART4 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)				
	473610.41	473639.42	473668.43	473697.44	473726.45
473755.46	473784.47	473813.48	473842.49		

3657161.19	1.51560	1.60202	1.70119	1.80458	1.92464
2.06110	2.18983	2.28160	2.35726		
3657132.91	1.54297	1.62262	1.74222	1.84331	1.94250
2.07973	2.21788	2.32591	2.42464		
3657104.63	1.57381	1.65560	1.78504	1.88595	1.98758
2.12978	2.27579	2.38953	2.50338		
3657076.35	1.60621	1.69138	1.82853	1.93313	2.04340
2.19247	2.33781	2.44788	2.55300		
3657048.07	1.63919	1.73132	1.87411	1.97952	2.09864
2.25437	2.40893	2.49049	2.60224		
3657019.79	1.67384	1.76964	1.92053	2.02656	2.15482
2.32078	2.49485	2.60531	2.68588		
3656991.51	1.70799	1.81233	1.95479	2.07430	2.21544

2.39036	2.56244	2.70264	2.78246		
3656963.23	| 1.74268	1.85830	1.99229	2.12276	2.27731
2.46138	2.61085	2.71231	2.86027		
3656934.95	| 1.77571	1.89871	2.05245	2.17519	2.34225
2.53178	2.68771	2.80634	2.92181		
3656906.67	| 1.79975	1.93718	2.10015	2.22516	2.40470
2.60344	2.75431	2.88619	2.96707		
3656878.39	| 1.83023	1.97261	2.14239	2.27427	2.46046
2.67190	2.81475	2.92223	3.08996		
3656850.11	| 1.86880	2.01154	2.18699	2.32769	2.51912
2.73465	2.86488	3.01698	3.15268		
3656821.83	| 1.90668	2.05303	2.23592	2.37749	2.57918
2.78725	2.95144	3.11007	3.31365		
3656793.55	| 1.94267	2.09176	2.28056	2.41489	2.60326
2.78752	2.94356	3.14576	3.37588		
3656765.27	| 1.97887	2.13345	2.32211	2.46099	2.64931
2.83334	3.00751	3.22006	3.44284		
3656736.99	| 2.01274	2.17378	2.35435	2.51772	2.71108
2.90742	3.10366	3.32240	3.55575		
3656708.71	| 2.04849	2.21934	2.39638	2.57578	2.76839
2.97684	3.17483	3.40337	3.66801		
3656680.43	| 2.09661	2.27209	2.43967	2.62004	2.81638
3.03486	3.24936	3.49521	3.79234		
3656652.15	| 2.15280	2.32799	2.48364	2.67095	2.88469
3.11055	3.35152	3.62154	3.94083		
3656623.87	| 2.20528	2.37116	2.53825	2.73632	2.96715
3.21135	3.47214	3.76111	4.09799		
3656595.59	2.25488	2.41595	2.60136	2.80258	3.03907
3.31124	3.59445	3.88462	4.24473		

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 *** 22:48:51

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): L000001 , L000002
 , L000003 , L000004 , L000005 ,
 L000006 , L000007 , L000008 , L000009 , L000010
 , L000011 , L000012 , L000013 ,
 L000014 , L000015 , L000016 , L000017 , L000018
 , L000019 , L000020 , L000021 ,
 L000022 , L000023 , L000024 , L000025 , L000026
 , L000027 , L000028 , . . . ,

*** NETWORK ID: UCART4 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	473871.50	473900.51	473929.52	X-COORD (METERS)
---------------------	-----------	-----------	-----------	------------------

3657161.19	2.39175	2.38257	2.44033
3657132.91	2.44216	2.47062	2.53483
3657104.63	2.55218	2.59692	2.65030
3657076.35	2.63340	2.70565	2.77646
3657048.07	2.67088	2.76681	2.88393
3657019.79	2.76514	2.88356	3.00291
3656991.51	2.90355	3.03098	3.14635
3656963.23	2.98536	3.10775	3.28367
3656934.95	3.04480	3.19128	3.40963
3656906.67	3.14255	3.31375	3.54736
3656878.39	3.24872	3.47172	3.71234
3656850.11	3.35204	3.61140	3.87867
3656821.83	3.49057	3.73552	4.03571
3656793.55	3.59306	3.87310	4.20992
3656765.27	3.69254	4.01510	4.40289
3656736.99	3.83603	4.17802	4.60141
3656708.71	3.97949	4.36284	4.82284
3656680.43	4.14079	4.56445	5.06655
3656652.15	4.32387	4.78018	5.32713
3656623.87	4.51027	5.00084	5.59160
3656595.59	4.68245	5.20650	5.83071

^ *** AERMOD - VERSION 22112 *** *** C:\Users\enuno\OneDrive -
 Dudek\Desktop\HARP2\HARP\Ocean_Bluff\OCEAN *** 04/21/23
 *** AERMET - VERSION 22112 *** ***
 *** 22:48:51

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART5 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

Y-COORD (METERS)				X-COORD (METERS)	
	473515.31	473541.10	473566.89	473592.68	473618.47
473644.26	473670.05	473695.84	473721.63		

3656340.08	2.05084	2.16366	2.26313	2.36978	2.46733
2.56821	2.69580	2.81887	2.94210		
3656330.74	2.04809	2.15845	2.25586	2.36367	2.46225
2.56305	2.69306	2.81121	2.92606		
3656321.40	2.03313	2.14601	2.24095	2.34842	2.44607
2.54657	2.67483	2.78954	2.89939		
3656312.06	2.01036	2.12818	2.22036	2.32705	2.42254
2.51920	2.63921	2.75042	2.86027		
3656302.72	1.98769	2.10917	2.19855	2.30324	2.39653
2.49188	2.60243	2.71021	2.82030		
3656293.38	1.96507	2.08704	2.17673	2.27829	2.36816
2.46098	2.56467	2.66910	2.77824		
3656284.04	1.94675	2.05906	2.15388	2.24995	2.33636
2.42539	2.52347	2.62320	2.72998		
3656274.70	1.92754	2.02962	2.13119	2.21959	2.30376
2.39030	2.48299	2.57821	2.68139		
3656265.36	1.90752	2.00067	2.10661	2.18854	2.27168
2.35338	2.44205	2.53163	2.63130		
3656256.02	1.88676	1.97729	2.08130	2.15803	2.23785
2.31603	2.39958	2.48749	2.58395		
3656246.68	1.86533	1.95327	2.05537	2.12701	2.20360
2.27954	2.35699	2.44207	2.53674		
3656237.34	1.84333	1.92871	2.02892	2.09559	2.17018
2.24168	2.31560	2.39680	2.48981		
3656228.00	1.82012	1.90034	1.99279	2.05967	2.12994
2.19927	2.27429	2.35419	2.44198		
3656218.66	1.79719	1.87013	1.95214	2.02179	2.08788
2.15611	2.23431	2.31190	2.39469		
3656209.32	1.77391	1.83987	1.91322	1.98419	2.04636
2.11243	2.19347	2.27121	2.34678		
3656199.98	1.74831	1.81036	1.87585	1.94606	2.00543
2.06939	2.15084	2.22862	2.30210		
3656190.64	1.72063	1.78300	1.84217	1.90591	1.96515
2.02616	2.10363	2.18318	2.25695		
3656181.30	1.69238	1.75491	1.80881	1.86742	1.92638
1.98464	2.05749	2.13856	2.21385		
3656171.96	1.66488	1.72689	1.77583	1.82897	1.88826
1.94391	2.01337	2.09481	2.17160		
3656162.62	1.63641	1.69380	1.74327	1.79623	1.85307

3656265.36	|	2.73783	2.83232	2.93607	3.01947	3.07944
3.20205		3.33334	3.47226	3.63380		
3656256.02	|	2.68850	2.78082	2.87622	2.95497	3.01658
3.12384		3.24503	3.37905	3.52845		
3656246.68	|	2.64100	2.72855	2.81737	2.89056	2.95673
3.04699		3.15957	3.28929	3.42874		
3656237.34	|	2.59254	2.67558	2.75962	2.82763	2.90120
2.97147		3.07809	3.20293	3.33139		
3656228.00	|	2.54176	2.62202	2.70456	2.77042	2.84368
2.90374		3.00287	3.12123	3.24251		
3656218.66	|	2.49030	2.56797	2.65078	2.71782	2.78325
2.84331		2.93417	3.04418	3.16206		
3656209.32	|	2.43830	2.51500	2.59832	2.66712	2.72632
2.78473		2.86856	2.96891	3.08363		
3656199.98	|	2.38866	2.46174	2.54419	2.61675	2.67298
2.73038		2.80595	2.89811	3.00863		
3656190.64	|	2.34001	2.40971	2.48848	2.56197	2.62034
2.67615		2.74485	2.82880	2.93020		
3656181.30	|	2.29108	2.35892	2.43425	2.51034	2.57125
2.62594		2.68499	2.76374	2.85648		
3656171.96	|	2.24457	2.30806	2.38292	2.46030	2.52419
2.57676		2.62906	2.70138	2.78567		
3656162.62	|	2.19412	2.25854	2.33022	2.40426	2.46810
2.52370		2.57855	2.65089	2.73431		
3656153.28		2.14625	2.21035	2.27903	2.34993	2.41379
2.47105		2.52895	2.60499	2.68625		

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L000001 , L000002
 , L000003 , L000004 , L000005 ,
 L000006 , L000007 , L000008 , L000009 , L000010
 , L000011 , L000012 , L000013 ,
 L000014 , L000015 , L000016 , L000017 , L000018
 , L000019 , L000020 , L000021 ,
 L000022 , L000023 , L000024 , L000025 , L000026
 , L000027 , L000028 , . . . ,

*** NETWORK ID: UCART5 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD
(METERS)

473979.53 474005.32 474031.11

X-COORD (METERS)

3656340.08	4.83014	5.03623	5.28049
3656330.74	4.70595	4.87000	5.09066
3656321.40	4.58126	4.72160	4.91803
3656312.06	4.45311	4.59905	4.76501
3656302.72	4.33085	4.49350	4.62376
3656293.38	4.21207	4.39621	4.49422
3656284.04	4.08211	4.26479	4.38555
3656274.70	3.95960	4.13678	4.28779
3656265.36	3.83979	4.01719	4.20227
3656256.02	3.71836	3.88755	4.07959
3656246.68	3.59795	3.76369	3.95374
3656237.34	3.48482	3.64300	3.83371
3656228.00	3.38411	3.53920	3.72206
3656218.66	3.29136	3.44932	3.61833
3656209.32	3.20441	3.36380	3.52214
3656199.98	3.11929	3.27517	3.42749
3656190.64	3.03584	3.17645	3.33423
3656181.30	2.95579	3.08204	3.24765
3656171.96	2.87896	2.99169	3.16210
3656162.62	2.82544	2.92802	3.07751
3656153.28	2.77342	2.87181	2.99641

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART6 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)	
473828.19	473733.89	473752.75	473771.61	473790.47	473809.33
473847.05	473865.91	473884.77			

3656133.41	2.02044	2.06608	2.11295	2.15590	2.20230
2.24968	2.29657	2.33822	2.37871		
3656114.44	1.94138	1.98942	2.03563	2.06798	2.10828
2.15324	2.19916	2.23719	2.27108		
3656095.47	1.86139	1.91025	1.95676	1.98637	2.02239
2.06273	2.10377	2.13573	2.16364		
3656076.50	1.78585	1.83440	1.88117	1.90949	1.94041
1.97648	2.01305	2.03954	2.06343		
3656057.53	1.71545	1.76381	1.80872	1.83590	1.86440
1.89308	1.92309	1.94711	1.97350		
3656038.56	1.64552	1.68472	1.72174	1.74753	1.77243
1.79951	1.82996	1.86066	1.89160		
3656019.59	1.57728	1.60262	1.62659	1.65240	1.67410
1.70194	1.73664	1.78077	1.81815		
3656000.62	1.51099	1.53429	1.55781	1.58151	1.60535
1.63351	1.66663	1.70379	1.73715		
3655981.65	1.45210	1.47365	1.49677	1.52012	1.54522
1.57310	1.60423	1.63633	1.66537		
3655962.68	1.40477	1.42495	1.44596	1.46856	1.49448
1.52259	1.55236	1.58496	1.60962		
3655943.71	1.36053	1.38016	1.40273	1.42791	1.45369
1.48010	1.50894	1.53864	1.56111		
3655924.74	1.31921	1.33906	1.36340	1.39386	1.41819
1.44301	1.46925	1.49608	1.51647		
3655905.77	1.28526	1.30219	1.32273	1.34738	1.36951
1.39201	1.41490	1.43725	1.45896		
3655886.80	1.24994	1.26595	1.28342	1.30249	1.32254
1.34368	1.36433	1.38353	1.40558		
3655867.83	1.21306	1.23018	1.24674	1.25910	1.27870
1.29862	1.31806	1.33609	1.35600		
3655848.86	1.17405	1.18882	1.20298	1.21511	1.23206
1.24918	1.26878	1.29113	1.31155		
3655829.89	1.13686	1.14823	1.16017	1.17336	1.18657
1.20183	1.22078	1.24771	1.26857		
3655810.92	1.10079	1.11201	1.12379	1.13681	1.14606
1.15972	1.17818	1.20140	1.22320		
3655791.95	1.06639	1.07747	1.08912	1.10259	1.11123
1.12415	1.14106	1.16178	1.18609		
3655772.98	1.03356	1.04341	1.05491	1.06996	1.08043
1.09397	1.10959	1.12751	1.15503		
3655754.01	1.00116	1.01145	1.02284	1.03541	1.04697
1.05979	1.07399	1.08904	1.10968		

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL

INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART6 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)				
473997.93	474016.79	474035.65	474054.51	473960.21	473979.07

3656133.41	2.42570	2.48318	2.54575	2.60640	2.66645
2.72767	2.79002	2.85581	2.92534		
3656114.44	2.31398	2.37005	2.44204	2.50252	2.55861
2.61572	2.66712	2.72113	2.78271		
3656095.47	2.19842	2.24635	2.31150	2.36959	2.42963
2.49765	2.52814	2.57280	2.62851		
3656076.50	2.09239	2.13058	2.18504	2.24195	2.30309
2.37636	2.39218	2.43046	2.48486		
3656057.53	2.00227	2.03480	2.09664	2.15021	2.19761
2.24090	2.27223	2.31797	2.37398		
3656038.56	1.92031	1.94903	2.00430	2.05105	2.09156
2.12310	2.16618	2.21701	2.27087		
3656019.59	1.84700	1.87113	1.91277	1.94898	1.98440
2.02179	2.06918	2.12293	2.17823		
3656000.62	1.76574	1.79116	1.82857	1.86454	1.89862
1.93609	1.97580	2.02254	2.07199		
3655981.65	1.69281	1.71839	1.75330	1.78801	1.82231
1.85598	1.88879	1.92927	1.97352		
3655962.68	1.63243	1.65532	1.68942	1.72100	1.75078

1.77970	1.81024	1.84798	1.89062		
3655943.71	|	1.58371	1.60966	1.64158	1.67195 1.70045
1.72553	1.75455	1.78641	1.82117		
3655924.74	|	1.54104	1.57238	1.60115	1.63273 1.66247
1.68283	1.71171	1.73568	1.75823		
3655905.77	|	1.48483	1.51534	1.54450	1.57755 1.60895
1.63493	1.66096	1.68224	1.69975		
3655886.80	|	1.43174	1.46049	1.49201	1.52426 1.55488
1.58357	1.60901	1.62887	1.64188		
3655867.83	|	1.37974	1.40679	1.44133	1.46976 1.49651
1.52645	1.55428	1.57378	1.58485		
3655848.86	|	1.33404	1.36057	1.38681	1.40971 1.43281
1.45894	1.49471	1.51670	1.52695		
3655829.89	|	1.29070	1.31674	1.33365	1.35332 1.37311
1.39296	1.43683	1.46101	1.47139		
3655810.92	|	1.24560	1.26854	1.29110	1.30969 1.32663
1.34443	1.38322	1.40509	1.41469		
3655791.95	|	1.20668	1.22300	1.24907	1.26581 1.28093
1.29851	1.33185	1.35162	1.36213		
3655772.98	|	1.17260	1.17994	1.20763	1.22265 1.23609
1.25503	1.28261	1.30124	1.31334		
3655754.01		1.12608	1.13918	1.16102	1.17805 1.19441
1.21304	1.23462	1.25221	1.26429		

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART6 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD	|			X-COORD (METERS)
(METERS)	|	474073.37	474092.23	474111.09

3656133.41	2.99882	3.07080	3.14347
3656114.44	2.84760	2.90808	2.96869
3656095.47	2.68489	2.74174	2.80124
3656076.50	2.53378	2.58734	2.64797
3656057.53	2.42310	2.47464	2.52419
3656038.56	2.32007	2.36381	2.40735
3656019.59	2.22211	2.25884	2.29517
3656000.62	2.11231	2.14760	2.18422
3655981.65	2.01375	2.04777	2.08144
3655962.68	1.93380	1.96530	1.99195
3655943.71	1.86010	1.88518	1.90700
3655924.74	1.79069	1.80880	1.82504
3655905.77	1.71928	1.73478	1.74850
3655886.80	1.65224	1.66429	1.67575
3655867.83	1.58923	1.59715	1.60766
3655848.86	1.52993	1.53818	1.54585
3655829.89	1.47496	1.48162	1.48771
3655810.92	1.42042	1.42740	1.43206
3655791.95	1.36817	1.37374	1.37878
3655772.98	1.31731	1.32238	1.32695
3655754.01	1.27084	1.27548	1.27965

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM_10 IN MICROGRAMS/M**3

**

X-COORD (M) Y-COORD (M) CONC X-COORD (M)

Y-COORD (M)	CONC			
474073.24	3656639.61	10.98790		473871.62
3656348.26	3.92741			
474258.27	3656563.57	69.55312		474177.36
3656568.85	27.17158			
474194.85	3656569.26	32.37650		474205.01
3656558.69	34.47686			
474265.58	3656513.97	44.76110		474216.39
3656507.06	26.68304			
474172.08	3656508.68	20.09059		474327.38
3656519.25	71.35864			
474343.64	3656519.25	74.46080		474329.00
3656506.65	56.70961			
474341.61	3656504.21	55.58028		474381.45
3656517.63	72.17470			
474372.10	3656510.31	62.77317		474385.92
3656502.59	52.91639			
474437.96	3656513.56	50.24524		474440.80
3656492.83	35.69457			
474442.02	3656460.71	24.08569		474376.98
3656474.53	34.55378			
474331.85	3656463.96	29.87522		474264.36
3656461.12	24.20739			
474257.86	3656490.80	32.28240		474215.17
3656466.00	18.69531			
474174.11	3656470.88	15.97460		474329.10
3656405.28	16.32241			
474328.62	3656430.63	20.55882		474263.57
3656422.50	16.75051			
474443.89	3656423.93	16.85987		474385.54
3656428.71	20.06856			
474384.58	3656401.45	15.63469		474441.02
3656388.06	12.78536			
474385.06	3656380.41	13.18544		474195.18
3656391.89	10.25728			
474210.96	3656416.28	12.71548		474155.48
3656390.93	9.31525			
474481.75	3656726.36	24.31449		474521.49
3656722.90	20.32109			
474517.00	3656691.80	25.90618		474480.37
3656745.71	20.70459			
474504.91	3656746.74	18.48298		474303.16
3656763.04	23.37006			
474353.38	3656768.31	22.90397		474402.17
3656758.74	23.72454			
474291.20	3656799.87	16.38325		474317.99
3656801.79	16.62089			
474344.30	3656800.83	16.89538		474368.69

3656799.40	16.94938			
	474392.61	3656798.44	16.68226	474418.43
3656799.87	15.83908			
	474195.54	3656793.18	12.79297	474216.11
3656795.09	13.77504			
	474238.11	3656800.83	14.34157	474487.09
3656620.26	50.34828			

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD |			X-COORD (METERS)
(METERS) |	474154.81	474193.09	474231.37
	474269.65	474307.93	

3656530.0 |	122.80002 (19120617)	147.86673 (20010619)	209.31884 (19120616)
	341.64717 (19120616)	394.11397 (19120616)	
3656484.3 |	109.22113 (21011421)	143.35640 (19120616)	201.64931 (19120616)
	249.02621 (19120616)	231.41617 (19120716)	
3656438.6 |	108.52179 (19120616)	137.58035 (19120616)	151.29292 (19120616)
	150.67530 (20010623)	168.42243 (19020320)	
3656392.9 |	102.90056 (19120616)	104.46185 (19120616)	107.51588 (20010607)
	123.82798 (20010623)	137.62916 (19020320)	
3656347.2 |	82.21269 (19120616)	85.01381 (19120702)	96.64218 (20010623)
	106.83099 (21011507)	113.11297 (20122923)	
3656301.5 |	63.78256 (19120702)	73.09837 (20010607)	81.61648 (20010623)
	88.87810 (19020320)	95.60705 (20122923)	

3656255.8 |	60.38213 (20010607)	63.93349 (20010623)	70.84871 (21011507)
76.58844 (19020320)	81.79536 (20122923)		
3656210.1 |	54.93230 (20010701)	57.42565 (20010623)	64.11926 (21011507)
67.42224 (19020320)	71.07767 (19012607)		
3656164.4 |	49.48914 (20010623)	51.46034 (21123002)	56.35475 (21011507)
58.59302 (19121607)	61.76215 (19012607)		
3656118.7 |	44.93484 (20010623)	47.40631 (21011507)	50.06487 (19020320)
52.03521 (19121607)	54.65916 (19012607)		
3656073.0 |	40.31799 (21123002)	42.92924 (21011507)	45.40433 (19020320)
46.64902 (20122923)	48.73778 (19012607)		
3656027.3 |	37.40007 (21123002)	38.88761 (21011507)	40.84438 (19020320)
42.44093 (20122923)	43.97837 (19012607)		
3655981.6 |	34.48513 (21011507)	35.68822 (19020320)	36.70343 (19020320)
38.35365 (20122923)	39.39130 (19012607)		
3655935.9 |	31.79723 (21011507)	32.86838 (19020320)	33.38944 (19121607)
34.73649 (20122923)	35.52462 (19012607)		
3655890.2 |	28.96887 (21011507)	30.14674 (19020320)	30.66847 (19121607)
31.58303 (20122923)	32.47977 (20012922)		
3655844.5 |	26.93670 (19020320)	27.69681 (19020320)	28.36847 (20122923)
29.02553 (19012607)	29.79148 (20012922)		
3655798.8 |	25.26434 (19020320)	25.47406 (19020320)	26.28479 (20122923)
26.78087 (19012607)	27.46009 (20012922)		
3655753.1 |	23.61115 (19020320)	23.58100 (19121607)	24.39960 (20122923)
24.82846 (19012607)	25.40624 (20012922)		
3655707.4 |	21.92867 (19020320)	21.94321 (19121607)	22.49459 (20122923)
22.77346 (19012607)	23.05388 (20012922)		
3655661.7 |	20.32564 (19020320)	20.66571 (19121607)	20.98268 (20122923)
21.30772 (19012607)	21.55348 (20012922)		
3655616.0	18.65885 (19020320)	19.15633 (19121607)	19.70515 (20122923)
20.04726 (19012607)	20.32355 (20012922)		

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD |				X-COORD (METERS)
(METERS) |	474346.21		474384.49	474422.77
474461.05		474499.33		

3656530.0 |	457.03537 (19120716)	464.25659 (19120716)	372.57635 (21011417)
308.81123 (19051018)	223.70025 (19051018)		
3656484.3 |	339.09263 (19120716)	342.90536 (19120716)	272.17982 (19120716)
206.09230 (21011417)	156.42932 (20101317)		
3656438.6 |	240.87206 (19120716)	252.85449 (19120716)	204.49826 (19120716)
175.99935 (19121518)	120.30486 (19020718)		
3656392.9 |	173.30295 (19120716)	191.91096 (19120716)	159.09009 (19120716)
135.57117 (21120303)	104.07127 (19121518)		
3656347.2 |	127.92223 (19120716)	149.23367 (19120716)	128.29743 (19120716)
112.51887 (21022821)	88.51051 (21120303)		
3656301.5 |	99.29567 (20012922)	117.97290 (19120716)	106.02769 (19120716)
97.31140 (21022821)	85.49920 (20012920)		
3656255.8 |	84.28485 (20012922)	94.63781 (19120716)	88.84153 (19120716)
82.80114 (19021804)	78.80408 (21022821)		
3656210.1 |	73.14117 (20012922)	76.94246 (19120716)	75.09882 (19120716)
71.98501 (19021804)	70.37077 (21022821)		
3656164.4 |	63.52507 (20012922)	63.40621 (21120406)	64.63891 (20012924)
63.81807 (21122924)	61.04585 (21022821)		
3656118.7 |	55.86023 (20012922)	55.69863 (21120406)	57.47035 (20012924)
57.24496 (21122924)	55.07871 (19021804)		
3656073.0 |	49.81000 (20012922)	49.49515 (19122701)	50.93441 (20012924)
50.89628 (21122924)	48.99896 (19021804)		
3656027.3 |	44.73588 (20012922)	43.72152 (19122701)	45.36154 (20012924)
45.31097 (19122503)	43.90938 (19122503)		
3655981.6 |	40.29778 (20012922)	39.27061 (19122701)	40.62584 (21120406)
40.86598 (19122503)	40.78275 (21122924)		
3655935.9 |	36.60356 (20012922)	35.31153 (19122701)	36.90707 (21120406)
37.53180 (20012924)	37.76082 (21122924)		
3655890.2 |	33.19623 (20012922)	32.20729 (19122701)	33.72246 (21120406)
34.54142 (20012924)	34.82570 (21122924)		
3655844.5 |	30.40913 (20012922)	29.53355 (19122701)	30.55508 (21120406)
31.56966 (20012924)	31.84850 (19122503)		
3655798.8 |	28.01716 (20012922)	26.78706 (19122701)	28.01619 (21120406)
28.86490 (20012924)	29.20891 (19122503)		
3655753.1 |	25.75280 (20012922)	24.63897 (19122701)	25.47854 (21120406)
26.49339 (21120406)	27.09167 (20012924)		
3655707.4 |	23.82386 (20012922)	22.45651 (19122701)	23.10043 (19122701)
24.45129 (21120406)	24.68408 (20012924)		
3655661.7 |	22.34219 (20012922)	21.03697 (19122701)	21.57193 (19122701)

22.64263 (21120406) 23.24414 (20012924)
 3655616.0 | 20.25298 (20012922) 19.40578 (20012922) 20.27596 (19122701)
 20.75381 (21120406) 21.16688 (20012924)
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD |			X-COORD (METERS)
(METERS) |	474537.61	474575.89	474614.17
474652.45	474690.73		

3656530.0 |	159.26100 (21010516)	124.83939 (21010516)	99.36097 (21010516)
81.96105 (20020305)	77.17024 (21021419)		
3656484.3 |	124.49007 (19021621)	110.73646 (19051018)	94.06602 (19051018)
81.55762 (21010516)	76.29290 (21010516)		
3656438.6 |	106.84088 (19010918)	92.87459 (19121517)	84.15725 (19021621)
75.02673 (20121517)	70.82672 (19012024)		
3656392.9 |	87.17225 (19020718)	81.63300 (19010918)	76.72766 (19012101)
72.78026 (19021621)	67.60943 (19021621)		
3656347.2 |	79.24037 (19121518)	74.86492 (19020718)	73.43312 (19010918)
69.85309 (19012101)	65.09028 (21022119)		
3656301.5 |	70.63162 (19121518)	68.52009 (19121518)	65.65502 (19020718)
63.34024 (19010918)	61.67299 (19010918)		
3656255.8 |	63.94622 (21120303)	59.85551 (19121518)	59.56291 (19121518)
56.27789 (19020718)	54.70227 (20020318)		
3656210.1 |	59.77664 (20012920)	49.58301 (21120303)	50.66492 (19121518)
51.32565 (19121518)	51.76331 (19020718)		

3656164.4 |	55.32193 (21022821)	46.55768 (21120303)	43.86658 (19121518)
47.29929 (19121518)	47.09957 (19121518)		
3656118.7 |	52.00783 (21022821)	45.52023 (20012920)	40.36665 (21120303)
41.36763 (19121518)	43.54815 (19121518)		
3656073.0 |	47.98595 (21022821)	43.65519 (21022821)	37.29757 (20012920)
36.61011 (21120303)	38.68974 (19121518)		
3656027.3 |	43.76114 (19021804)	42.38717 (21022821)	36.96885 (20012920)
33.86592 (21120303)	33.73340 (19121518)		
3655981.6 |	41.39547 (19021804)	41.38012 (21022821)	36.37989 (21022821)
32.14257 (20012920)	31.15459 (21120303)		
3655935.9 |	40.37119 (19021804)	37.53091 (21022821)	35.40181 (21022821)
32.71660 (20012920)	29.36773 (21120303)		
3655890.2 |	36.04046 (19021804)	35.14139 (19021804)	34.45234 (21022821)
32.66276 (20012920)	30.04321 (20012920)		
3655844.5 |	31.88149 (21122924)	32.83242 (19021804)	32.57827 (21022821)
30.89412 (21022821)	29.59165 (20012920)		
3655798.8 |	29.56619 (21122924)	29.96872 (19021804)	30.35025 (19021804)
29.88283 (21022821)	29.05612 (20012920)		
3655753.1 |	27.46467 (21122924)	26.85904 (19021804)	30.32876 (19021804)
30.36056 (21022821)	29.23028 (20012920)		
3655707.4 |	25.53738 (19122503)	25.44523 (21122924)	29.52800 (19021804)
29.62294 (20121918)	29.27354 (21022821)		
3655661.7 |	23.76754 (19122503)	23.59993 (21122924)	25.78065 (19021804)
28.62143 (19021804)	28.36725 (21022821)		
3655616.0	22.07179 (19122503)	22.19503 (19122503)	21.86237 (19021804)
27.05288 (19021804)	26.82290 (20121918)		

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L000001 , L000002
 , L000003 , L000004 , L000005 ,
 L000006 , L000007 , L000008 , L000009 , L000010
 , L000011 , L000012 , L000013 ,
 L000014 , L000015 , L000016 , L000017 , L000018
 , L000019 , L000020 , L000021 ,
 L000022 , L000023 , L000024 , L000025 , L000026
 , L000027 , L000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD |
(METERS) |
474843.85

474729.01

474882.13

474767.29

X-COORD (METERS)
474805.57

3656530.0 | 73.95809 (21021419) 70.52473 (19022822) 75.21237 (20122317)
87.38425 (21010418) 83.71592 (20021919)
3656484.3 | 72.24893 (21022020) 69.14793 (21022020) 69.18520 (20020305)
84.73588 (21120405) 83.96361 (20021619)
3656438.6 | 71.41509 (21022218) 75.35572 (21022218) 73.28047 (21022218)
81.08615 (19120517) 81.38707 (19010418)
3656392.9 | 68.18147 (20121517) 67.23706 (19012024) 71.05525 (20020306)
76.06057 (19011723) 77.58965 (20020719)
3656347.2 | 61.36349 (19021621) 57.62791 (19021621) 54.58631 (20121517)
52.13116 (19012024) 58.15770 (20020306)
3656301.5 | 58.79244 (19012101) 55.25790 (19121517) 53.20900 (19021621)
56.22878 (20121517) 68.58046 (21022021)
3656255.8 | 55.31136 (19010918) 53.37173 (19012101) 50.29751 (19121517)
55.44717 (20121817) 64.18465 (21011318)
3656210.1 | 52.42555 (20020318) 51.33054 (19010918) 49.42124 (19012101)
54.90888 (19012101) 63.15169 (21022219)
3656164.4 | 47.85282 (19020718) 50.28447 (21120318) 51.16490 (19011818)
57.44986 (19011818) 61.26076 (21022519)
3656118.7 | 43.49352 (19020718) 45.26425 (21011417) 49.14799 (21120318)
52.37003 (20012718) 55.97553 (19010718)
3656073.0 | 40.41796 (19121518) 43.27032 (19020718) 44.91228 (21011417)
45.09360 (21120318) 46.30038 (20020318)
3656027.3 | 36.35070 (19121518) 41.24080 (19121518) 41.66824 (19020718)
41.32644 (21011417) 43.23928 (21120318)
3655981.6 | 32.73532 (19121518) 38.03086 (19121518) 38.95452 (19121518)
39.24234 (19020718) 40.12201 (21011417)
3655935.9 | 29.72941 (21120303) 35.30228 (19121518) 37.32042 (19121518)
38.33183 (19121518) 43.95648 (21120319)
3655890.2 | 28.51029 (21120303) 31.60716 (21120303) 35.08887 (19121518)
38.15483 (19121518) 42.69864 (21120502)
3655844.5 | 27.01826 (21120303) 30.98284 (21120303) 31.02020 (19012105)
34.14659 (19121518) 38.93738 (21120419)
3655798.8 | 28.58900 (20012920) 31.23931 (21120303) 30.61622 (21120303)
31.19822 (19121024) 34.95643 (21120419)
3655753.1 | 28.47774 (20012920) 28.26624 (21120303) 29.65635 (21120303)
32.26568 (19121024) 36.72542 (19121024)
3655707.4 | 27.42010 (20012920) 26.58394 (20012920) 28.48366 (21120303)
30.65459 (21120303) 33.68187 (19121024)
3655661.7 | 26.68137 (20012920) 26.37128 (20012920) 27.55780 (21120303)
31.43910 (21120303) 32.28495 (20122407)
3655616.0 | 25.88819 (21022821) 26.40393 (20012920) 26.25171 (20012920)
29.88892 (21120303) 31.28829 (20122407)

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD | X-COORD (METERS)
(METERS) | 474920.41

3656530.0	84.00156 (20122620)
3656484.3	81.71888 (19022824)
3656438.6	79.10379 (19010418)
3656392.9	72.63958 (20020719)
3656347.2	66.29879 (21122220)
3656301.5	69.44538 (21120322)
3656255.8	68.54642 (19012518)
3656210.1	63.23239 (21011317)
3656164.4	61.84775 (21022219)
3656118.7	56.96744 (21022519)
3656073.0	52.32943 (19010718)
3656027.3	49.24858 (20012101)
3655981.6	46.02887 (21121518)
3655935.9	44.16759 (21011417)
3655890.2	42.92739 (21120319)
3655844.5	40.18428 (21120502)
3655798.8	39.09277 (21120502)
3655753.1	37.26302 (20011719)
3655707.4	35.57938 (19011020)
3655661.7	33.69984 (19121024)
3655616.0	30.89321 (19121024)

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 *** 22:48:51

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD (METERS)		X-COORD (METERS)
474224.32	474167.11	474186.18
	474243.39	474205.25

3657341.7 |	27.41951 (21012119)	28.45984 (19012920)	28.78360 (20122806)
29.70217 (19012020)	30.34934 (19012020)		
3657311.8 |	28.27109 (21012119)	29.71365 (21012119)	29.90386 (19012920)
30.44106 (19012020)	30.99889 (19012020)		
3657281.8 |	29.21645 (21012119)	31.18380 (21012119)	31.29241 (19012920)
31.48652 (19012020)	32.34321 (19012020)		
3657251.8 |	30.88717 (19011506)	32.69257 (21012119)	32.69130 (19012920)
32.88642 (20122806)	33.87146 (19012020)		
3657221.9 |	32.69988 (19012018)	34.19278 (21012119)	34.18437 (21012119)
34.50807 (19012920)	35.47618 (19012020)		
3657191.9 |	34.28573 (19012018)	35.63116 (19011506)	35.87210 (21012119)
36.14004 (19012920)	36.95373 (19012020)		
3657161.9 |	35.39528 (19012018)	37.50252 (19012018)	37.60728 (21012119)
37.88178 (19012920)	38.59293 (20122806)		
3657132.0 |	37.14463 (20122703)	39.58943 (19012018)	39.47223 (19011506)
40.01742 (21012119)	40.85600 (19012920)		
3657102.0 |	40.49422 (21122316)	41.64717 (19012018)	41.91366 (19012018)
42.43885 (21012119)	43.33730 (19012920)		
3657072.1 |	44.30263 (21122316)	45.00829 (21122316)	44.57634 (19012018)

44.86443 (21012119)	45.70557 (19012920)		
3657042.1 | 47.82209 (21122316)	49.83564 (21122316)	48.14447 (21122316)	
47.86004 (19012018)	48.74474 (21012119)		
3657012.1 | 50.97997 (21122316)	54.32583 (21122316)	54.27008 (21122316)	
51.64985 (19012018)	52.38816 (21012119)		
3656982.2 | 52.89903 (21122316)	58.49489 (21122316)	60.58963 (21122316)	
59.03593 (21122316)	56.42892 (19012018)		
3656952.2 | 56.36956 (20010819)	60.65757 (21122316)	65.52380 (21122316)	
66.23555 (21122316)	62.63304 (21122316)		
3656922.3 | 61.46932 (20121022)	62.90519 (19011805)	70.05273 (21122316)	
73.83595 (21122316)	72.25937 (21122316)		
3656892.3 | 66.97225 (20122724)	69.51461 (20121022)	74.19111 (21122316)	
82.11040 (21122316)	83.56322 (21122316)		
3656862.3 | 73.94491 (20011922)	76.31862 (20122724)	79.38880 (20121022)	
88.41133 (21122316)	95.05143 (21122316)		
3656832.4 | 82.11768 (19120423)	85.79682 (20011922)	88.74496 (20122724)	
94.78706 (21122316)	108.35419 (21122316)		
3656802.4 | 91.30736 (20022124)	96.62858 (19012921)	101.38883 (20011922)	
105.01411 (20122724)	122.40359 (21122316)		
3656772.5 | 102.02617 (19121405)	108.91100 (20022124)	116.13350 (19012921)	
122.32596 (20011922)	135.11291 (21122316)		
3656742.5 114.22784 (21011524)	122.85023 (19122217)	132.41971 (19121405)	
142.75323 (19012921)	151.38938 (20011922)		

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD |		X-COORD (METERS)
(METERS) |	474262.46	474281.53
		474300.60

474319.67

474338.74

3657341.7	|	30.38478 (19120320)	30.87094 (21121317)	31.30354 (19121322)
31.36292	(19121322)	31.12013 (20021004)		
3657311.8	|	30.86024 (19120320)	31.25109 (21121317)	31.93335 (19121322)
32.35445	(19121322)	32.39700 (20021004)		
3657281.8	|	32.93084 (19012020)	32.87781 (21121317)	33.32909 (19121322)
33.89632	(19121322)	34.50064 (20021004)		
3657251.8	|	34.86339 (19012020)	34.53396 (21121317)	35.03202 (19121322)
35.75769	(19121322)	36.35916 (20021004)		
3657221.9	|	36.73347 (19012020)	36.23240 (19120320)	36.71987 (19121322)
37.64029	(19121322)	38.37242 (20021004)		
3657191.9	|	38.37989 (19012020)	37.94867 (19120320)	38.30772 (19121322)
39.32706	(19121322)	40.30206 (20021004)		
3657161.9	|	40.30810 (19012020)	39.89659 (19120320)	40.08184 (19121322)
41.28701	(19121322)	42.52682 (20021004)		
3657132.0	|	42.45099 (19012020)	42.12995 (19012020)	42.09677 (19121322)
43.56179	(19121322)	45.02178 (20021004)		
3657102.0	|	44.85416 (19012020)	44.67777 (19012020)	44.31240 (19120320)
46.05797	(19121322)	47.76104 (19121322)		
3657072.1	|	47.05308 (19012020)	47.20921 (19012020)	46.87829 (19120320)
48.51860	(19121322)	50.43669 (19121322)		
3657042.1	|	49.75422 (19012920)	50.28497 (19012020)	49.85279 (19120320)
51.31376	(19121322)	53.23070 (19121322)		
3657012.1	|	53.28744 (19012920)	53.83786 (19012020)	53.51181 (19120320)
54.87489	(19121322)	56.77191 (19121322)		
3656982.2	|	57.19383 (19012920)	58.02541 (19012020)	58.35657 (19012020)
59.39713	(19121322)	60.49883 (19121322)		
3656952.2	|	62.07178 (21012119)	62.91691 (19012020)	63.91630 (19012020)
64.39317	(19121322)	65.25197 (19121322)		
3656922.3	|	67.84505 (21012119)	68.72622 (19012920)	69.51192 (19012020)
69.27066	(19121322)	69.80562 (19121322)		
3656892.3	|	78.62402 (21122316)	76.35242 (21012119)	77.30814 (19012020)
76.70256	(19121322)	77.39009 (19121322)		
3656862.3	|	93.80691 (21122316)	86.27905 (21012119)	87.03616 (19012020)
86.54736	(19012020)	87.33534 (19121322)		
3656832.4	|	112.19070 (21122316)	106.61421 (21122316)	99.50454 (19012920)
99.71378	(19012020)	99.88693 (19121322)		
3656802.4	|	133.70615 (21122316)	132.70462 (21122316)	121.62502 (21122316)
116.23932	(19012020)	115.65626 (19121322)		
3656772.5	|	158.09160 (21122316)	163.92939 (21122316)	156.90005 (21122316)
139.30133	(21122316)	135.62843 (19121322)		
3656742.5		184.95663 (21122316)	201.39645 (21122316)	199.79344 (21122316)
186.94127	(21122316)	161.13983 (19121322)		

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*** AERMET - VERSION 22112 *** ***

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD |			X-COORD (METERS)
(METERS) |	474357.81	474376.88	474395.95
	474415.02	474434.09	

3657341.7 |	30.44939 (20021004)	30.38332 (21021121)	30.25538 (19010818)
29.99939 (19010818)	29.59273 (20010118)		
3657311.8 |	31.90427 (20021004)	31.92423 (21021121)	31.80583 (19010818)
31.49376 (19010818)	31.05982 (20010118)		
3657281.8 |	33.61143 (20021004)	33.46929 (21021121)	33.40642 (19010818)
32.95628 (19010818)	32.72609 (20010118)		
3657251.8 |	35.44325 (20021004)	35.25801 (21021121)	35.15035 (19010818)
34.47237 (19010818)	34.31213 (20010118)		
3657221.9 |	37.31011 (20021004)	37.14393 (21021121)	37.06043 (19010818)
36.17650 (19010818)	36.00062 (20010118)		
3657191.9 |	39.23877 (20021004)	39.00430 (21021121)	38.84500 (19010818)
37.71937 (19010818)	37.64531 (20010118)		
3657161.9 |	41.27604 (20021004)	41.06803 (21021121)	40.90077 (19010818)
39.52658 (20010118)	39.29402 (20010118)		
3657132.0 |	43.54413 (20021004)	43.37856 (19010818)	43.22062 (19010818)
41.76087 (20010118)	41.47293 (19120318)		
3657102.0 |	45.99585 (20021004)	45.93574 (19010818)	45.60902 (19010818)
44.03129 (20010118)	43.74146 (19120318)		
3657072.1 |	48.67495 (20021004)	48.71449 (19010818)	48.11150 (19010818)
46.21590 (20010118)	46.14121 (19120318)		
3657042.1 |	51.50681 (20021004)	51.56211 (19010818)	50.48586 (19010818)
48.52934 (19120318)	48.54928 (19120318)		
3657012.1 |	54.94373 (21021121)	54.81377 (19010818)	53.18549 (19010818)

51.73650 (19120318)	51.70211 (20122119)		
3656982.2 | 58.74009 (21021121)	58.33519 (19010818)	56.16491 (20010118)	
55.63059 (19120318)	55.03325 (20122119)		
3656952.2 | 63.28142 (21021121)	62.63963 (19010818)	60.62566 (20010118)	
60.46084 (19120318)	58.91020 (20122119)		
3656922.3 | 67.47851 (20021004)	66.93878 (19010818)	65.54123 (19120318)	
65.53512 (20122119)	63.83160 (20011119)		
3656892.3 | 74.73583 (20021004)	73.82082 (19010818)	72.95743 (19120318)	
72.19798 (20122119)	69.78356 (20011119)		
3656862.3 | 84.18285 (20021004)	82.75109 (19010818)	82.14366 (19120318)	
80.24066 (20011119)	77.38300 (21012118)		
3656832.4 | 96.14958 (21021121)	93.97170 (19010818)	93.42173 (20122119)	
90.29550 (20011119)	88.27084 (21012118)		
3656802.4 | 111.34546 (19010818)	108.41118 (19120318)	107.18182 (20122119)	
102.83223 (21012118)	100.15457 (21012118)		
3656772.5 | 130.87735 (19010818)	127.27629 (20122119)	123.53639 (20122119)	
119.85287 (21012118)	118.06490 (21120119)		
3656742.5 155.95690 (19010818)	151.07881 (20122119)	144.84548 (20012318)	
142.44661 (20101417)	144.63890 (20101417)		

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD |		X-COORD (METERS)
(METERS) |	474453.16	474472.23
474510.37	474529.44	474491.30

3657341.7 |	29.68067 (20010118)	29.76649 (19120318)	29.96249 (19120318)
29.82941 (20122119)	29.60360 (20011119)		
3657311.8 |	31.04354 (20010118)	31.32057 (19120318)	31.37827 (19120318)
31.03784 (20122119)	30.72544 (20011119)		
3657281.8 |	32.59410 (20010118)	32.96296 (19120318)	33.01966 (20122119)
32.43931 (20011119)	32.09957 (20011119)		
3657251.8 |	34.23860 (19120318)	34.64380 (19120318)	34.56313 (20122119)
34.06981 (20011119)	33.45307 (20011119)		
3657221.9 |	36.08746 (19120318)	36.32805 (19120318)	36.22917 (20122119)
35.64891 (20011119)	34.84472 (20011621)		
3657191.9 |	37.85879 (19120318)	37.89634 (20122119)	37.80148 (20011119)
37.23167 (20011119)	36.25522 (20011621)		
3657161.9 |	39.70430 (19120318)	39.73894 (20122119)	39.89154 (20011119)
38.90200 (20011621)	38.34862 (20122218)		
3657132.0 |	41.66115 (19120318)	41.66639 (20122119)	41.90567 (20011119)
40.66928 (20011621)	40.52964 (20122218)		
3657102.0 |	43.74040 (20122119)	43.62754 (20011119)	43.92473 (20011119)
43.02788 (20122218)	42.96387 (21012118)		
3657072.1 |	45.81180 (20122119)	45.54723 (20011119)	45.66914 (20011621)
45.43344 (21012118)	45.87894 (21012118)		
3657042.1 |	48.20579 (20122119)	47.87321 (20011119)	47.82929 (20122218)
48.15152 (21012118)	47.74145 (21012118)		
3657012.1 |	51.28368 (20011119)	50.81019 (20012318)	51.38889 (21012118)
50.89915 (21012118)	49.81771 (20011620)		
3656982.2 |	53.92204 (20011119)	53.18284 (20122218)	54.91500 (21012118)
53.78956 (20011620)	52.30499 (21012618)		
3656952.2 |	57.09142 (20011119)	56.92197 (21012118)	56.90534 (21012118)
55.92860 (20011620)	57.16390 (21120119)		
3656922.3 |	61.84901 (20122218)	61.72098 (21012118)	60.20303 (20011620)
60.93479 (21120119)	64.29359 (21120119)		
3656892.3 |	68.62916 (21012118)	67.01124 (20011620)	66.43463 (21120119)
69.20496 (21120119)	70.46465 (21120119)		
3656862.3 |	76.36515 (21012118)	73.37078 (20011620)	75.71475 (21120119)
75.41326 (21120119)	72.89347 (21120119)		
3656832.4 |	85.11200 (20011620)	85.99484 (21120119)	85.03416 (21120119)
81.07065 (21120119)	77.79299 (20021118)		
3656802.4 |	99.93575 (21120119)	98.82019 (21120119)	93.63065 (21120119)
89.57201 (19012023)	86.33066 (19012023)		
3656772.5 |	116.79705 (21120119)	112.15009 (20101417)	105.55199 (19013019)
99.91213 (19012023)	93.14464 (19012918)		
3656742.5	139.11539 (20101417)	126.47454 (19013019)	117.30424 (19013019)
109.45147 (21020120)	104.34660 (19022620)		

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 *** AERMET - VERSION 22112 *** ***
 *** 22:48:51

VALUES FOR SOURCE GROUP: ALL *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD | X-COORD (METERS)
 (METERS) | 474548.51

 3657341.7 | 29.49767 (20011119)
 3657311.8 | 30.34437 (20011621)
 3657281.8 | 31.58578 (20011621)
 3657251.8 | 32.85650 (20011621)
 3657221.9 | 34.67264 (20122218)
 3657191.9 | 36.44658 (20122218)
 3657161.9 | 38.78931 (21012118)
 3657132.0 | 41.08598 (21012118)
 3657102.0 | 43.14008 (21012118)
 3657072.1 | 46.46973 (20011620)
 3657042.1 | 47.70671 (20011620)
 3657012.1 | 48.96240 (21012618)
 3656982.2 | 53.78650 (21120119)
 3656952.2 | 60.01261 (21120119)
 3656922.3 | 66.43519 (21120119)
 3656892.3 | 70.18532 (21120119)
 3656862.3 | 70.72983 (20021118)
 3656832.4 | 76.00858 (19013019)
 3656802.4 | 80.88049 (19012023)
 3656772.5 | 88.14022 (21020120)
 3656742.5 | 98.00157 (19022620)

▲ *** AERMOD - VERSION 22112 *** *** C:\Users\enuno\OneDrive -
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*** AERMET - VERSION 22112 *** ***

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART3 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD |			X-COORD (METERS)
(METERS) |	474566.30	474591.03	474615.76
474640.49	474665.22		

3657153.0 |	41.69843 (21012118)	42.57516 (21012618)	41.07017 (20011218)
42.86935 (21120119)	43.36556 (21120119)		
3657122.2 |	43.62757 (20011620)	44.47399 (21012618)	46.49017 (21120119)
46.39773 (21120119)	46.87545 (21120119)		
3657091.5 |	45.05672 (20011620)	47.09536 (21120119)	51.23328 (21120119)
55.82831 (21120119)	51.66421 (21120119)		
3657060.8 |	48.85137 (21012618)	52.92290 (21120119)	61.26205 (21120119)
61.52239 (21120119)	55.60295 (19122422)		
3657030.1 |	50.27336 (21120119)	54.23717 (21120119)	57.60150 (21120119)
63.57233 (19121320)	59.71053 (20122805)		
3656999.3 |	53.35155 (21120119)	58.38161 (21120119)	58.50376 (21120119)
64.82529 (19013019)	66.07623 (19013019)		
3656968.6 |	61.48453 (21120119)	63.29848 (21120119)	60.31988 (21010217)
58.93835 (20021118)	56.87722 (19012023)		
3656937.9 |	65.35766 (21120119)	63.16208 (21010217)	61.10192 (20021118)
57.94040 (19013019)	54.37059 (19013019)		
3656907.1 |	68.36483 (21120119)	66.24974 (20021118)	61.51591 (19013019)
57.11312 (19013019)	54.93438 (19012918)		
3656876.4 |	68.39844 (19013019)	66.40273 (19013019)	62.27906 (19013019)
59.64397 (19012918)	57.95530 (21020120)		
3656845.7 |	71.32884 (19013019)	66.46136 (19013019)	64.15058 (19012918)
62.67686 (21020120)	62.15674 (19022620)		
3656814.9 |	74.75674 (19012918)	71.30771 (21020120)	69.35867 (19022620)
67.12548 (19022620)	64.35538 (19022620)		
3656784.2 |	81.45754 (21020120)	78.20536 (19022620)	73.42336 (19022620)
67.75268 (19022620)	64.62410 (20020304)		

3656753.5 |	89.62766 (19022620)	80.78157 (19022620)	74.53502 (21020718)
77.15983 (21122507)	77.98978 (21020718)		
3656722.8 |	92.87466 (21020718)	87.78390 (21020718)	83.21920 (21020718)
80.59122 (21122507)	78.56897 (20022302)		
3656692.0 |	103.09899 (21020718)	94.08597 (20022302)	86.72111 (20022302)
80.57858 (20020819)	77.50926 (19013020)		
3656661.3 |	109.50325 (19013020)	99.44448 (19013020)	90.79619 (19013020)
84.57382 (19012919)	80.87640 (19012919)		
3656630.6 |	117.35248 (20012419)	104.39418 (21020118)	94.01154 (21020118)
87.23729 (21020118)	85.17205 (21021118)		
3656599.8 |	129.50416 (19122616)	113.27119 (19122616)	100.89220 (19122616)
94.20766 (19122616)	90.48653 (19122616)		
3656569.1 |	129.98919 (19122616)	114.09140 (19122616)	101.83817 (19122616)
93.19256 (19122616)	87.25469 (19122616)		
3656538.4	131.84736 (21010516)	110.48979 (21010516)	94.22987 (21010516)
84.84557 (21021419)	79.70371 (21021419)		

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 *** AERMET - VERSION 22112 *** ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART3 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD |			X-COORD (METERS)
(METERS) |	474689.95	474714.68	474739.41
474764.14	474788.87		

3657153.0 |	48.90108 (21120119)	62.16730 (21122018)	63.08467 (19121320)
61.52105 (19120719)	61.00335 (19120719)		
3657122.2 |	47.90269 (21120119)	50.79966 (19121320)	61.92594 (19120719)

64.75394 (19120719)	61.71981 (19120719)		
3657091.5 | 46.71407 (20122805)	51.11242 (20122805)	61.77087 (19120719)	
63.74688 (19120719)	62.30364 (20022219)		
3657060.8 | 53.39105 (19013019)	54.22849 (19013019)	66.49231 (20022219)	
69.41265 (19120808)	64.85235 (20101319)		
3657030.1 | 60.08683 (19013019)	66.92639 (19013019)	70.67868 (20022219)	
68.95373 (20101319)	67.78576 (19090301)		
3656999.3 | 63.49145 (19013019)	73.33601 (20022219)	73.36100 (19090301)	
71.88257 (19022621)	71.36696 (19022621)		
3656968.6 | 54.57577 (19012023)	63.46563 (21020120)	78.88485 (19022621)	
77.31715 (19022621)	74.55838 (21120818)		
3656937.9 | 54.55308 (19012918)	55.56158 (19012918)	58.64558 (21020120)	
65.89983 (21121620)	74.58662 (20012023)		
3656907.1 | 55.92730 (19012918)	57.06129 (19022620)	57.82048 (19022620)	
60.99818 (19022620)	63.67366 (20121719)		
3656876.4 | 58.31149 (19022620)	59.88122 (19022620)	57.95339 (19022620)	
53.52478 (19022620)	49.32922 (19022620)		
3656845.7 | 60.26046 (19022620)	58.37516 (19022620)	55.53392 (19022620)	
53.38214 (20020304)	53.83374 (21020718)		
3656814.9 | 61.34940 (19022620)	59.35360 (20020304)	61.55879 (21020718)	
65.24216 (21122507)	74.55848 (21122507)		
3656784.2 | 65.51219 (21020718)	65.68272 (21020718)	66.91374 (21020718)	
71.69905 (19122424)	81.60114 (19122424)		
3656753.5 | 74.03299 (21020718)	72.26578 (21020718)	72.13074 (20022302)	
76.52476 (20020819)	85.57304 (20020819)		
3656722.8 | 77.11005 (20022302)	76.98250 (20022302)	76.89016 (19011618)	
83.27355 (19011618)	92.36453 (20120417)		
3656692.0 | 77.59491 (19013020)	74.66691 (19013020)	74.74152 (19013020)	
84.55062 (21022618)	91.92824 (21022618)		
3656661.3 | 81.37828 (19012919)	78.80759 (20012419)	76.76930 (20012419)	
78.67748 (19120917)	93.74086 (20012519)		
3656630.6 | 84.03441 (21021118)	80.59862 (21021118)	75.86460 (21021118)	
73.65852 (20012418)	81.64088 (20012418)		
3656599.8 | 83.61316 (19122616)	76.35913 (19122616)	73.33379 (21021218)	
70.70274 (21021218)	68.56415 (21021218)		
3656569.1 | 82.12136 (19122616)	76.91414 (19122616)	72.56031 (19122616)	
67.98486 (20022618)	64.83813 (20122618)		
3656538.4 77.07346 (21021419)	75.86944 (19022822)	73.50894 (19022822)	
71.50976 (19022822)	72.86485 (20122317)		

^ *** AERMOD - VERSION 22112 *** *** C:\Users\enuno\OneDrive -
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 *** AERMET - VERSION 22112 *** ***
 *** 22:48:51

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): L0000001 , L0000002

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, L0000003 , L0000004 , L0000005 ,
, L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
, L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
, L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

```

*** NETWORK ID: UCART3 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

```

Y-COORD | X-COORD (METERS)
(METERS) | 474813.60 474838.33 474863.06
474887.79 474912.52

```

```

-----
-----
3657153.0 | 60.83536 (19120808) 61.67348 (19120808) 58.41067 (20101319)
55.77035 (21092424) 55.13892 (21101319)
3657122.2 | 60.43670 (19120808) 58.27643 (20101319) 58.05742 (19090301)
58.57546 (21101319) 58.92234 (19022621)
3657091.5 | 59.61642 (20101319) 60.91178 (19090301) 62.96573 (20100319)
63.68070 (21122508) 62.62315 (21122508)
3657060.8 | 62.82915 (19090301) 65.42031 (19022621) 68.51519 (21122508)
67.06916 (21122508) 64.29867 (21010419)
3657030.1 | 68.09504 (19022621) 70.06800 (19022621) 70.79893 (21122508)
68.53753 (21010419) 64.83770 (21010419)
3656999.3 | 70.46199 (19022621) 71.74528 (21120818) 71.88766 (21010419)
67.87114 (19102219) 67.96301 (19020919)
3656968.6 | 73.41040 (20012023) 74.24121 (20012023) 73.54423 (19020919)
72.68766 (19020919) 70.14869 (19020919)
3656937.9 | 75.07704 (20012023) 74.00923 (19020919) 74.65427 (19020919)
72.15370 (19020919) 69.95299 (20090404)
3656907.1 | 53.72293 (20121719) 50.47965 (20121719) 72.50149 (20012024)
75.19607 (21021002) 73.95004 (21021002)
3656876.4 | 48.22148 (20020304) 53.63552 (21122507) 73.13959 (19022419)
76.65920 (19022419) 73.99345 (20121118)
3656845.7 | 62.35424 (21122507) 78.98256 (20012118) 78.07187 (20012118)
77.75803 (20110518) 74.53183 (20012424)
3656814.9 | 83.87575 (20012008) 84.00930 (20121720) 83.02277 (20121720)
81.40035 (19011108) 79.47043 (20012424)
3656784.2 | 87.15225 (21020220) 87.82920 (21020220) 86.18022 (21020220)
84.02966 (20120217) 80.36012 (20120217)
3656753.5 | 91.58482 (20120217) 90.03242 (20120217) 88.74211 (19012718)
86.81657 (19012718) 83.15784 (19012718)
3656722.8 | 91.37921 (20120417) 90.10881 (19123017) 87.80925 (19123017)
84.56684 (21120907) 83.85362 (21120907)

```

3656692.0 |	93.45220 (21020619)	91.72048 (21020619)	89.55966 (21020619)
86.35408 (21020619)	85.51261 (20120418)		
3656661.3 |	95.98795 (19012218)	93.12919 (19020820)	92.08096 (21122017)
90.10467 (21122017)	86.66797 (20122621)		
3656630.6 |	93.74738 (21010617)	93.18590 (20012319)	91.38714 (20012319)
89.98741 (20012819)	87.16113 (20012819)		
3656599.8 |	86.63262 (20120717)	91.63453 (20012620)	91.13711 (20012620)
90.15820 (20120618)	87.30971 (20120618)		
3656569.1 |	64.62450 (20022618)	87.98752 (21020618)	88.66768 (20012521)
88.12822 (21021019)	86.27833 (21021019)		
3656538.4	79.06197 (19121507)	87.56980 (20021919)	87.44179 (20021919)
85.43346 (20021919)	85.58374 (20122620)		

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 *** AERMET - VERSION 22112 *** ***
 *** 22:48:51

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
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 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART3 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD |			X-COORD (METERS)
(METERS) |	474937.25	474961.98	474986.71
475011.44	475036.17		

3657153.0 |	55.09436 (19022621)	53.94785 (19022621)	40.88451 (21020120)
33.83881 (21020120)	28.04051 (19022620)		
3657122.2 |	59.15815 (19022621)	59.59328 (21122508)	56.48552 (21010419)
47.55972 (20012023)	35.47229 (19022620)		
3657091.5 |	60.82158 (21122508)	60.26266 (21010419)	57.47038 (21010419)
54.61980 (20012023)	46.78255 (20012023)		
3657060.8 |	62.42358 (21010419)	59.47664 (19102219)	58.47903 (19020919)

58.11403 (19020919)	55.27901 (19020919)		
3657030.1 | 62.75950 (19020919)	62.90731 (19020919)	61.64405 (19020919)	
59.14823 (19020919)	56.12684 (20091619)		
3656999.3 | 66.88063 (19020919)	64.15519 (19020919)	60.39929 (19012819)	
59.30374 (19012819)	57.93507 (20090404)		
3656968.6 | 66.18858 (19020919)	64.12467 (19012819)	61.98702 (20090404)	
60.27655 (21021002)	60.54343 (21021002)		
3656937.9 | 68.19359 (20090404)	66.04857 (21021002)	64.44514 (21021002)	
62.77566 (20101321)	60.71272 (20121118)		
3656907.1 | 70.35585 (21021002)	67.42417 (20101321)	64.41769 (20101321)	
62.27749 (20092923)	60.37092 (21101919)		
3656876.4 | 70.15218 (20110518)	67.63934 (21101919)	65.23644 (20112018)	
64.86111 (20012424)	63.90167 (20012424)		
3656845.7 | 73.44402 (20012424)	71.48722 (20012424)	69.52007 (20012424)	
67.17636 (20012424)	64.11164 (20012424)		
3656814.9 | 75.85377 (20012424)	71.54555 (20012424)	68.86150 (19120724)	
67.61977 (19120724)	65.77806 (19120724)		
3656784.2 | 77.34822 (19012519)	74.87903 (20120718)	71.95573 (20120718)	
70.31338 (20122017)	68.02902 (20122017)		
3656753.5 | 80.25940 (20122017)	76.22046 (20122017)	71.78729 (20122017)	
68.50335 (20122017)	66.66635 (21120907)		
3656722.8 | 81.27190 (21120907)	77.68243 (21120907)	73.70186 (19011918)	
71.84860 (19011918)	69.33809 (19011918)		
3656692.0 | 82.59097 (20120418)	78.82984 (20120418)	74.79415 (20120418)	
72.95540 (20120418)	69.60518 (20120418)		
3656661.3 | 82.77278 (20122621)	77.58511 (19011802)	74.93886 (19011802)	
73.08173 (20012819)	70.10274 (19011802)		
3656630.6 | 84.10425 (19120807)	80.76597 (19120807)	77.71970 (19120807)	
74.70490 (19120807)	70.63428 (20120618)		
3656599.8 | 84.06881 (20120618)	80.51643 (19120723)	75.87263 (19120723)	
72.13416 (19051306)	70.80004 (19120723)		
3656569.1 | 84.13360 (21021019)	80.43766 (21021019)	76.04455 (21122218)	
72.19575 (21122218)	68.71012 (21122218)		
3656538.4 84.01518 (20122620)	80.81086 (20122620)	77.52861 (20013118)	
74.25237 (20013118)	71.19374 (20013118)		

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 *** 22:48:51

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018

, L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART3 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD |		X-COORD (METERS)
(METERS) |	475060.90	

 3657153.0 | 28.86324 (19022620)
 3657122.2 | 29.86862 (19022620)
 3657091.5 | 37.21880 (20121719)
 3657060.8 | 45.24943 (20121719)
 3657030.1 | 51.20470 (19122203)
 3656999.3 | 55.07344 (20012024)
 3656968.6 | 56.62854 (19022419)
 3656937.9 | 57.45645 (20121118)
 3656907.1 | 58.42449 (20121720)
 3656876.4 | 60.98626 (19011108)
 3656845.7 | 62.67388 (20120217)
 3656814.9 | 64.79285 (19012519)
 3656784.2 | 65.97668 (20122017)
 3656753.5 | 65.88756 (21120907)
 3656722.8 | 67.22853 (19011918)
 3656692.0 | 68.43817 (20122621)
 3656661.3 | 68.62860 (20012819)
 3656630.6 | 67.24315 (20120618)
 3656599.8 | 68.04721 (20120618)
 3656569.1 | 68.02243 (21021019)
 3656538.4 | 66.46961 (20122620)

▲ *** AERMOD - VERSION 22112 *** *** C:\Users\enuno\OneDrive -
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 *** AERMET - VERSION 22112 *** ***
 *** 22:48:51

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,

, L0000019 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000020 , L0000021 ,
 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART4 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD |			X-COORD (METERS)
(METERS) |	473349.32	473378.33	473407.34
	473436.35	473465.36	

3657161.2 |	14.67314 (19013003)	15.11271 (19013003)	15.46322 (19013003)
15.73261 (19013003)	16.33187 (20012605)		
3657132.9 |	14.83607 (19011121)	15.42870 (19013003)	15.94076 (19013003)
16.53259 (19013003)	16.82180 (19013003)		
3657104.6 |	15.12070 (20010123)	15.61624 (19011121)	16.12495 (19013003)
16.94891 (19013003)	17.44870 (19013003)		
3657076.3 |	15.35833 (20010123)	15.98991 (20010123)	16.48582 (20010123)
17.03574 (19011121)	17.71157 (19013003)		
3657048.1 |	15.53373 (19011122)	16.17404 (20011707)	16.71757 (20010123)
17.34753 (20010123)	18.10931 (20011122)		
3657019.8 |	15.81331 (19011122)	16.40442 (19011122)	16.88209 (19011122)
17.49307 (20011707)	18.23395 (20011122)		
3656991.5 |	15.83081 (19020120)	16.42121 (20122302)	17.01561 (19011122)
17.65029 (19011122)	18.27531 (19011122)		
3656963.2 |	15.98640 (19020120)	16.56430 (19020120)	17.09382 (19020120)
17.65331 (20122302)	18.35760 (19011122)		
3656934.9 |	16.05389 (19012803)	16.59894 (19020120)	17.26642 (19020120)
17.94575 (19020120)	18.58638 (19020120)		
3656906.7 |	16.11530 (21010923)	16.69150 (19012803)	17.35892 (19012803)
18.02097 (19012803)	18.74596 (19020120)		
3656878.4 |	16.16592 (19020306)	16.77704 (19020306)	17.42663 (19020306)
18.10631 (21010923)	18.87378 (21010923)		
3656850.1 |	16.24708 (21021424)	16.86782 (21021424)	17.53685 (21021424)
18.25715 (19020306)	19.05568 (19020306)		
3656821.8 |	16.23505 (19020721)	16.92182 (19020721)	17.67208 (19020721)
18.38133 (21021424)	19.17543 (21021424)		
3656793.5 |	16.36469 (21021720)	17.07750 (21021720)	17.78628 (21021720)
18.43855 (21021720)	19.22108 (20122122)		
3656765.3 |	16.49036 (20121421)	17.14236 (20121421)	17.83850 (20121421)
18.52254 (20121421)	19.34155 (21021720)		
3656737.0 |	16.72015 (20022621)	17.34469 (20022621)	18.02710 (20022621)
18.79413 (20022621)	19.52841 (20022621)		
3656708.7 |	16.68503 (20022621)	17.38638 (20022621)	18.13444 (20022621)

18.96438 (20022621)	19.79507 (20022621)		
3656680.4 | 16.61560 (19120401)	17.28238 (19120401)	17.98990 (19120401)	
18.78258 (19010819)	19.64583 (19010819)		
3656652.1 | 16.53734 (19120401)	17.22743 (19120401)	17.96562 (19120401)	
18.75901 (19120401)	19.61403 (19120401)		
3656623.9 | 17.00462 (21122317)	17.68754 (21122317)	18.41725 (21122317)	
19.20421 (21122317)	20.05400 (21122317)		
3656595.6 17.39933 (21122317)	18.10553 (21122317)	18.85982 (21122317)	
19.67292 (21122317)	20.55461 (21122317)		

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 *** AERMET - VERSION 22112 *** ***
 *** 22:48:51

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART4 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD |			X-COORD (METERS)
(METERS) |	473494.37	473523.38	473552.39
473581.40	473610.41		

3657161.2 |	16.92116 (20012605)	17.57906 (19120324)	18.57683 (19120324)
19.42774 (21011524)	20.54790 (21011524)		
3657132.9 |	17.15676 (21020724)	17.81222 (20012605)	18.39250 (20012605)
19.75351 (19120324)	20.77975 (19120324)		
3657104.6 |	17.86023 (19013003)	18.15284 (19013003)	18.66749 (20012605)
20.13924 (20012605)	21.07481 (19120324)		
3657076.3 |	18.36275 (19013003)	18.90777 (19013003)	19.32186 (19013003)
20.34040 (21020724)	21.40852 (20012605)		
3657048.1 |	18.62271 (19011121)	19.26112 (19013003)	20.00779 (19013003)
21.21008 (19013003)	21.84973 (19013003)		

3657019.8 |	19.02010 (20011122)	19.68530 (20011122)	20.40261 (19011121)
21.72270 (19013003)	22.61542 (19013003)		
3656991.5 |	19.07439 (20011707)	19.93651 (20011707)	20.98394 (20011122)
22.08263 (20011122)	22.87059 (19011121)		
3656963.2 |	19.16456 (19011122)	20.03598 (19011122)	21.11967 (20011707)
22.24592 (20011707)	23.40832 (20011122)		
3656934.9 |	19.18320 (19020120)	20.03032 (20122302)	21.36800 (19011122)
22.54546 (19011122)	23.53692 (20011707)		
3656906.7 |	19.57431 (19020120)	20.39449 (19020120)	21.55208 (19020120)
22.61406 (20122302)	23.71593 (19011122)		
3656878.4 |	19.71357 (19012803)	20.55344 (19012803)	21.75424 (19020120)
23.02650 (19020120)	24.05496 (19020120)		
3656850.1 |	19.87660 (19020306)	20.84828 (19020306)	22.00195 (21010923)
23.10381 (19012803)	24.21504 (19012803)		
3656821.8 |	20.00408 (21021424)	20.95174 (21021424)	22.14540 (19020306)
23.30043 (19020306)	24.45704 (19020306)		
3656793.5 |	20.07134 (19020721)	21.03831 (19020721)	22.24170 (21021424)
23.39813 (21021424)	24.59374 (21021424)		
3656765.3 |	20.20429 (21021720)	21.19909 (21021720)	22.37500 (21021720)
23.46631 (21021720)	24.65321 (19020721)		
3656737.0 |	20.30179 (20121421)	21.30568 (20121421)	22.51324 (20121421)
23.56036 (20121421)	24.73886 (21021720)		
3656708.7 |	20.68676 (20022621)	21.70423 (20022621)	22.85943 (20022621)
23.96760 (20022621)	25.15422 (20022621)		
3656680.4 |	20.57327 (19010819)	21.60094 (19010819)	22.73293 (19010819)
23.92226 (19010819)	25.22393 (20022621)		
3656652.1 |	20.53185 (19120401)	21.52833 (19120401)	22.63294 (19120401)
23.82624 (19120401)	25.11596 (19120401)		
3656623.9 |	20.96666 (21122317)	21.95309 (21122317)	23.03490 (21122317)
24.21742 (21122317)	25.50156 (21122317)		
3656595.6	21.49997 (21122317)	22.51959 (21122317)	23.62387 (21122317)
24.83359 (21122317)	26.15483 (21122317)		

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 *** AERMET - VERSION 22112 *** ***
 *** 22:48:51

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART4 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)	473639.42	473668.43	X-COORD (METERS)
473726.45	473755.46		473697.44

3657161.2 |	21.39719 (21011524)	22.29000 (21021520)	23.55599 (19122304)
25.10506 (19122217)	26.78151 (19121405)		
3657132.9 |	21.67037 (21011524)	23.06121 (21011524)	23.88483 (21021520)
24.90704 (19122304)	26.65041 (19122217)		
3657104.6 |	22.00971 (19120324)	23.57208 (21011524)	24.64713 (21011524)
25.36793 (21021520)	26.90105 (19122304)		
3657076.3 |	22.28144 (20012605)	24.07035 (19120324)	25.07138 (19120324)
26.29678 (21011524)	27.69852 (21011524)		
3657048.1 |	22.66545 (20012605)	24.48742 (20012605)	25.59387 (19120324)
26.84406 (19120324)	28.61581 (21011524)		
3657019.8 |	23.48257 (19013003)	24.89016 (19013003)	26.01462 (20012605)
27.30694 (20012605)	29.30169 (19120324)		
3656991.5 |	24.11746 (19013003)	25.77449 (19013003)	26.74802 (19013003)
27.86244 (20012605)	29.92885 (20012605)		
3656963.2 |	24.64822 (20011122)	26.00214 (19011121)	27.55212 (19013003)
29.14379 (19013003)	30.74304 (19013003)		
3656934.9 |	25.00646 (20011707)	26.90443 (20011122)	28.08754 (20011122)
29.77829 (19013003)	32.01349 (19013003)		
3656906.7 |	25.31752 (19011122)	27.09909 (19011122)	28.50164 (20011707)
30.62184 (20011122)	32.70338 (20011122)		
3656878.4 |	25.50184 (19020120)	27.38913 (20011222)	28.86221 (19011122)
30.84131 (19011122)	33.25635 (20011707)		
3656850.1 |	25.82939 (19020120)	27.86924 (19020120)	29.27766 (19020120)
31.17270 (20011222)	33.62310 (19011122)		
3656821.8 |	26.00410 (21010923)	28.02211 (19012803)	29.44482 (19012803)
31.71390 (19020120)	33.94148 (19020120)		
3656793.5 |	26.09239 (19020306)	28.19165 (19020306)	29.54719 (19020306)
31.44654 (21010923)	33.27418 (19012803)		
3656765.3 |	26.26923 (19020721)	28.20662 (19020721)	29.62148 (21021424)
31.46102 (21021424)	33.26252 (19020306)		
3656737.0 |	26.38484 (21021720)	28.20679 (21021720)	29.78662 (21021720)
31.58420 (20122122)	33.47972 (19020721)		
3656708.7 |	26.69185 (20022621)	28.28708 (20022621)	29.88009 (20121421)
31.67328 (20121421)	33.54313 (20121421)		
3656680.4 |	26.87593 (20022621)	28.51186 (20022621)	30.24848 (20022621)
32.10404 (20022621)	34.11915 (20022621)		
3656652.1 |	26.64818 (19120401)	28.11782 (19120401)	29.80306 (19120401)

31.67593 (19120401)	33.67373 (19010819)		
3656623.9 | 26.93991 (21122317)	28.44825 (21122317)	30.15152 (21122317)	
32.06959 (21122317)	34.12381 (21122317)		
3656595.6 27.60147 (21122317)	29.20459 (21122317)	30.95278 (21122317)	
32.91659 (21122317)	35.11851 (21122317)		

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART4 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD |			X-COORD (METERS)
(METERS) |	473784.47	473813.48	473842.49
473871.50	473900.51		

3657161.2 |	28.06899 (21022501)	28.89520 (20022124)	29.31087 (20022124)
29.20172 (19012921)	28.24502 (19012921)		
3657132.9 |	28.23038 (19121405)	28.98458 (21022501)	29.86670 (20022124)
29.24924 (20022124)	29.18688 (19012921)		
3657104.6 |	28.69235 (19122217)	29.73458 (19121405)	30.41784 (21022501)
30.46480 (20022124)	30.21533 (20022124)		
3657076.3 |	29.01798 (19122304)	30.11726 (19122217)	30.91478 (19121405)
30.96067 (21022501)	31.40841 (20022124)		
3657048.1 |	30.05226 (21011524)	30.03478 (19122304)	31.09384 (19122217)
31.35568 (19121405)	31.66091 (21022501)		
3657019.8 |	31.14724 (21011524)	31.83362 (21011524)	31.59591 (21021520)
32.12896 (19122217)	33.07642 (19121405)		
3656991.5 |	31.77521 (19120324)	32.85413 (19120324)	33.12264 (21011524)
33.41960 (21021520)	34.37541 (19122217)		

3656963.2 |	31.98651 (20012605)	32.53373 (19120324)	33.83255 (19120324)
34.67342 (21011524)	35.14273 (21011524)		
3656934.9 |	33.22454 (19013003)	33.32462 (20012605)	34.23729 (20012605)
35.20034 (19120324)	36.41872 (21011524)		
3656906.7 |	33.91986 (19013003)	34.95143 (19013003)	34.95067 (19013003)
36.03947 (20012605)	37.60135 (19120324)		
3656878.4 |	34.59268 (20011122)	35.12839 (20011122)	36.55687 (19013003)
37.95241 (19013003)	39.33353 (19013003)		
3656850.1 |	34.64079 (19011122)	35.97477 (20011707)	37.30291 (20010123)
39.02680 (19011121)	41.52717 (19013003)		
3656821.8 |	35.26910 (19020120)	36.60323 (19011122)	38.57450 (19011122)
40.29318 (20011707)	42.93229 (20010123)		
3656793.5 |	34.71824 (19012803)	36.86219 (19020120)	39.08877 (19020120)
41.07692 (20122302)	44.06780 (19011122)		
3656765.3 |	35.03714 (19020306)	37.04561 (21010923)	39.35016 (19012803)
41.98243 (19020120)	45.41442 (19020120)		
3656737.0 |	35.35765 (19020721)	37.53924 (21021424)	39.84745 (21021424)
42.82100 (19020306)	46.18633 (19020306)		
3656708.7 |	35.51079 (21021720)	37.74198 (21021720)	40.26290 (21021720)
43.25584 (19020721)	46.88065 (21021424)		
3656680.4 |	36.14102 (20022621)	38.44375 (20022621)	41.09713 (20022621)
44.08340 (20022621)	47.61096 (20121421)		
3656652.1 |	35.93774 (19010819)	38.48477 (19010819)	41.40753 (19010819)
44.77027 (20022621)	48.68584 (20022621)		
3656623.9 |	36.34791 (21122317)	38.83669 (21122317)	41.69122 (21122317)
44.97177 (21122317)	48.72715 (21122317)		
3656595.6	37.47453 (21122317)	40.04224 (21122317)	43.03635 (21122317)
46.45884 (21122317)	50.39301 (19013004)		

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART4 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD | X-COORD (METERS)
(METERS) | 473929.52

3657161.2	28.70878	(19120423)
3657132.9	29.38880	(19120422)
3657104.6	30.60865	(19012921)
3657076.3	31.55734	(19012921)
3657048.1	32.73794	(20022124)
3657019.8	33.69359	(21022501)
3656991.5	35.35646	(19121405)
3656963.2	36.47825	(19122304)
3656934.9	38.09996	(21011524)
3656906.7	39.68810	(19120324)
3656878.4	41.33194	(20012605)
3656850.1	43.87607	(19013003)
3656821.8	45.70128	(19011121)
3656793.5	47.29587	(20011707)
3656765.3	48.93888	(19020120)
3656737.0	50.08804	(19012803)
3656708.7	51.08527	(21021424)
3656680.4	51.70162	(21021720)
3656652.1	53.17085	(20022621)
3656623.9	53.05422	(21122317)
3656595.6	54.93477	(19013004)

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART5 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

Y-COORD |				X-COORD (METERS)
(METERS) |	473515.31		473541.10	473566.89
	473592.68	473618.47		

3656340.1 |	21.19727 (19122401)	22.18260 (21011423)	23.12868 (21011423)
24.07419 (21011423)	24.87958 (21011423)		
3656330.7 |	21.21325 (21011423)	22.24610 (21011423)	23.11666 (21011423)
24.00454 (21011423)	24.90274 (19120617)		
3656321.4 |	21.18397 (21011423)	22.18643 (21011423)	22.97461 (21011423)
23.95406 (19120617)	24.87649 (19120617)		
3656312.1 |	21.03354 (21011423)	22.01765 (21011423)	22.86934 (19120617)
23.88207 (19120617)	24.71091 (19120617)		
3656302.7 |	20.82727 (21011423)	21.91912 (19120617)	22.78768 (19120617)
23.71629 (19120617)	24.45699 (19012601)		
3656293.4 |	20.68617 (19120617)	21.82951 (19120617)	22.63959 (19120617)
23.47064 (19120617)	24.26501 (19011222)		
3656284.0 |	20.62347 (19120617)	21.62694 (19120617)	22.41823 (19120617)
23.25736 (19011222)	24.14183 (19121021)		
3656274.7 |	20.49717 (19120617)	21.35348 (19120617)	22.23935 (19012601)
23.12228 (19121021)	23.99768 (19121021)		
3656265.4 |	20.30946 (19120617)	21.10923 (19012601)	22.12413 (19121021)
22.99632 (19121021)	23.83051 (21011424)		
3656256.0 |	20.12448 (19012601)	20.98238 (19121021)	22.05165 (19121021)
22.80626 (19121021)	23.78260 (21011424)		
3656246.7 |	20.00273 (19011222)	20.92076 (19121021)	21.91052 (19121021)
22.76139 (21011424)	23.65731 (21011424)		
3656237.3 |	19.94870 (19121021)	20.79625 (19121021)	21.84727 (21011424)
22.66973 (21011424)	23.49953 (20010619)		
3656228.0 |	19.84126 (19121021)	20.62329 (21011424)	21.71228 (21011424)
22.46742 (21011424)	23.41892 (20010619)		
3656218.7 |	19.69392 (21011605)	20.55030 (21011424)	21.47255 (21011424)
22.35027 (20010619)	23.24899 (20010619)		
3656209.3 |	19.63283 (21011424)	20.42063 (21011424)	21.26555 (20010619)
22.23364 (20010619)	23.10876 (21011421)		
3656200.0 |	19.55189 (21011424)	20.24281 (21011424)	21.16148 (20010619)
22.08179 (21011421)	22.93059 (21011421)		
3656190.6 |	19.40190 (21011424)	20.22424 (20010619)	21.03155 (20010619)
21.92785 (21011421)	22.69109 (21011421)		
3656181.3 |	19.30534 (20010619)	20.15580 (20010619)	20.93631 (21011421)
21.72706 (21011421)	22.40049 (21011421)		
3656172.0 |	19.25228 (20010619)	20.07005 (21011421)	20.80339 (21011421)
21.46770 (21011421)	22.05421 (21011421)		
3656162.6 |	19.14154 (20010619)	19.95247 (21011421)	20.61782 (21011421)
21.19865 (21011421)	21.67463 (21011421)		

3656153.3 | 19.06766 (21011421) 19.78438 (21011421) 20.38205 (21011421)
 20.87240 (21011421) 21.39907 (21011603)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART5 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)
473721.63	473695.84
473644.26	473670.05
473747.42	

 3656340.1 | 25.80840 (19120617) 26.96601 (19120617) 27.99513 (19120617)
 28.98182 (19012601) 30.31072 (19121021)
 3656330.7 | 25.85311 (19120617) 26.93628 (19120617) 27.86522 (19012601)
 28.99225 (19121021) 30.20842 (19121021)
 3656321.4 | 25.73631 (19120617) 26.75349 (19012601) 27.79631 (19121021)
 28.92309 (19121021) 30.10165 (21011424)
 3656312.1 | 25.47416 (19012601) 26.53361 (19011222) 27.66575 (19121021)
 28.74349 (21011424) 30.00084 (21011424)
 3656302.7 | 25.30768 (19011222) 26.42040 (19121021) 27.42857 (21011424)
 28.70652 (21011424) 29.83455 (20010619)
 3656293.4 | 25.21770 (19121021) 26.21596 (19121021) 27.39114 (21011424)
 28.54833 (21011424) 29.82533 (20010619)
 3656284.0 | 25.04110 (19121021) 26.10455 (21011424) 27.21496 (21011424)
 28.46562 (20010619) 29.74434 (21011421)
 3656274.7 | 24.90937 (21011424) 25.98578 (21011424) 27.05190 (20010619)
 28.35342 (20010619) 29.68119 (21011421)
 3656265.4 | 24.82910 (21011424) 25.77617 (21011424) 26.97156 (20010619)

28.23899 (21011421)	29.49917 (21011421)		
3656256.0 | 24.66507 (21011424)	25.72465 (20010619)	26.85549 (21011421)	
28.08328 (21011421)	29.18840 (21011421)		
3656246.7 | 24.56960 (20010619)	25.60278 (20010619)	26.74026 (21011421)	
27.82971 (21011421)	28.79227 (21011421)		
3656237.3 | 24.50401 (20010619)	25.50953 (21011421)	26.53459 (21011421)	
27.48344 (21011421)	28.29164 (21011421)		
3656228.0 | 24.35151 (21011421)	25.36432 (21011421)	26.26458 (21011421)	
27.03854 (21011421)	27.98869 (21011603)		
3656218.7 | 24.20787 (21011421)	25.14936 (21011421)	25.91310 (21011421)	
26.53789 (21011603)	27.74216 (19120704)		
3656209.3 | 23.98376 (21011421)	24.84752 (21011421)	25.49669 (21011421)	
26.33240 (21011603)	27.50131 (19120704)		
3656200.0 | 23.69300 (21011421)	24.45387 (21011421)	25.14495 (21011603)	
26.13036 (19120704)	27.18988 (19120704)		
3656190.6 | 23.33173 (21011421)	23.94810 (21011421)	24.91546 (21011603)	
25.90833 (19120704)	26.93489 (21011723)		
3656181.3 | 22.92053 (21011421)	23.66023 (21011603)	24.70057 (19120704)	
25.62345 (19120704)	26.71687 (21011723)		
3656172.0 | 22.49417 (21011603)	23.40580 (21011603)	24.45370 (19120704)	
25.42381 (21011723)	26.43659 (21011723)		
3656162.6 | 22.35658 (21011603)	23.25795 (19120704)	24.16131 (19120704)	
25.19743 (21011723)	26.03212 (21011723)		
3656153.3 22.17673 (19120704)	23.05617 (19120704)	23.97597 (21011723)	
24.91596 (21011723)	25.74639 (21122921)		

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L000001 , L000002
 , L000003 , L000004 , L000005 ,
 L000006 , L000007 , L000008 , L000009 , L000010
 , L000011 , L000012 , L000013 ,
 L000014 , L000015 , L000016 , L000017 , L000018
 , L000019 , L000020 , L000021 ,
 L000022 , L000023 , L000024 , L000025 , L000026
 , L000027 , L000028 , . . . ,

*** NETWORK ID: UCART5 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD |
(METERS) |
473850.58

473773.21

473876.37

473799.00

X-COORD (METERS)
473824.79

3656340.1 | 31.69243 (19121021) 33.23137 (19122402) 34.97186 (20010619)
37.08916 (21011421) 39.22716 (21011421)
3656330.7 | 31.55107 (21011424) 32.97940 (19122402) 34.81898 (20010619)
36.85986 (21011421) 38.66996 (21011421)
3656321.4 | 31.42931 (21011424) 32.95969 (20010619) 34.69411 (21011421)
36.45956 (21011421) 37.94353 (21011421)
3656312.1 | 31.31598 (20010619) 32.89309 (21011421) 34.46715 (21011421)
35.90304 (21011421) 37.06627 (21011421)
3656302.7 | 31.21679 (20010619) 32.82932 (21011421) 34.11701 (21011421)
35.19888 (21011421) 36.64622 (19120704)
3656293.4 | 31.13571 (21011421) 32.64232 (21011421) 33.64911 (21011421)
34.54587 (21011603) 36.26925 (19120704)
3656284.0 | 31.01078 (21011421) 32.26035 (21011421) 33.01411 (21011421)
34.19857 (19120704) 35.74985 (19120704)
3656274.7 | 30.77824 (21011421) 31.77217 (21011421) 32.61967 (21011603)
33.85331 (19120704) 35.42315 (20120801)
3656265.4 | 30.43302 (21011421) 31.17389 (21011603) 32.37496 (19120704)
33.38817 (20120801) 35.00642 (20120801)
3656256.0 | 29.94178 (21011421) 30.92520 (21011603) 32.05297 (19120704)
33.15949 (20120801) 34.44539 (20120801)
3656246.7 | 29.51141 (21011603) 30.68880 (19120704) 31.64202 (20120801)
32.82516 (20120801) 33.99227 (19120706)
3656237.3 | 29.26807 (19120704) 30.38442 (19120704) 31.41211 (20120801)
32.40292 (20120801) 33.55310 (19012503)
3656228.0 | 29.06311 (19120704) 30.06331 (21011723) 31.10721 (20120801)
32.08922 (21122921) 33.17695 (19012503)
3656218.7 | 28.75040 (19120704) 29.88164 (21011723) 30.73129 (21011723)
31.74593 (21122921) 32.83851 (20020122)
3656209.3 | 28.45513 (21011723) 29.60683 (21011723) 30.50521 (21122921)
31.45751 (19012503) 32.61914 (20020122)
3656200.0 | 28.23518 (21011723) 29.21420 (21011723) 30.25283 (21122921)
31.18651 (20020122) 32.38998 (21011706)
3656190.6 | 27.93031 (21011723) 28.91599 (21122921) 29.95132 (19012503)
31.04053 (20020122) 32.28503 (21011706)
3656181.3 | 27.54586 (21011723) 28.60638 (21122921) 29.66789 (20020122)
30.82817 (20020122) 32.11188 (21011706)
3656172.0 | 27.26115 (21122921) 28.30170 (19012503) 29.54351 (20020122)
30.73499 (21011706) 31.85137 (21011706)
3656162.6 | 26.97498 (21122921) 27.95449 (19012503) 29.25330 (20020122)
30.52782 (21011706) 31.45774 (21011706)
3656153.3 | 26.66878 (19012503) 27.76615 (20020122) 28.96240 (21011706)
30.23906 (21011706) 30.97544 (21011706)

*** AERMET - VERSION 22112 ***
*** 22:48:51

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART5 ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3
**

Y-COORD (METERS)			X-COORD (METERS)
473979.53	473902.16	473927.95	473953.74
	474005.32		

3656340.1 |	41.07431 (21011421)	42.74578 (21011603)	45.21588 (19120704)
47.79404 (20120801)	50.10204 (19120706)		
3656330.7 |	40.14377 (21011421)	42.24330 (19120704)	44.63307 (20120801)
46.94733 (20120801)	49.26334 (19012503)		
3656321.4 |	39.46366 (21011603)	41.63301 (19120704)	44.08982 (20120801)
46.29367 (21122921)	48.52718 (20020122)		
3656312.1 |	39.03608 (19120704)	41.10912 (20120801)	43.30861 (20120801)
45.63961 (19012503)	48.03733 (21011706)		
3656302.7 |	38.48321 (19120704)	40.56811 (20120801)	42.72457 (21122921)
45.10425 (20020122)	47.78659 (21011706)		
3656293.4 |	38.07519 (20120801)	39.86008 (20120801)	42.13563 (19012503)
44.64119 (20020122)	47.41951 (21011706)		
3656284.0 |	37.58754 (20120801)	39.26320 (19120706)	41.42189 (20020122)
44.19225 (21011706)	46.63162 (21011706)		
3656274.7 |	36.95471 (20120801)	38.70894 (19012503)	40.90011 (20020122)
43.70779 (21011706)	46.87960 (19120616)		
3656265.4 |	36.44894 (19120706)	38.12947 (19012503)	40.38518 (21011706)
43.04592 (21011706)	47.13009 (19120616)		
3656256.0 |	35.95542 (19012503)	37.72190 (20020122)	40.01877 (21011706)
42.18904 (21011706)	46.83019 (19120616)		
3656246.7 |	35.46830 (19012503)	37.28551 (21011706)	39.52053 (21011706)

41.36582 (19120616)	46.26984 (19120616)		
3656237.3 | 35.04859 (20020122)	37.04842 (21011706)	38.88318 (21011706)	
41.25997 (19120616)	45.42835 (19120616)		
3656228.0 | 34.69486 (20020122)	36.69618 (21011706)	38.15832 (21011706)	
41.07389 (19120616)	44.57836 (19120616)		
3656218.7 | 34.47628 (21011706)	36.23956 (21011706)	37.36303 (21011706)	
40.74536 (19120616)	43.68741 (19120616)		
3656209.3 | 34.25522 (21011706)	35.67060 (21011706)	37.12878 (21011501)	
40.25161 (19120616)	42.60925 (19120616)		
3656200.0 | 33.93922 (21011706)	35.01798 (21011706)	36.91299 (19120616)	
39.53870 (19120616)	41.25445 (19120616)		
3656190.6 | 33.52512 (21011706)	34.46304 (21011501)	36.59314 (19120616)	
38.62695 (19120616)	39.59987 (19012423)		
3656181.3 | 33.01767 (21011706)	34.25865 (21011501)	36.13718 (19120616)	
37.57067 (19120616)	38.97461 (19123102)		
3656172.0 | 32.44724 (21011706)	33.96858 (21011501)	35.52765 (19120616)	
36.48711 (20022705)	38.29302 (19123102)		
3656162.6 | 32.22158 (21011501)	33.69206 (21011501)	35.06079 (19120616)	
36.19290 (19012423)	37.81135 (20013003)		
3656153.3 32.10351 (21011501)	33.37736 (21011501)	34.61354 (20022705)	
35.95884 (19123102)	37.44363 (19012605)		

^ *** AERMOD - VERSION 22112 *** *** C:\Users\enuno\OneDrive -
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 *** AERMET - VERSION 22112 *** ***
 *** 22:48:51

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART5 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD | X-COORD (METERS)
 (METERS) | 474031.11

3656340.1	53.06306 (20020122)
3656330.7	52.44177 (21011706)
3656321.4	51.76540 (21011706)
3656312.1	50.90361 (21011706)
3656302.7	50.08553 (19120616)
3656293.4	50.80386 (19120616)
3656284.0	51.45903 (19120616)
3656274.7	51.83929 (19120616)
3656265.4	51.96320 (19120616)
3656256.0	51.03207 (19120616)
3656246.7	49.69925 (19120616)
3656237.3	48.15441 (19120616)
3656228.0	46.47568 (19120616)
3656218.7	44.68903 (19120616)
3656209.3	43.27026 (20013003)
3656200.0	42.61238 (20013003)
3656190.6	41.87608 (19012605)
3656181.3	41.21442 (19012605)
3656172.0	40.49646 (19121718)
3656162.6	39.91638 (19121718)
3656153.3	39.37636 (21022022)

^ *** AERMOD - VERSION 22112 *** *** C:\Users\enuno\OneDrive -
 Dudek\Desktop\HARP2\HARP\Ocean_Bluff\OCEAN *** 04/21/23
 *** AERMET - VERSION 22112 *** ***
 *** 22:48:51

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART6 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD (METERS)	473733.89	473752.75	X-COORD (METERS)	473771.61
	473790.47	473809.33		

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-----
3656133.4 |      24.71647 (21122921)      25.36797 (19012503)      26.11083 (20020122)
      26.88774 (20020122)      27.76704 (21011706)
3656114.4 |      24.21478 (19012503)      25.01195 (20020122)      25.78396 (20020122)
      26.51914 (21011706)      27.27914 (21011706)
3656095.5 |      23.80000 (20020122)      24.56168 (20020122)      25.48577 (21011706)
      26.08332 (21011706)      26.56493 (21011706)
3656076.5 |      23.33264 (21011706)      24.26918 (21011706)      25.04486 (21011706)
      25.41528 (21011706)      25.79217 (20122403)
3656057.5 |      23.05518 (21011706)      23.81256 (21011706)      24.37747 (21011706)
      24.73360 (20122403)      25.49076 (21011501)
3656038.6 |      22.54507 (21011706)      23.01539 (21011706)      23.50122 (20122403)
      24.20519 (21011501)      24.75634 (21011501)
3656019.6 |      21.84324 (21011706)      22.18202 (20122403)      22.84940 (21011501)
      23.40382 (21011501)      23.72860 (21011501)
3656000.6 |      21.18168 (20122403)      21.82265 (21011501)      22.34079 (21011501)
      22.69419 (21011501)      23.18191 (20022705)
3655981.6 |      20.89690 (21011501)      21.38304 (21011501)      21.73363 (21011501)
      22.19370 (20022705)      22.59322 (20022705)
3655962.7 |      20.58679 (21011501)      20.90730 (21011501)      21.32128 (20022705)
      21.70600 (20022705)      22.12414 (19012423)
3655943.7 |      20.15771 (21011501)      20.53808 (20022705)      20.93624 (20022705)
      21.32462 (19012423)      21.87501 (19123102)
3655924.7 |      19.80541 (20022705)      20.18059 (20022705)      20.53578 (19012423)
      21.14610 (19123102)      21.65020 (19123102)
3655905.8 |      19.54305 (20022705)      19.77440 (19012423)      20.22908 (19123102)
      20.76160 (19123102)      21.13529 (19012605)
3655886.8 |      19.14222 (20022705)      19.52530 (19012423)      19.94865 (19123102)
      20.27065 (19012605)      20.61898 (19012605)
3655867.8 |      18.86638 (19012423)      19.27653 (19123102)      19.58733 (19123102)
      19.81714 (19012605)      20.19435 (19121718)
3655848.9 |      18.53698 (19123102)      18.84510 (19123102)      19.10168 (19012605)
      19.31506 (19121718)      19.71453 (19121718)
3655829.9 |      18.17315 (19123102)      18.38087 (19012605)      18.55459 (19012605)
      18.92269 (19121718)      19.24404 (21022022)
3655810.9 |      17.75491 (19012605)      17.94948 (19012605)      18.24923 (19121718)
      18.55877 (21022022)      18.77616 (21022022)
3655791.9 |      17.36102 (19012605)      17.60510 (19121718)      17.88172 (19121718)
      18.21113 (21022022)      18.52407 (19120702)
3655773.0 |      16.98043 (19121718)      17.25877 (19121718)      17.54536 (21022022)
      17.90562 (19120702)      18.26689 (19120702)
3655754.0 |      16.67046 (19121718)      16.92597 (21022022)      17.16256 (21022022)
      17.59656 (19120702)      17.87962 (19120702)

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^ *** AERMOD - VERSION 22112 ***      *** C:\Users\enuno\OneDrive -
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*** AERMET - VERSION 22112 ***      ***

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***      22:48:51

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART6 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD |			X-COORD (METERS)
(METERS) |	473828.19	473847.05	473865.91
	473884.77	473903.63	

3656133.4 |	28.64916 (21011706)	29.29977 (21011706)	29.72410 (20122403)
30.73425 (21011501)	31.58638 (21011501)		
3656114.4 |	27.88492 (21011706)	28.39333 (20122403)	29.34253 (21011501)
30.03095 (21011501)	30.66265 (20022705)		
3656095.5 |	27.03213 (20122403)	27.99488 (21011501)	28.65267 (21011501)
29.07867 (20022705)	29.72516 (20022705)		
3656076.5 |	26.66927 (21011501)	27.38232 (21011501)	27.76984 (20022705)
28.29566 (20022705)	28.74089 (19012423)		
3656057.5 |	26.09597 (21011501)	26.51276 (20022705)	27.05225 (20022705)
27.43388 (19012423)	28.08791 (19123102)		
3656038.6 |	25.13287 (21011501)	25.75195 (20022705)	26.15972 (19012423)
26.83199 (19123102)	27.39770 (19123102)		
3656019.6 |	24.28524 (20022705)	24.76142 (20022705)	25.52883 (19123102)
26.25682 (19123102)	26.71731 (19012605)		
3656000.6 |	23.60015 (20022705)	24.16982 (19012423)	24.89656 (19123102)
25.42198 (19012605)	25.87479 (19121718)		
3655981.6 |	23.06327 (19012423)	23.70138 (19123102)	24.20542 (19012605)
24.64590 (19012605)	25.23672 (19121718)		
3655962.7 |	22.71413 (19123102)	23.21975 (19123102)	23.73397 (19012605)
24.23314 (19121718)	24.73860 (21022022)		
3655943.7 |	22.37324 (19123102)	22.84321 (19012605)	23.36989 (19121718)
23.87764 (21022022)	24.39557 (19120702)		
3655924.7 |	22.06841 (19012605)	22.49515 (19121718)	23.07754 (21022022)
23.53621 (21022022)	24.23533 (19120702)		

3655905.8 |	21.48097 (19012605)	22.00502 (19121718)	22.50677 (21022022)
23.07761 (19120702)	23.68869 (19120702)		
3655886.8 |	21.06727 (19121718)	21.53256 (21022022)	21.98413 (19120702)
22.59305 (19120702)	23.06001 (19120702)		
3655867.8 |	20.63717 (21022022)	21.05113 (21022022)	21.61557 (19120702)
22.04540 (19120702)	22.32895 (19120702)		
3655848.9 |	20.11225 (21022022)	20.62863 (19120702)	21.16826 (19120702)
21.47722 (19120702)	21.99451 (20010607)		
3655829.9 |	19.61283 (19120702)	20.13970 (19120702)	20.63865 (19120702)
20.97025 (20010607)	21.59345 (20010607)		
3655810.9 |	19.23984 (19120702)	19.64161 (19120702)	19.95662 (19120702)
20.54329 (20010607)	21.05092 (20010607)		
3655791.9 |	18.88201 (19120702)	19.14940 (19120702)	19.56289 (20010607)
20.17913 (20010607)	20.54143 (20010607)		
3655773.0 |	18.53470 (19120702)	18.71666 (20010607)	19.26817 (20010607)
19.85296 (20010607)	20.05279 (20010607)		
3655754.0 |	18.03820 (19120702)	18.41180 (20010607)	18.80726 (20010607)
19.14881 (20010607)	19.22622 (20010607)		

^ *** AERMOD - VERSION 22112 *** *** C:\Users\enuno\OneDrive -
 Dudek\Desktop\HARP2\HARP\Ocean_Bluff\OCEAN *** 04/21/23
 *** AERMET - VERSION 22112 *** ***
 *** 22:48:51

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART6 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD |			X-COORD (METERS)
(METERS) |	473922.49	473941.35	473960.21
473979.07	473997.93		

3656133.4	32.41386 (20022705)	33.35095 (20022705)	34.32962 (20013003)
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35.37550 (20013003)	36.21671 (19012605)		
3656114.4 31.55190 (20022705)	32.64820 (19012423)	33.74666 (20013003)	
34.57102 (19012605)	35.50278 (19121718)		
3656095.5 | 30.44719 (19012423)	31.59934 (20013003)	32.47916 (19012605)	
33.41605 (19121718)	34.69745 (21022022)		
3656076.5 | 29.52516 (19123102)	30.34667 (19012605)	31.18234 (19121718)	
32.34247 (21022022)	33.82191 (19120702)		
3656057.5 | 28.65246 (19123102)	29.53684 (19012605)	30.51905 (21022022)	
31.48030 (19120702)	32.51296 (19120702)		
3656038.6 | 27.84199 (19012605)	28.76990 (19121718)	29.66396 (21022022)	
30.65546 (19120702)	31.21459 (19120702)		
3656019.6 | 27.15689 (19121718)	27.96378 (21022022)	28.79348 (19120702)	
29.55000 (19120702)	30.02872 (20010607)		
3656000.6 | 26.44181 (21022022)	27.19940 (19120702)	28.07110 (19120702)	
28.57377 (19120702)	29.36894 (20010607)		
3655981.6 | 25.77494 (21022022)	26.63431 (19120702)	27.27292 (19120702)	
27.82858 (20010607)	28.60011 (20010607)		
3655962.7 | 25.33284 (19120702)	26.06516 (19120702)	26.45876 (19120702)	
27.23472 (20010607)	27.71852 (20010607)		
3655943.7 | 25.08757 (19120702)	25.61410 (19120702)	26.23264 (20010607)	
26.86649 (20010607)	27.09797 (20010607)		
3655924.7 | 24.86543 (19120702)	25.29417 (20010607)	26.12834 (20010607)	
26.62723 (20010607)	26.68260 (19120622)		
3655905.8 | 24.14562 (19120702)	24.86844 (20010607)	25.57319 (20010607)	
25.95141 (20010607)	26.40663 (20010701)		
3655886.8 | 23.60055 (20010607)	24.38166 (20010607)	24.92288 (20010607)	
25.27907 (19120622)	26.06122 (20010701)		
3655867.8 | 23.09990 (20010607)	23.80263 (20010607)	24.12451 (20010607)	
24.66271 (20010701)	25.45063 (20010701)		
3655848.9 | 22.62584 (20010607)	23.02312 (20010607)	23.27377 (19120622)	
23.91067 (20010701)	24.46664 (20010701)		
3655829.9 | 22.09209 (20010607)	22.16878 (20010607)	22.59171 (20010701)	
23.13021 (20010701)	23.46661 (20010622)		
3655810.9 | 21.36683 (20010607)	21.66571 (19120622)	22.19214 (20010701)	
22.54855 (20010701)	22.97098 (20010623)		
3655791.9 | 20.61158 (20010607)	21.21869 (20010701)	21.69048 (20010701)	
21.91601 (20010622)	22.50658 (20010623)		
3655773.0 | 20.07300 (19120622)	20.79088 (20010701)	21.11720 (20010701)	
21.40502 (20010623)	22.01096 (20010623)		
3655754.0 | 19.58279 (20010701)	20.15828 (20010701)	20.43126 (20010701)	
20.97058 (20010623)	21.47128 (20010623)		

^ *** AERMOD - VERSION 22112 *** *** C:\Users\enuno\OneDrive -
 Dudek\Desktop\HARP2\HARP\Ocean_Bluff\OCEAN *** 04/21/23
 *** AERMET - VERSION 22112 *** ***
 *** 22:48:51

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART6 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD |			X-COORD (METERS)
(METERS) |	474016.79	474035.65	474054.51
474073.37	474092.23		

3656133.4 |	37.34278 (21022022)	38.70466 (19120702)	39.97136 (19120702)
41.14965 (20010607)	42.34673 (20010607)		
3656114.4 |	36.56173 (19120702)	37.79246 (19120702)	38.57660 (20010607)
39.96894 (20010607)	40.58164 (20010607)		
3656095.5 |	35.56009 (19120702)	36.27718 (19120702)	37.32501 (20010607)
38.20044 (20010607)	38.75814 (19120622)		
3656076.5 |	34.24788 (19120702)	34.79698 (20010607)	35.89562 (20010607)
36.31245 (20010607)	37.32249 (20010701)		
3656057.5 |	32.89662 (19120702)	33.91107 (20010607)	34.74501 (20010607)
35.28367 (19120622)	36.38542 (20010701)		
3656038.6 |	31.98428 (20010607)	32.95637 (20010607)	33.49267 (20010607)
34.53534 (20010701)	35.24963 (20010622)		
3656019.6 |	31.11520 (20010607)	31.89403 (20010607)	32.66624 (19120622)
33.66190 (20010701)	34.46137 (20010623)		
3656000.6 |	30.08559 (20010607)	30.50834 (20010607)	31.62736 (20010701)
32.32085 (20010701)	33.33836 (20010623)		
3655981.6 |	28.97718 (20010607)	29.53720 (19120622)	30.53410 (20010701)
31.36200 (20010623)	32.24446 (20010623)		
3655962.7 |	27.88698 (19120622)	28.79597 (20010701)	29.57366 (20010701)
30.70928 (20010623)	31.34600 (20010623)		
3655943.7 |	27.52322 (19120622)	28.29210 (20010701)	28.97209 (20010623)
30.02603 (20010623)	30.34584 (20010623)		
3655924.7 |	27.44729 (20010701)	27.89123 (20010701)	28.54092 (20010623)
29.29053 (20010623)	29.29344 (20010623)		
3655905.8 |	27.09044 (20010701)	27.46082 (20010622)	28.07437 (20010623)
28.37312 (20010623)	28.46607 (21123002)		
3655886.8 |	26.58519 (20010701)	27.12570 (20010623)	27.49734 (20010623)
27.43606 (20010623)	27.76607 (21123002)		

3655867.8	|	25.98367 (20010622)	26.64350 (20010623)	26.82376 (20010623)
26.50488	(21123002)	27.01766 (21123002)		
3655848.9	|	25.35251 (20010623)	25.99295 (20010623)	26.02117 (20010623)
25.97298	(21123002)	26.35913 (21123002)		
3655829.9	|	24.69750 (20010623)	25.26583 (20010623)	25.17972 (20010623)
25.43789	(21123002)	25.65983 (21123002)		
3655810.9	|	24.03730 (20010623)	24.43259 (20010623)	24.40897 (21123002)
24.80945	(21123002)	25.00045 (21011507)		
3655791.9	|	23.33495 (20010623)	23.57306 (20010623)	23.85062 (21123002)
24.14583	(21123002)	24.36287 (21011507)		
3655773.0	|	22.59916 (20010623)	22.71524 (20010623)	23.29698 (21123002)
23.43282	(21123002)	23.70158 (21011507)		
3655754.0		21.81907 (20010623)	22.12407 (21123002)	22.64880 (21123002)
22.80842	(21011507)	23.08061 (21011507)		

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART6 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD	|		X-COORD (METERS)
(METERS)	|	474111.09	

3656133.4	|	43.04390 (19120622)
3656114.4	|	41.62551 (20010701)
3656095.5	|	39.97393 (20010701)
3656076.5	|	38.35901 (20010623)
3656057.5	|	37.48179 (20010623)
3656038.6	|	36.47365 (20010623)

3656019.6	35.31932 (20010623)
3656000.6	33.97391 (20010623)
3655981.6	32.61603 (20010623)
3655962.7	31.49643 (21123002)
3655943.7	30.74362 (21123002)
3655924.7	29.89635 (21123002)
3655905.8	29.03116 (21123002)
3655886.8	28.12679 (21123002)
3655867.8	27.34140 (21011507)
3655848.9	26.66668 (21011507)
3655829.9	25.98360 (21011507)
3655810.9	25.27374 (21011507)
3655791.9	24.54355 (21011507)
3655773.0	23.77817 (21011507)
3655754.0	23.06413 (21011507)

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM_10 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
474073.24	3656639.61	90.53505	(20022621)	473871.62
3656348.26	39.12997 (21011421)			
474258.27	3656563.57	294.35846	(19120616)	474177.36
3656568.85	149.61549 (19012703)			
474194.85	3656569.26	165.56282	(19012703)	474205.01
3656558.69	171.02223 (21011423)			

474265.58	3656513.97	320.51540	(19120616)	474216.39
3656507.06	180.79713	(19120616)		
474172.08	3656508.68	126.49001	(21011421)	474327.38
3656519.25	419.13608	(19120716)		
474343.64	3656519.25	428.64372	(19120716)	474329.00
3656506.65	384.19352	(19120716)		
474341.61	3656504.21	388.45615	(19120716)	474381.45
3656517.63	432.43341	(19120716)		
474372.10	3656510.31	411.81216	(19120716)	474385.92
3656502.59	389.74526	(19120716)		
474437.96	3656513.56	309.32408	(21011417)	474440.80
3656492.83	258.93563	(19121518)		
474442.02	3656460.71	206.90200	(19121518)	474376.98
3656474.53	323.23682	(19120716)		
474331.85	3656463.96	269.29038	(19120716)	474264.36
3656461.12	191.86202	(19120616)		
474257.86	3656490.80	262.83614	(19120616)	474215.17
3656466.00	170.17015	(19120616)		
474174.11	3656470.88	120.92359	(19120616)	474329.10
3656405.28	160.22070	(19120716)		
474328.62	3656430.63	195.08665	(19120716)	474263.57
3656422.50	137.03942	(20010623)		
474443.89	3656423.93	163.24417	(21120303)	474385.54
3656428.71	237.26553	(19120716)		
474384.58	3656401.45	201.64659	(19120716)	474441.02
3656388.06	140.66365	(21022821)		
474385.06	3656380.41	178.75742	(19120716)	474195.18
3656391.89	103.03698	(19120616)		
474210.96	3656416.28	124.59621	(19120616)	474155.48
3656390.93	102.59590	(19120616)		
474481.75	3656726.36	128.06707	(19013019)	474521.49
3656722.90	114.56047	(19022620)		
474517.00	3656691.80	125.34181	(21122507)	474480.37
3656745.71	121.58866	(19013019)		
474504.91	3656746.74	109.55500	(19012918)	474303.16
3656763.04	167.98029	(21122316)		
474353.38	3656768.31	134.91867	(20021004)	474402.17
3656758.74	131.03347	(21012118)		
474291.20	3656799.87	130.84168	(21122316)	474317.99
3656801.79	116.74441	(19012020)		
474344.30	3656800.83	115.85694	(19121322)	474368.69
3656799.40	111.89295	(19010818)		
474392.61	3656798.44	109.86534	(20122119)	474418.43
3656799.87	104.07452	(21012118)		
474195.54	3656793.18	102.75440	(19012921)	474216.11
3656795.09	106.99115	(20011922)		
474238.11	3656800.83	117.56738	(21122316)	474487.09
3656620.26	188.87197	(19122616)		

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

** CONC OF PM_10 IN MICROGRAMS/M**3

**

GROUP ID	NETWORK	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV,
ZHILL, ZFLAG)	OF TYPE	GRID-ID	
ALL	1ST HIGHEST VALUE IS	97.00839 AT (	474384.49, 3656529.97, 96.10,
96.10,	0.00) GC UCART1		
	2ND HIGHEST VALUE IS	95.24156 AT (	474346.21, 3656529.97, 94.90,
94.90,	0.00) GC UCART1		
	3RD HIGHEST VALUE IS	81.93310 AT (	474422.77, 3656529.97, 96.50,
96.50,	0.00) GC UCART1		
	4TH HIGHEST VALUE IS	80.56241 AT (	474307.93, 3656529.97, 93.60,
93.60,	0.00) GC UCART1		
	5TH HIGHEST VALUE IS	74.46080 AT (	474343.64, 3656519.25, 94.87,
94.87,	0.00) DC		
	6TH HIGHEST VALUE IS	72.17470 AT (	474381.45, 3656517.63, 96.00,
96.00,	0.00) DC		
	7TH HIGHEST VALUE IS	71.35864 AT (	474327.38, 3656519.25, 94.38,
94.38,	0.00) DC		
	8TH HIGHEST VALUE IS	69.55312 AT (	474258.27, 3656563.57, 90.15,
90.15,	0.00) DC		
	9TH HIGHEST VALUE IS	62.77317 AT (	474372.10, 3656510.31, 95.98,
95.98,	0.00) DC		
	10TH HIGHEST VALUE IS	56.70961 AT (	474329.00, 3656506.65, 94.40,
94.40,	0.00) DC		

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

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF HIGHEST 1-HR

RESULTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

GROUP ID (XR, YR, ZELEV, ZHILL, ZFLAG)	AVERAGE CONC OF TYPE	NETWORK GRID-ID	DATE (YYMMDDHH)	RECEPTOR
ALL HIGH 1ST HIGH VALUE IS 3656529.97, 96.10, 96.10,	464.25659 0.00)	GC UCART1	ON 19120716: AT (	474384.49,

ALL HIGH 1ST HIGH VALUE IS 464.25659 ON 19120716: AT (474384.49, 3656529.97, 96.10, 96.10, 0.00) GC UCART1

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

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

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

A Total of 0 Fatal Error Message(s)
A Total of 2 Warning Message(s)
A Total of 1272 Informational Message(s)

A Total of 26304 Hours Were Processed

A Total of 701 Calm Hours Identified

A Total of 571 Missing Hours Identified (2.17 Percent)

***** FATAL ERROR MESSAGES *****

*** NONE ***

***** WARNING MESSAGES *****

ME W186 451 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
0.50

ME W187 451 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

*** AERMOD Finishes Successfully ***

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** MODEL SETUP OPTIONS SUMMARY

** Model Options Selected:

- * Model Uses Regulatory DEFAULT Options
- * Model Is Setup For Calculation of Average CONCentration Values.
- * NO GAS DEPOSITION Data Provided.
- * NO PARTICLE DEPOSITION Data Provided.
- * Model Uses NO DRY DEPLETION. DDPLETE = F
- * Model Uses NO WET DEPLETION. WETDPLT = F
- * Stack-tip Downwash.
- * Model Accounts for ELEVated Terrain Effects.
- * Use Calms Processing Routine.
- * Use Missing Data Processing Routine.
- * No Exponential Decay.
- * Model Uses URBAN Dispersion Algorithm for the SBL for 165 Source(s),
for Total of 1 Urban Area(s):
Urban Population = 3276208.0 ; Urban Roughness Length = 1.000 m
- * Urban Roughness Length of 1.0 Meter Used.
- * ADJ_U* - Use ADJ_U* option for SBL in AERMET
- * CCVR_Sub - Meteorological data includes CCVR substitutions
- * TEMP_Sub - Meteorological data includes TEMP substitutions
- * Model Assumes No FLAGPOLE Receptor Heights.
- * The User Specified a Pollutant Type of: PM_10

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

**This Run Includes: 165 Source(s); 1 Source Group(s); and 2700
Receptor(s)

with: 0 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 165 VOLUME source(s)
and: 0 AREA type source(s)
and: 0 LINE source(s)
and: 0 RLINE/RLINEXT source(s)
and: 0 OPENPIT source(s)
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)
and: 0 SWPOINT source(s)

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							
19	01	01	1	01	-6.7	0.101	-9.000	-9.000	-999.	77.	13.9	0.03	0.93	
1.00	1.57	25.	7.9	280.3	2.0									
19	01	01	1	02	-8.6	0.115	-9.000	-9.000	-999.	94.	15.9	0.03	0.93	
1.00	1.79	35.	7.9	279.8	2.0									
19	01	01	1	03	-16.3	0.162	-9.000	-9.000	-999.	156.	28.8	0.03	0.93	
1.00	2.45	31.	7.9	279.2	2.0									
19	01	01	1	04	-8.4	0.114	-9.000	-9.000	-999.	93.	15.6	0.03	0.93	
1.00	1.77	41.	7.9	278.1	2.0									
19	01	01	1	05	-13.0	0.143	-9.000	-9.000	-999.	129.	22.4	0.03	0.93	
1.00	2.18	30.	7.9	279.2	2.0									
19	01	01	1	06	-12.3	0.139	-9.000	-9.000	-999.	124.	21.2	0.03	0.93	
1.00	2.10	24.	7.9	278.8	2.0									
19	01	01	1	07	-13.6	0.146	-9.000	-9.000	-999.	134.	23.5	0.03	0.93	
1.00	2.20	6.	7.9	279.8	2.0									
19	01	01	1	08	-15.9	0.231	-9.000	-9.000	-999.	267.	69.9	0.03	0.93	
0.50	3.42	40.	7.9	280.9	2.0									
19	01	01	1	09	30.2	0.206	0.499	0.005	148.	225.	-26.1	0.03	0.93	
0.29	2.61	41.	7.9	283.1	2.0									
19	01	01	1	10	77.6	0.226	0.818	0.005	254.	258.	-13.4	0.03	0.93	
0.22	2.67	7.	7.9	284.8	2.0									
19	01	01	1	11	110.3	0.226	1.328	0.005	763.	257.	-9.4	0.03	0.93	
0.20	2.57	17.	7.9	286.4	2.0									
19	01	01	1	12	125.8	0.231	1.462	0.005	892.	267.	-8.8	0.03	0.93	
0.19	2.62	2.	7.9	287.0	2.0									
19	01	01	1	13	123.8	0.281	1.512	0.005	1004.	358.	-16.1	0.03	0.93	
0.19	3.35	353.	7.9	287.5	2.0									
19	01	01	1	14	104.6	0.245	1.470	0.005	1090.	292.	-12.7	0.03	0.93	
0.20	2.88	7.	7.9	288.8	2.0									
19	01	01	1	15	68.4	0.246	1.295	0.005	1142.	293.	-19.6	0.03	0.93	
0.23	3.07	64.	7.9	288.8	2.0									
19	01	01	1	16	18.1	0.311	0.835	0.005	1153.	416.	-149.4	0.03	0.93	
0.32	4.29	87.	7.9	287.0	2.0									
19	01	01	1	17	-24.0	0.270	-9.000	-9.000	-999.	337.	79.9	0.03	0.93	
0.60	3.93	114.	7.9	285.3	2.0									
19	01	01	1	18	-6.3	0.099	-9.000	-9.000	-999.	106.	13.6	0.03	0.93	
1.00	1.53	116.	7.9	283.8	2.0									
19	01	01	1	19	-6.7	0.101	-9.000	-9.000	-999.	78.	14.0	0.03	0.93	
1.00	1.57	98.	7.9	282.0	2.0									
19	01	01	1	20	-3.4	0.072	-9.000	-9.000	-999.	47.	10.0	0.03	0.93	
1.00	1.11	98.	7.9	279.8	2.0									
19	01	01	1	21	-5.6	0.092	-9.000	-9.000	-999.	67.	12.5	0.03	0.93	
1.00	1.43	25.	7.9	279.8	2.0									
19	01	01	1	22	-7.2	0.105	-9.000	-9.000	-999.	81.	14.3	0.03	0.93	
1.00	1.64	39.	7.9	279.2	2.0									
19	01	01	1	23	-16.3	0.161	-9.000	-9.000	-999.	155.	28.5	0.03	0.93	

```

1.00    2.44   49.    7.9  279.2   2.0
  19 01 01   1 24  -25.8  0.257 -9.000 -9.000 -999.  312.    72.5  0.03  0.93
1.00    3.83   69.    7.9  280.3   2.0

```

First hour of profile data

```

YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
19 01 01 01    7.9 1   25.    1.57  280.4  99.0  -99.00 -99.00

```

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

```

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*** MODELOPTs:   RegDEFAULT CONC ELEV URBAN ADJ_U*

```

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

```

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

GROUP ID	NETWORK	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV,
ZHILL, ZFLAG)	OF TYPE GRID-ID		
ALL	1ST HIGHEST VALUE IS	97.00839 AT (	474384.49, 3656529.97, 96.10,
96.10,	0.00) GC UCART1		
	2ND HIGHEST VALUE IS	95.24156 AT (	474346.21, 3656529.97, 94.90,
94.90,	0.00) GC UCART1		
	3RD HIGHEST VALUE IS	81.93310 AT (	474422.77, 3656529.97, 96.50,
96.50,	0.00) GC UCART1		
	4TH HIGHEST VALUE IS	80.56241 AT (	474307.93, 3656529.97, 93.60,
93.60,	0.00) GC UCART1		
	5TH HIGHEST VALUE IS	74.46080 AT (	474343.64, 3656519.25, 94.87,
94.87,	0.00) DC		
	6TH HIGHEST VALUE IS	72.17470 AT (	474381.45, 3656517.63, 96.00,
96.00,	0.00) DC		
	7TH HIGHEST VALUE IS	71.35864 AT (	474327.38, 3656519.25, 94.38,
94.38,	0.00) DC		
	8TH HIGHEST VALUE IS	69.55312 AT (	474258.27, 3656563.57, 90.15,
90.15,	0.00) DC		
	9TH HIGHEST VALUE IS	62.77317 AT (	474372.10, 3656510.31, 95.98,
95.98,	0.00) DC		

10TH HIGHEST VALUE IS 56.70961 AT (474329.00, 3656506.65, 94.40,
94.40, 0.00) DC

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

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF HIGHEST 1-HR

RESULTS ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

GROUP ID	NETWORK	DATE	RECEPTOR
(XR, YR, ZELEV, ZHILL, ZFLAG)	AVERAGE CONC OF TYPE GRID-ID	(YYMMDDHH)	
-----	-----	-----	-----
-----	-----	-----	-----

ALL HIGH 1ST HIGH VALUE IS 464.25659 ON 19120716: AT (474384.49,
3656529.97, 96.10, 96.10, 0.00) GC UCART1

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

▲ *** AERMOD - VERSION 22112 *** C:\Users\enuno\OneDrive -
Dudek\Desktop\HARP2\HARP\Ocean_Bluff\OCEAN *** 04/21/23
*** AERMET - VERSION 22112 ***
*** 22:48:51

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

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

A Total of 0 Fatal Error Message(s)
A Total of 2 Warning Message(s)
A Total of 1272 Informational Message(s)

A Total of 26304 Hours Were Processed

A Total of 701 Calm Hours Identified

A Total of 571 Missing Hours Identified (2.17 Percent)

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

***** WARNING MESSAGES *****
ME W186 451 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
0.50
ME W187 451 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

HARP2 - HRACalc (dated 22118) 8/15/2024 3:42:47 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully

RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: Derived

EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 1.27

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 1.27
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

INHALATION

Daily breathing rate: RMP

****Worker Adjustment Factors****

Worker adjustment factors enabled: NO

****Fraction at time at home****

3rd Trimester to 16 years: OFF

16 years to 70 years: OFF

TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.

Tier2 - What was changed: ED or start age changed|

Calculating cancer risk

Cancer risk breakdown by pollutant and receptor saved to: C:\Users\enuno\OneDrive - Dudek\Desktop\HARP2\HARP\501_Ocean_Bluff_Way\501 OCEAN BLUFF

WAY\hra\OceanBluff_Unmit_202408CancerRisk.csv

Cancer risk total by receptor saved to: C:\Users\enuno\OneDrive -

Dudek\Desktop\HARP2\HARP\501_Ocean_Bluff_Way\501 OCEAN BLUFF

WAY\hra\OceanBluff_Unmit_202408CancerRiskSumByRec.csv

Calculating chronic risk

Chronic risk breakdown by pollutant and receptor saved to: C:\Users\enuno\OneDrive -

Dudek\Desktop\HARP2\HARP\501_Ocean_Bluff_Way\501 OCEAN BLUFF

WAY\hra\OceanBluff_Unmit_202408NCChronicRisk.csv

Chronic risk total by receptor saved to: C:\Users\enuno\OneDrive -

Dudek\Desktop\HARP2\HARP\501_Ocean_Bluff_Way\501 OCEAN BLUFF

WAY\hra\OceanBluff_Unmit_202408NCChronicRiskSumByRec.csv

Calculating acute risk

Acute risk breakdown by pollutant and receptor saved to: C:\Users\enuno\OneDrive -

Dudek\Desktop\HARP2\HARP\501_Ocean_Bluff_Way\501 OCEAN BLUFF

WAY\hra\OceanBluff_Unmit_202408NCAcuteRisk.csv

Acute risk total by receptor saved to: C:\Users\enuno\OneDrive -

Dudek\Desktop\HARP2\HARP\501_Ocean_Bluff_Way\501 OCEAN BLUFF

WAY\hra\OceanBluff_Unmit_202408NCAcuteRiskSumByRec.csv

HRA ran successfully

Table with columns: REC, GRP, NETID, X, Y, SCENARIO, CV, CNS, IMMUN, KIDNEY, GLV, REPRO/DE, RESP, SKIN, EYE, BONE/TEE, ENDO, BLOOD, ODOR, GENERAL, MAXHI. Rows include data for various scenarios like 427 ALL UCART1, 426 ALL UCART1, etc.

HARP2 - HRACalc (dated 22118) 8/15/2024 3:44:45 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully

RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: Derived

EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 1.27

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 1.27
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

INHALATION

Daily breathing rate: RMP

****Worker Adjustment Factors****
Worker adjustment factors enabled: NO

****Fraction at time at home****
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.

Tier2 - What was changed: ED or start age changed|

Calculating cancer risk

Cancer risk breakdown by pollutant and receptor saved to: C:\Users\enuno\OneDrive - Dudek\Desktop\HARP2\HARP\501_Ocean_Bluff_Way\501 OCEAN BLUFF WAY\hra\OceanBluff_Mit_202408CancerRisk.csv

Cancer risk total by receptor saved to: C:\Users\enuno\OneDrive - Dudek\Desktop\HARP2\HARP\501_Ocean_Bluff_Way\501 OCEAN BLUFF WAY\hra\OceanBluff_Mit_202408CancerRiskSumByRec.csv

Calculating chronic risk

Chronic risk breakdown by pollutant and receptor saved to: C:\Users\enuno\OneDrive - Dudek\Desktop\HARP2\HARP\501_Ocean_Bluff_Way\501 OCEAN BLUFF WAY\hra\OceanBluff_Mit_202408NCChronicRisk.csv

Chronic risk total by receptor saved to: C:\Users\enuno\OneDrive - Dudek\Desktop\HARP2\HARP\501_Ocean_Bluff_Way\501 OCEAN BLUFF WAY\hra\OceanBluff_Mit_202408NCChronicRiskSumByRec.csv

Calculating acute risk

Acute risk breakdown by pollutant and receptor saved to: C:\Users\enuno\OneDrive - Dudek\Desktop\HARP2\HARP\501_Ocean_Bluff_Way\501 OCEAN BLUFF WAY\hra\OceanBluff_Mit_202408NCAcuteRisk.csv

Acute risk total by receptor saved to: C:\Users\enuno\OneDrive - Dudek\Desktop\HARP2\HARP\501_Ocean_Bluff_Way\501 OCEAN BLUFF WAY\hra\OceanBluff_Mit_202408NCAcuteRiskSumByRec.csv

HRA ran successfully

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GLV	REPRO/DE	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL	MAXHI		
427	ALL	UCART1	474384.5	3656530	NonCancel	0.00E+00	5.34E-03	0.00E+00	5.34E-03	No receptors at this location												
426	ALL	UCART1	474346.2	3656530	NonCancel	0.00E+00	5.24E-03	0.00E+00	5.24E-03	No receptors at this location												
428	ALL	UCART1	474422.8	3656530	NonCancel	0.00E+00	4.51E-03	0.00E+00	4.51E-03													
425	ALL	UCART1	474307.9	3656530	NonCancel	0.00E+00	4.43E-03	0.00E+00	4.43E-03													
2657	ALL		474343.6	3656519	NonCancel	0.00E+00	4.10E-03	0.00E+00	4.10E-03													
2660	ALL		474381.5	3656518	NonCancel	0.00E+00	3.97E-03	0.00E+00	3.97E-03													
2656	ALL		474327.4	3656519	NonCancel	0.00E+00	3.83E-03	0.00E+00	3.83E-03													
2649	ALL		474258.3	3656564	NonCancel	0.00E+00	3.83E-03	0.00E+00	3.83E-03													
2661	ALL		474372.1	3656510	NonCancel	0.00E+00	3.45E-03	0.00E+00	3.45E-03													
2658	ALL		474329	3656507	NonCancel	0.00E+00	3.12E-03	0.00E+00	3.12E-03													
424	ALL	UCART1	474269.7	3656530	NonCancel	0.00E+00	3.08E-03	0.00E+00	3.08E-03													
2659	ALL		474341.6	3656804	NonCancel	0.00E+00	3.06E-03	0.00E+00	3.06E-03													
2662	ALL		474385.9	3656503	NonCancel	0.00E+00	2.91E-03	0.00E+00	2.91E-03													
2700	ALL		474487.1	3656620	NonCancel	0.00E+00	2.77E-03	0.00E+00	2.77E-03													
2663	ALL		474438	3656514	NonCancel	0.00E+00	2.76E-03	0.00E+00	2.76E-03													
429	ALL	UCART1	474461.1	3656530	NonCancel	0.00E+00	2.47E-03	0.00E+00	2.47E-03													
2653	ALL		474265.6	3656514	NonCancel	0.00E+00	2.46E-03	0.00E+00	2.46E-03													
405	ALL	UCART1	474346.2	3656484	NonCancel	0.00E+00	2.21E-03	0.00E+00	2.21E-03													
406	ALL	UCART1	474384.5	3656484	NonCancel	0.00E+00	2.16E-03	0.00E+00	2.16E-03													
404	ALL	UCART1	474307.9	3656484	NonCancel	0.00E+00	2.08E-03	0.00E+00	2.08E-03													
423	ALL	UCART1	474231.4	3656530	NonCancel	0.00E+00	2.02E-03	0.00E+00	2.02E-03													
2664	ALL		47440.8	3656493	NonCancel	0.00E+00	1.96E-03	0.00E+00	1.96E-03													
407	ALL	UCART1	474422.8	3656484	NonCancel	0.00E+00	1.91E-03	0.00E+00	1.91E-03													
2666	ALL		474377	3656475	NonCancel	0.00E+00	1.90E-03	0.00E+00	1.90E-03													
2652	ALL		474205	3656559	NonCancel	0.00E+00	1.90E-03	0.00E+00	1.90E-03													
2651	ALL		474194.9	3656569	NonCancel	0.00E+00	1.78E-03	0.00E+00	1.78E-03													
2669	ALL		474257.9	3656491	NonCancel	0.00E+00	1.78E-03	0.00E+00	1.78E-03													
403	ALL	UCART1	474269.7	3656484	NonCancel	0.00E+00	1.76E-03	0.00E+00	1.76E-03													
451	ALL	UCART2	474338.7	3656743	NonCancel	0.00E+00	1.69E-03	0.00E+00	1.69E-03													
452	ALL	UCART2	474357.8	3656743	NonCancel	0.00E+00	1.68E-03	0.00E+00	1.68E-03													
450	ALL	UCART2	474319.7	3656743	NonCancel	0.00E+00	1.66E-03	0.00E+00	1.66E-03													
453	ALL	UCART2	474376.9	3656743	NonCancel	0.00E+00	1.64E-03	0.00E+00	1.64E-03													
2667	ALL		474331.9	3656464	NonCancel	0.00E+00	1.64E-03	0.00E+00	1.64E-03													
449	ALL	UCART2	474300.6	3656743	NonCancel	0.00E+00	1.60E-03	0.00E+00	1.60E-03													
430	ALL	UCART1	474499.3	3656530	NonCancel	0.00E+00	1.59E-03	0.00E+00	1.59E-03													
454	ALL	UCART2	474396	3656743	NonCancel	0.00E+00	1.58E-03	0.00E+00	1.58E-03													
448	ALL	UCART2	474281.5	3656743	NonCancel	0.00E+00	1.50E-03	0.00E+00	1.50E-03													
455	ALL	UCART2	474415	3656743	NonCancel	0.00E+00	1.50E-03	0.00E+00	1.50E-03													
2650	ALL		474177.4	3656569	NonCancel	0.00E+00	1.49E-03	0.00E+00	1.49E-03													
408	ALL	UCART1	474461.1	3656484	NonCancel	0.00E+00	1.48E-03	0.00E+00	1.48E-03													
2654	ALL		474216.4	3656507	NonCancel	0.00E+00	1.47E-03	0.00E+00	1.47E-03													
422	ALL	UCART1	474193.1	3656530	NonCancel	0.00E+00	1.46E-03	0.00E+00	1.46E-03													
2685	ALL		474517	3656682	NonCancel	0.00E+00	1.43E-03	0.00E+00	1.43E-03													
456	ALL	UCART2	474434.1	3656743	NonCancel	0.00E+00	1.41E-03	0.00E+00	1.41E-03													
447	ALL	UCART2	474262.5	3656743	NonCancel	0.00E+00	1.38E-03	0.00E+00	1.38E-03													
2683	ALL		474481.8	3656726</																		

