

APPENDIX C

Air Quality and Greenhouse Gas Technical Report

Air Quality and Greenhouse Gas Emissions Technical Report

Fairmount Avenue Fire Station Project

City of San Diego, California

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Acronyms and Abbreviations

Acronym/Abbreviation	Definition
AB	Assembly Bill
AERMOD	American Meteorological Society/EPA Regulatory Model
CAA	federal Clean Air Act
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emissions Estimator Model
CALGreen	California Green Building Standards Code
CalRecycle	California Department of Resources Recycling and Recovery
CAP	Climate Action Plan
CARB	California Air Resources Board
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CFC	chlorofluorocarbons
City	City of San Diego
CH ₄	methane
CNRA	California Natural Resources Agency
CO	carbon monoxide
CO ₂	carbon dioxide
CO ₂ e	carbon dioxide equivalent
County	County of San Diego
DPM	diesel particulate matter
EO	Executive Order
EPA	U.S. Environmental Protection Agency
GHG	greenhouse gas
GWP	global warming potential
HAP	hazardous air pollutant
HCFC	hydrochlorofluorocarbon
HFC	hydrofluorocarbon
HRA	health risk assessment
IPCC	Intergovernmental Panel on Climate Change
LEED	Leadership in Energy and Environmental Design
LOS	level of service
MM	mitigation measure
MMT	million metric tons
MPO	metropolitan planning organization
MT	metric ton
N ₂ O	nitrous oxide
NAAQS	National Ambient Air Quality Standards
NHTSA	National Highway Traffic Safety Administration
NO ₂	nitrogen dioxide
NO _x	oxides of nitrogen

Acronym/Abbreviation	Definition
O ₃	ozone
OEHHA	Office of Environmental Health Hazard Assessment
PFC	perfluorocarbon
project	Fairmount Avenue Fire Station Project
PM _{2.5}	fine particulate matter; particulate matter less than or equal to 2.5 microns
PM ₁₀	coarse particulate matter; particulate matter less than or equal to 10 microns
RAQS	Regional Air Quality Strategy
RTP	Regional Transportation Plan
SANDAG	San Diego Association of Governments
SB	Senate Bill
SCS	Sustainable Communities Strategy
SDAB	San Diego Air Basin
SDAPCD	San Diego Air Pollution Control District
SF ₆	sulfur hexafluoride
SIP	State Implementation Plan
SO ₂	sulfur dioxide
SO _x	sulfur oxides
TAC	toxic air contaminant
VMT	vehicle miles traveled
VOC	volatile organic compound
ZEV	zero-emission vehicle

Executive Summary

The purpose of this technical report is to assess potential air quality and greenhouse gas (GHG) emissions impacts associated with the implementation of the Fairmount Avenue Fire Station Project (project) in the City of San Diego. This assessment uses the City of San Diego California Environmental Quality Act Significance Determination Thresholds.

Project Overview

The project involves development of a four-story fire station with 1 apparatus bay (5,200 square feet), an exercise room (1,435 square feet), a kitchen, and 10 bunk rooms (totaling 5,850 square feet). The station will be serviced by a trash enclosure, an emergency generator, and a diesel fuel tank.

The air quality impact analysis evaluated the potential for adverse impacts to air quality due to construction and operational emissions resulting from the project. The proposed project was deemed to be consistent with the current air quality plan because it is consistent with the current land use and zoning designation, and the anticipated growth associated with the project does not exceed that projected by the San Diego Association of Governments. 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. 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.

The maximum daily construction emissions would not exceed the San Diego Air Pollution Control District (SDAPCD) significance thresholds for volatile organic compounds (VOCs), oxides of nitrogen (NO_x), carbon monoxide (CO), sulfur oxides (SO_x), coarse particulate matter (PM₁₀), or fine particulate matter (PM_{2.5}) during construction. In addition, maximum operational emissions would not exceed the SDAPCD operational 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. Therefore, the project would have a less-than-significant impact.

A health risk assessment (HRA) was conducted to determine the potential impacts of exposure to diesel particulate matter, which is a toxic air contaminant (TAC), at existing proximate sensitive receptors in the project vicinity during construction. The results of the HRA demonstrate that after implementation of mitigation measure (MM) AQ-1, which requires use of Tier 4 Final equipment during construction, the TAC exposure from construction diesel exhaust emissions would result in cancer risk below the 10 in 1 million threshold and a chronic risk below the threshold of 1. Therefore, impacts to sensitive receptors during construction would be less than significant with mitigation.

An HRA was conducted to determine the potential impacts of exposure to TACs at existing proximate sensitive receptors in the project vicinity during operation. The results of the HRA demonstrate that the TAC exposure from truck travel and idling, maintenance and testing of the emergency diesel generator, and diesel tank fugitive emissions would result in cancer risk, chronic risk, and acute risk below their respective thresholds. Therefore, impacts to sensitive receptors would be less than significant.

It is expected that the project would not meet or exceed the City of San Diego's screening criteria for CO hotspots, and impacts associated with CO hotspots would be less than significant.

The project would be a fire station 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.

The proposed project is deemed to be consistent with the City of San Diego Climate Action Plan. As such, the project is not expected to generate GHG emissions that may have a significant impact on the environment and would not conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs, and the impact would be less than significant.

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1 Introduction

1.1 Report Purpose and Scope

The purpose of this technical report is to assess the potential air quality and greenhouse gas (GHG) emissions impacts associated with construction and operation of the Fairmount Avenue Fire Station Project (project). This assessment uses the City of San Diego California Environmental Quality Act (CEQA) Significance Determination Thresholds.

1.2 Project Location

The 1.28-acre project site is a vacant, undeveloped parcel located in the City of San Diego (City), which is within the central portion of San Diego County (Figure 1, Project Location). The project is located approximately 0.5 miles east of Interstate 805 and 0.5 miles north of Highway 94. The project area is located north of the intersection of 47th Street and Fairmount Avenue, situated on the west side of 47th Street. The project site is surrounded by residential uses to the east and north, open space to the north and west, and commercial and industrial uses and a school to the south.

The project site is designated Industrial Employment in the City's General Plan and zoned Open Space (OP-2-1) and Residential-Single Unit (RS-1-7) in the City's Zoning Code (City of San Diego 2024a) and designated Industrial Employment in the City's General Plan (City of San Diego 2024b). The project site is currently designated as Industrial in the Mid-City Communities Plan, while the proposed off-site improvements would be within the 47th Street right-of-way and also within a temporary construction staging area located approximately 0.4 miles southwest of the site. Overall, the site is designated for industrial uses while the zoning indicates the site is planned for open space and residential uses.

1.3 Project Description

The project proposes the construction of a 22,443 square-foot four story fire station on a 1.28-acre site situated atop a canyon west of 47th Street in the City. Access to the site would be from 47th Street that borders the site to the east. The fire station features one garage and two apparatus bays (approximately 5,200 square feet), an exercise room, a kitchen, and 10 bunk rooms. The project also includes a 15-stall parking lot, trash enclosure, an emergency generator, and a 1,000-gallon diesel fuel tank. Construction activities will include ground and foundation preparation, utility installation, framing and assembly of the building and associated apparatus bay, paving of a parking lot and driveway areas, and landscaping. Project construction would necessitate grading, requiring 3,783 cubic yards of import material. Off-site improvements include new 22-foot-wide and 40-foot-wide drive aprons, a new crosswalk, a new concrete curb cut, and a new power pole on 47th Street.

During operations, the fire station would support a total of 12 firefighters and rescue staff (two crews of 4 firefighters and one ambulance crew of 2). The firefighters work 24-hour shifts, and the ambulance crew works

either 12- or 24-hour shifts per day (City of San Diego Fire-Rescue Department 2024).¹ It is estimated that there would be approximately 15 emergency responses per day and 2 truck deliveries per day.

¹ The described staffing includes 12 firefighters and rescue personnel, based on the assumption that two ambulance crews would work 12-hour shifts. This results in a total daily staffing of 12 individuals, four of which would be assigned to the ambulance crews.

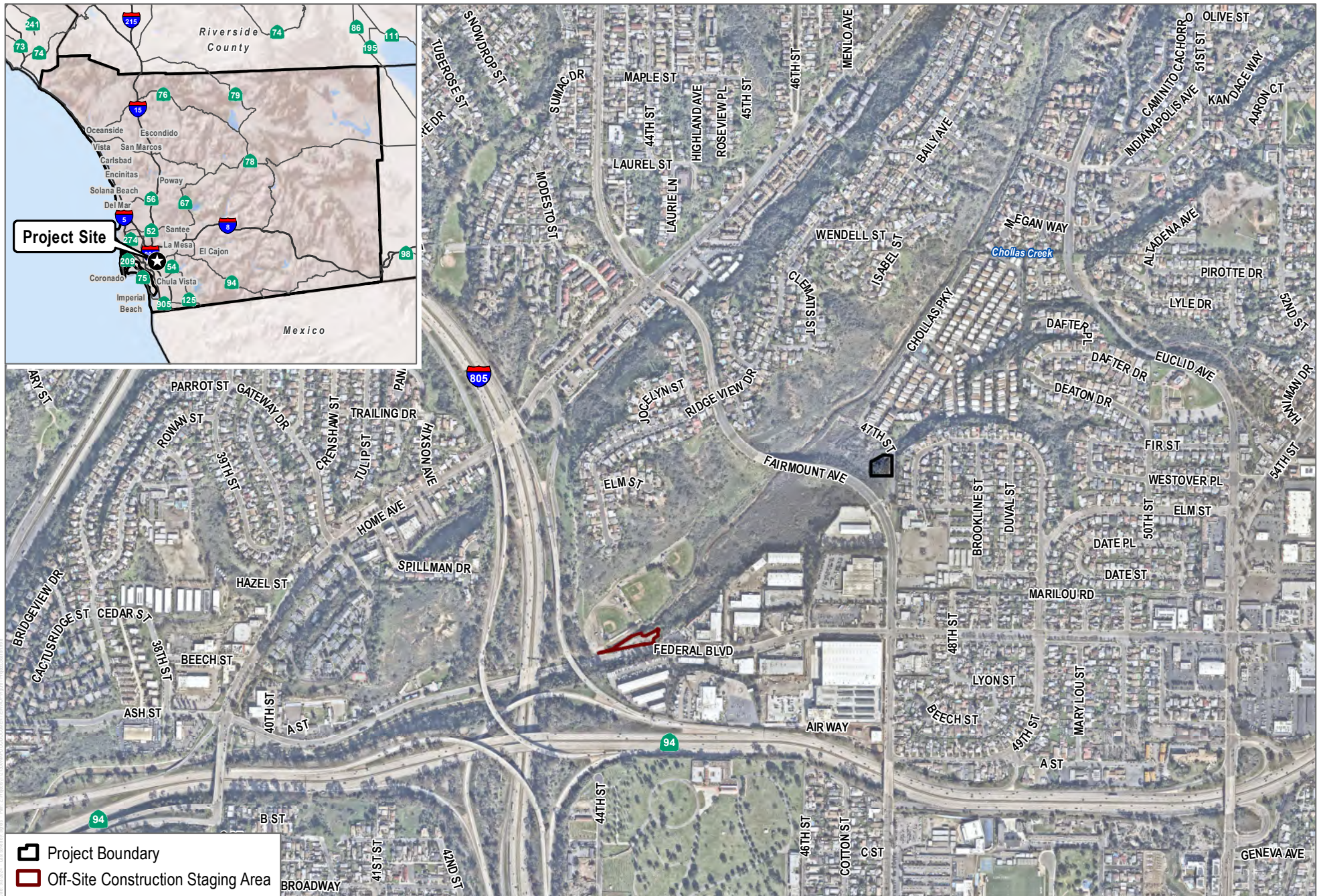


FIGURE 1

Project Location

Fairmount Avenue Fire Station

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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 semipermanent 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, topography influences the dispersal and movement of pollutants in the SDAB. 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 SDAPCD guidelines and regulations. The SDAB is one of 15 air basins that geographically divide California. It is currently classified as a federal nonattainment area for ozone (O_3) and a state nonattainment area for particulate matter less than or equal to 10 microns (PM_{10}), particulate matter less than or equal to 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 rainfall, 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 can also 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 that, under certain conditions of weather and sunlight, may result in a murky brown haze that causes adverse health effects (CARB 2024a).

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 by 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 by 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 (County). This often produces high O₃ concentrations, as measured at air pollutant monitoring stations within the County. The transport of air pollutants from Los Angeles to the County 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 SDAPCD, sensitive receptors are those who are especially susceptible to adverse health effects from exposure to TACs, such as children, the elderly, and the ill. Examples of sensitive receptors include long-term health care facilities, rehabilitation centers, convalescent centers, retirement homes, residences, schools, playground, childcare centers, and athletic facilities (City of San Diego 2022a). According to the City of San Diego CEQA Thresholds, the City advises applicants to consider sensitive receptors in locations such as day care centers, schools, retirement homes, and hospitals, as well as medical patients in residential homes close to major roadways or stationary sources, which could be impacted by air pollutants (City of San Diego 2022a). The closest sensitive receptors are single-family residences located approximately 70 feet to the east of the project site and Webster Elementary School, approximately 450 feet to the southeast 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.² In California, sulfates, vinyl chloride, hydrogen sulfide, and visibility-reducing particles are also regulated as criteria air pollutants.

Ozone. 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 volatile organic compounds (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.³ The O₃ that the U.S. Environmental Protection Agency (EPA) and CARB regulate as a criteria air pollutant is produced close to 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 2023a). These health problems are particularly acute in sensitive receptors such as the sick, the elderly, and young children.

Nitrogen Dioxide. 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, 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 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.

Carbon Monoxide. 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 nonreactive 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.

² 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 Criteria Air Pollutants (EPA 2024a) and the California Air Resources Board's Glossary (CARB 2024b).

³ 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.

The highest levels of CO typically occur during the colder months of the year, when inversion conditions are more frequent.

In terms of adverse health effects, CO competes with oxygen, often replacing it in the blood, reducing the blood's ability to transport oxygen to vital organs. The results of excess CO exposure can include dizziness, fatigue, and impairment of central nervous system functions.

Sulfur Dioxide. 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 industry; 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.

SO₂ is an irritant gas that attacks the throat and lungs and can cause acute respiratory symptoms and diminished ventilator function in children. When combined with particulate matter, SO₂ can injure lung tissue and reduce visibility and the level of sunlight. SO₂ can also yellow plant leaves and erode iron and steel.

Particulate Matter. 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 industry 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 bloodstream, 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.

People with influenza, people with chronic respiratory and cardiovascular diseases, and the elderly may suffer worsening illness and premature death as a result of breathing particulate matter. People with bronchitis can expect aggravated symptoms from breathing in particulate matter. Children may experience a decline in lung function due to breathing in PM₁₀ and PM_{2.5}.

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. 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 toxic air contaminants (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 and 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, and produced by 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. 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 non-cancer 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 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 due to either short-term (acute) or long-term (chronic) exposure to a given TAC.

Diesel Particulate Matter. 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 2024c). 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 2024c). 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 2024c). 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.

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. 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.

Under the CAA, EPA establishes NAAQS for “criteria pollutants,” 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 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 EPA to identify national emission standards for HAPs to protect the public health and welfare. HAPs include certain VOCs, 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)	N/A	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)	N/A
	3 hours	N/A	N/A	0.5 ppm (1,300 µg/m ³)
	24 hours	0.04 ppm (105 µg/m ³)	0.14 ppm (for certain areas) ^g	N/A
	Annual	N/A	0.030 ppm (for certain areas) ^g	N/A
PM ₁₀ ⁱ	24 hours	50 µg/m ³	150 µg/m ³	Same as primary standard
	Annual arithmetic mean	20 µg/m ³	N/A	
PM _{2.5} ⁱ	24 hours	N/A	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 ^{j, k}	30-day average	1.5 µg/m ³	N/A	N/A
	Calendar quarter	N/A	1.5 µg/m ³ (for certain areas) ^k	Same as primary standard
	Rolling 3-month average	N/A	0.15 µg/m ³	
Hydrogen sulfide	1 hour	0.03 ppm (42 µg/m ³)	N/A	N/A
Vinyl chloride ⁱ	24 hours	0.01 ppm (26 µg/m ³)	N/A	N/A
Sulfates	24 hours	25 µg/m ³	N/A	N/A

Table 1. Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards ^a	National Standards ^b	
		Concentration ^c	Primary ^{c,d}	Secondary ^{c,e}
Visibility reducing particles	8 hours (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%	N/A	N/A

Source: CARB 2024d.

Notes: O₃ = ozone; ppm = parts per million by volume; µg/m³ = micrograms per cubic meter; N/A = not applicable; 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 is 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 February 7, 2024, the national annual PM_{2.5} primary standard was lowered from 12.0 µg/m³ to 9.0 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 The California Air Resources Board has identified lead and vinyl chloride as toxic air contaminants with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.
- ^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.

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. The regulation was anticipated to result in an 80% decrease in statewide diesel health risk in 2020 compared with the diesel risk in 2000. 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 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).

In addition, the Air Toxics “Hot Spots” Information and Assessment Act (AB 2588, 1987, Connelly) was enacted in 1987 and requires stationary sources to report the types and quantities of certain substances released into the air. The goals of the Air Toxics “Hot Spots” Act are to collect emission data, to identify facilities having localized impacts, to ascertain health risks, to notify nearby residents of significant risks, and to reduce those significant risks to acceptable levels.

California Health and Safety Code Section 41700

This section 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

2.2.3.1 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 the County, O₃ and particulate matter are the pollutants of main concern because 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, an 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.

Federal Attainment Plans

In November 2020, SDAPCD adopted the 2020 Plan for Attaining the National Ambient Air Quality Standards for Ozone in San Diego County (2020 Attainment Plan) for attaining the federal 8-hour 75 parts per billion and 70 ppb O₃ standards, which is the SDAB's input to the SIP and required to demonstrate how the SDAPCD proposes to attain the federal O₃ standards. The plan anticipates attainment of the 75 ppb and 70 ppb NAAQS standards by 2026 and 2032, respectively. The 2020 Attainment Plan establishes planning requirements for attaining the O₃ NAAQS, including on-road motor vehicle emissions budgets for transportation conformity, a vehicle miles traveled (VMT) offset demonstration, reasonably available control measures, reasonable further progress, an attainment demonstration, and contingency measures in the event of a failure to meet a milestone or to attain by the predicted attainment date (SDAPCD 2020a).

State Attainment Plans

SDAPCD and the San Diego Association of Governments (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 Regional Air Quality Strategy (RAQS) for the SDAB was initially adopted in 1991 and is updated every 3 years, most recently in 2022 (SDAPCD 2023). 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 2017).

On March 9, 2023, SDAPCD adopted the revised 2022 RAQS for the County. The RAQS 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 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 GHGs and particulate matter. 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.

Regarding 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 (SB) 656 in the County (SB 656 required additional controls to reduce ambient concentrations of PM₁₀ and PM_{2.5}) (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).

San Diego Air Pollution Control District 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 II: Permits; Rule 10: Permits Required.** Requires any person building, erecting, altering or replacing any article, machine, equipment or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate or reduce or control the issuance of air contaminant, to first obtain written authorization for such construction from the Air Pollution Control Officer (SDAPCD 1996a).
- **SDAPCD Regulation II: Permits; Rule 20.2: New Source Review, Non-Major Stationary Sources.** Applies to any new or modified stationary source, to any new or modified emission unit, to any replacement emission unit, and to any relocated emission unit being moved to a stationary source provided that, after completion of the project, the stationary source is not a major stationary source or a federal major stationary source (SDAPCD 2020b).
- **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 trackout and carryout onto paved roads beyond a project site (SDAPCD 2009).
- **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 2022b).
- **SDAPCD Regulation IV: Prohibitions; Rule 67.7: Cutback and Emulsified Asphalts.** This rule prohibits manufacturers, distributors, and end users of cutback and emulsified asphalt materials for the paving, construction or maintenance of parking lots, driveways, streets and highways from applying asphalt material or road oils which contain more than 0.5 percent by volume VOC which evaporate at 260° C (500° F) or less (SDAPCD 1996b).
- **SDAPCD Regulation IV: Prohibitions; Rule 69.4.1: Stationary Reciprocating Internal Combustion Engines.** Applies to stationary internal combustion engines with a brake horsepower rating of 50 or greater (SDAPCD 2020c).

2.2.3.2 San Diego Association of Governments

SANDAG is the regional planning agency for the County and serves as a forum for regional issues relating to transportation, the economy, community development, and the environment. SANDAG serves as the federally designated metropolitan planning organization (MPO) for the County. With respect to air quality planning and other regional issues, SANDAG prepared San Diego Forward: The Regional Plan (Regional Plan) for the San Diego region (SANDAG 2015). The Regional Plan combines the big-picture vision for how the region will grow over the next 35 years with an implementation program to help make that vision a reality. The Regional Plan, including its Sustainable Communities Strategy, is built on an integrated set of public policies, strategies, and investments to maintain, manage, and improve the transportation system so that it meets the diverse needs of the San Diego region through 2050. The Regional Plan was updated in 2021, which was the result of years of planning, data analysis, and community engagement to reimagine the San Diego region with a transformative transportation system, a sustainable pattern of growth and development, and innovative demand and management strategies (SANDAG 2021). The 2021 Regional Plan includes an SCS, which describes coordinated transportation and land use planning that exceeds the state's target for reducing per-capita GHG emissions set by CARB. The state-mandated target is a 19% reduction, as compared to 2005, in per-capita GHG emissions from cars and light-duty trucks by 2035. By comparison, the 2021 Regional Plan achieves a 20% reduction by the same year. The 2021 Regional Plan also puts forth a forecasted development pattern that is driven by regional goals for sustainability, mobility, housing affordability, and economic prosperity.

2.2.3.3 City of San Diego

General Plan

The City of San Diego General Plan was adopted in March 2008 and amended in 2024. The City's General Plan includes various goals and policies in its Conservation Element related to directly and indirectly improving air quality (City of San Diego 2024c). Applicable policies include the following:

- CE-F.1 Develop fuel efficiency, municipal and citywide building electrification, and vehicle replacement and electrification measures to reduce fossil fuel use, consistent with the Climate Action Plan.
- CE-F.2 Continue to upgrade energy conservation in City buildings and support community outreach efforts to achieve similar goals in the community.
- CE-F.4 Preserve and plant trees, and plants that are consistent with habitat and water conservation policies and that absorb carbon dioxide and pollutants.
- CE-F.5 Promote technological innovations to help reduce automobile, truck, and other motorized equipment emissions.
- CE-F.6 Encourage and provide incentives for the use of alternatives to single-occupancy vehicle use, including using public transit, carpooling, vanpooling, teleworking, bicycling, and walking/rolling. Continue to implement programs to provide City employees with incentives for the use of alternatives to single-occupancy vehicles.

CE-F.9 Prohibit the idling of motive equipment (vehicles and equipment using fossil fuels) that is owned or leased by the City and operated by City employees unless mission necessary.

Municipal Code

The San Diego Municipal Code addresses air quality and odor impacts in Chapter 14, Article 2, Division 7, Off-Site Development Impact Regulations paragraph 142.0710, Air Contaminant Regulations, which states that air contaminants including smoke, charred paper, dust, soot, grime, carbon, noxious acids, toxic fumes, gases, odors, and particulate matter, or any emissions that endanger human health, cause damage to vegetation or property, or cause soiling shall not be permitted to emanate beyond the boundaries of the premises upon which the use emitting the contaminants is located (City of San Diego 2010).

Zero Emissions Municipal Buildings & Operations Policy

In December 2024, the San Diego City Council adopted an update to Council Policy No. 900-03, the Zero Emissions Municipal Buildings & Operations Policy (ZEMBOP), which establishes an implementing framework to ensure the City leads by example in decarbonizing the municipal building sector and transitioning to a zero-emissions fleet by 2035. ZEMBOP applies to all municipal facilities and parking lots and is included in all new leases of City-owned property. With the adoption of ZEMBOP, new construction projects will be required to be all-electric, 10% more efficient than the state code, and designed to include a solar or other renewable energy system plus a battery energy storage system large enough to cover the facility's electricity load. All new construction projects shall be designed and operated with exclusively electric systems or appliances for space conditioning, water heating, cooking, and lighting, and without using any fossil fuel energy source for non-emergency electricity generation or any other non-emergency functions. All fleet parking spaces in associated parking lots must be EV Ready (i.e. wiring to the spaces), and staff and public spaces must meet CALGreen Tier 1 requirements for EV charging infrastructure.

2.3 Regional and Local Air Quality

2.3.1 San Diego Air Basin 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, EPA or CARB sets these standards 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 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, calls for the designation of areas as attainment or nonattainment, but based on the CAAQS rather than the NAAQS.

Table 2 summarizes the SDAB's federal and state attainment designations for each of the criteria pollutants.

Table 2. San Diego Air Basin 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

Source: SDAPCD 2024.

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

Notes: 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 State Implementation Plans.
- ^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 The California Air Resources Board (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. SDAPCD 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. SDAPCD anticipates these new monitors will be approved as CAS monitors once CARB reviews the list of approved monitors, which has not been updated since 2013.

2.3.2 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 SDAB. The Sherman Elementary School monitoring station represents the closest monitoring station to the project site for concentrations for O₃, NO₂, and PM_{2.5} and is approximately 3 miles southwest of the project site. The El Cajon monitoring station is the closest monitoring station for CO and SO₂ and is approximately 10 miles northeast of the project site. The Chula Vista monitoring station is the closest monitoring station for PM₁₀ and is approximately 7 miles south of the project site. Ambient concentrations of pollutants from 2021 through 2023 are presented in Table 3.

Table 3. Local Ambient Air Quality Data

Monitoring Station	Unit	Averaging Time	Agency/ Method	AAQS	Measured Concentration by Year			Exceedances by Year		
					2021	2022	2023	2021	2022	2023
Ozone (O ₃)										
Sherman Elementary School	ppm	Maximum 1-hour concentration	State	0.09	0.076	0.087	0.081	0	0	0
	ppm	Maximum 8-hour concentration	State	0.070	0.064	0.063	0.071	0	0	1
			Federal	0.070	0.063	0.063	0.070	0	0	0
Nitrogen Dioxide (NO ₂)										
Sherman Elementary School	ppm	Maximum 1-hour concentration	State	0.18	0.054	0.053	0.054	0	0	0
			Federal	0.100	0.054	0.054	0.054	0	0	0
	ppm	Annual concentration	State	0.030	0.009	0.011	0.009	N/A	N/A	N/A
			Federal	0.053	0.009	0.010	0.010	N/A	N/A	N/A
Carbon Monoxide (CO)										
El Cajon	ppm	Maximum 1-hour concentration	State	20	ND	ND	ND	ND	ND	ND
			Federal	35	3.0	1.4	1.1	0	0	0
	ppm	Maximum 8-hour concentration	State	9.0	ND	ND	ND	N/A	N/A	N/A
			Federal	9	1.8	1.1	0.9	N/A	N/A	N/A
Sulfur Dioxide (SO ₂)										
El Cajon	ppm	Maximum 1-hour concentration	Federal	0.075	0.002	0.001	0.001	0	0	0
	ppm	Maximum 24-hour concentration	Federal	0.140	0.000	0.000	0.000	0	0	0
	ppm	Annual concentration	Federal	0.030	0.000	0.000	0.000	N/A	N/A	N/A
Coarse Particulate Matter (PM ₁₀) ^a										
Chula Vista	µg/m ³	Maximum 24-hour concentration	State	50	ND	ND	ND	ND (0)	ND (0)	ND
			Federal	150	46	38	51	ND (0)	ND (0)	0
	µg/m ³	Annual concentration	State	20	ND	ND	ND	N/A	N/A	N/A
Fine Particulate Matter (PM _{2.5}) ^a										
Sherman Elementary School	µg/m ³	Maximum 24-hour concentration	Federal	35	25.6	18.9	27.8	0.0 (0)	ND (0)	0.0 (0)

Table 3. Local Ambient Air Quality Data

Monitoring Station	Unit	Averaging Time	Agency/ Method	AAQS	Measured Concentration by Year			Exceedances by Year		
					2021	2022	2023	2021	2022	2023
	µg/m ³	Annual concentration	State	12	9.4	ND	ND	N/A	N/A	N/A
			Federal	9.0	9.7	8.8	8.9	N/A	N/A	N/A

Sources: CARB 2024e; EPA 2024. Data represent the highest concentrations experienced over a given year.

Notes: AAQS = Ambient Air Quality Standards; ppm = parts per million; N/A = not available or applicable; µg/m³ = micrograms per cubic meter; ND = insufficient data available to determine the value.

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 Sherman Elementary School monitoring station is located at 450B 24th Street, San Diego, California.

The Chula Vista monitoring station is located at 80 East J Street, Chula Vista, California.

The El Cajon monitoring station is located at 533 First Street, 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 exceed the standard.

2.4 Significance Criteria and Methodology

2.4.1 Thresholds of Significance

The following significance thresholds for air quality are based on criteria provided in the City’s CEQA Significance Determination Thresholds (City of San Diego 2022a). Per the City’s CEQA Significance Determination Thresholds, a project would result in significant impacts to air quality if it would:

- Conflict with or obstruct implementation of the applicable air quality plan;
- Violate any air quality standard or contribute substantially to an existing or projected air quality violation
- Result in 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 (including release emissions which exceed quantitative thresholds for ozone precursors);
- Expose sensitive receptors to substantial pollutant concentrations including air toxics such as diesel particulates⁴
- Create objectionable odors affecting a substantial number of people; or
- Release substantial quantities of air contaminants beyond the boundaries of the premises upon which the stationary source emitting the contaminants is located.

Per the City’s CEQA Guidelines, the SDAPCD Air Quality Significance Thresholds shown in Table 4 were used to determine the significance of project-generated construction and operational criteria air pollutants, specifically, the

⁴ As adopted by the South Coast Air Quality Management District in their CEQA Air Quality Handbook (Chapter 4) (SCAQMD 1993), a sensitive receptor is a person in the population who is more susceptible to health effects due to exposure to an air contaminant than is the population at large. Sensitive receptors (and the facilities that house them) in proximity to localized carbon monoxide sources, toxic air contaminants, or odors are of particular concern. Examples include long-term health care facilities, rehabilitation centers, convalescent centers, retirement homes, residences, schools, playgrounds, child care centers, and athletic facilities.

project's potential to violate any air quality standard or contribute substantially to an existing or projected air quality violation. In regard to the analysis of potential impacts to sensitive receptors, the City specifically recommends consideration of sensitive receptors in locations such as day care centers, schools, retirement homes, and hospitals, or of medical patients in residential homes close to major roadways or stationary sources, which could be impacted by air pollutants. The City also states that the significance of potential odor impacts should be determined based on what is known about the quantity of the odor compound(s) that would result from the project's proposed use(s), the types of neighboring uses potentially affected, the distance(s) between the project's point source(s) and the neighboring uses such as sensitive receptors, and the resultant concentration(s) at the receptors.

The air quality section of the CEQA Significance Determination Thresholds recognizes attainment status designations for the SDAB and its nonattainment status for both O₃ and PM. As such, the document recognizes that all new projects should include measures, pursuant to CEQA, to reduce project-related emissions of O₃ precursors and PM to ensure new development does not contribute to San Diego's nonattainment status for these pollutants. As part of its air quality permitting process, SDAPCD has established thresholds in Rule 20.2 requiring the preparation of air quality impact assessments for permitted stationary sources (SDAPCD 2020b). The SDAPCD sets forth quantitative emissions thresholds below which a stationary source would not have a significant impact on ambient air quality. Project-related air quality impacts estimated in this environmental analysis would be considered significant if any of the applicable significance thresholds presented in Table 4 are exceeded.

Table 4. Air Quality Significance Thresholds

Pollutant	Emission Rate		
	Pounds per Hour	Pounds per Day	Tons per Year
Coarse particulate matter (PM ₁₀)	N/A	100	15
Fine particulate matter (PM _{2.5}) ^a	N/A	67	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	N/A	3.2	0.6
Volatile organic compounds (VOCs)	N/A	137 ^b	15

Sources: SDAPCD 2020b; City of San Diego 2022a.

Note: N/A = not applicable.

^a PM_{2.5} thresholds consistent with SDAPCD AQIA Trigger levels (Regulation II, Rule 20.2, Table 20.2-1).

^b VOC threshold based on the threshold of significance for VOCs from the South Coast Air Quality Management District and the Monterey Bay Air Pollution Control District as stated in the City of San Diego's California Environmental Quality Act Significance Determination Thresholds (City of San Diego 2022a).

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 below the CAAQS and NAAQS, including appropriate background levels. For nonattainment 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.

The SDAPCD document Supplemental Guidelines for Submission of Air Toxics "Hot Spots" Program Health Risk Assessments provides guidance with which to perform HRAs within the SDAB. The current SDAPCD thresholds of

significance for TAC emissions from the operations of both permitted and non-permitted sources are combined and are less than 10 in 1 million for cancer and less than 1.0 for the chronic hazard index (SDAPCD 2022a).

SDAPCD Rule 51, Public Nuisance, prohibits emission of any material that causes nuisance to a considerable number of persons or that endangers the comfort, health, or safety of any person (SDAPCD 1976). A project involving 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.

2.4.2 Approach and Methodology

2.4.2.1 Construction Mass Emissions

Emissions from the construction phase of project components were estimated using the California Emissions Estimator Model (CalEEMod) Version 2022.1.1⁵ Per preliminary project details, it is assumed that construction of the project would begin in September 2026⁶ and would last approximately 34 months, ending in June 2029. There would be no overlap of phases. The analysis contained herein is based on the following schedule assumptions:

- Site preparation (20 days)
- Grading (280 days)
- Building construction (380 days)
- Paving (20 days)
- Architectural coating (10 days)

The construction schedule has been developed based on available information provided by the San Diego Fire Department, typical construction practices, and CalEEMod default assumptions. Construction phasing is intended to represent a schedule of anticipated activities for use in estimating potential project-generated construction emissions. Table 5 provides the construction equipment mix and vehicle trips assumed for estimating project-generated construction emissions. Additional details regarding construction assumptions are provided in the modeling output provided in Appendix A, Air Quality and Greenhouse Gas Emissions Calculations.

⁵ 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 (CAPCOA 2022). 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 the San Diego Air Pollution Control District, use CalEEMod to estimate greenhouse gas emissions in accordance with CEQA Guidelines Section 15064.4(a)(1).

⁶ The analysis assumes a construction start date of September 2026, which represents the earliest date construction would initiate. Assuming the earliest start date for construction represents the worst-case scenario for criteria air pollutant emissions because equipment and vehicle emission factors for later years would be slightly less due to more stringent standards for in-use off-road equipment and heavy-duty trucks, as well as fleet turnover replacing older equipment and vehicles in later years.

Table 5. Construction Scenario Assumptions

Construction Phase	One-Way Vehicle Trips			Equipment		
	Average Daily Worker Trips	Average Daily Vendor Truck Trips	Average Daily Haul Truck Trips	Equipment Type	Quantity	Daily Usage Hours
Site preparation	6	2	2	Graders	1	8
				Tractors/loaders/backhoes	1	8
Grading	12	4	8	Graders	1	6
				Rubber-tired dozers	1	6
				Tractors/loaders/backhoes	1	7
Building construction	30	6	0	Cranes	1	4
				Forklifts	2	6
				Tractors/loaders/backhoes	2	8
Paving	18	2	0	Cement and mortar mixers	4	6
				Pavers	1	7
				Rollers	1	7
				Tractors/loaders/backhoes	1	7
Architectural Coating	4	2	0	Air compressors	1	6

Note: See Appendix A for additional details.

The equipment mix assumptions were based on CalEEMod default assumptions based on proposed land use and are 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 up to 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 was assumed for construction vehicles, 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.

Implementation of the project would generate criteria air pollutant emissions from entrained dust, off-road equipment, vehicle emissions, and asphalt pavement application. Based on project-specific information, approximately 3,783 cubic yards of material is expected to be imported for project construction during the grading phase, resulting in eight daily haul truck trips. 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. Project construction 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.

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 and asphalt pavement would produce VOC emissions. The project would be subject to SDAPCD Rule 67.0.1, Architectural Coatings, to limit VOC content. For additional details see Appendix A.

2.4.2.2 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 proposed 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 2022a), provides guidance on performing 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 1 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 1 (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 proposed project evaluated the risk to existing off-site residents from diesel emissions from on-site construction equipment exhaust and from 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 2023a). For the proposed project, AERMOD was run with all sources emitting unit emissions (1 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 1-hour and period-averaging periods. Principal parameters of this modeling are presented in Table 6.

Table 6. Construction Health Risk Assessment AERMOD Principal Parameters

Parameter	Details
Meteorological data	The latest 3-year meteorological data (2019–2021) for the Lindbergh Field 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, considering the close proximity to the coastline, rural dispersion coefficients are the modeling default for San Diego County HRAs and were used for this analysis.

Table 6. Construction Health Risk Assessment AERMOD Principal Parameters

Parameter	Details
Terrain characteristics	The elevation of the modeled site is 4.6 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 up to 8 hours per day, 5 days per week. Vendor and hauling trips were modified to account only for emissions occurring within 0.25 miles of the project site (SJVAPCD 2018). The proposed project area was modeled as a line-volume source.
Source release characterizations	Based on EPA methodology, the modeled line-volume sources would result in a release height of 3.4 meters, a plume height of 6.8 meters, and a plume width of 8.6 meters for off-road equipment and diesel trucks (EPA 2015).
Receptors	Discrete receptors were placed over residences proximate to the project site. One uniform cartesian grid of 9.69 × 18.04-meter spacing was placed over residences to the east.

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

Source: See Appendix B, Health Risk Assessment Output Files, for additional information.

Dispersion model plot files from AERMOD were then imported into CARB's Hotspots Analysis and Reporting Program Version 2 (Version 22118) (HARP2) to determine health risk, which requires peak 1-hour emission rates and annual emission rates for all pollutants for each modeling source. For the residential health risk, the HRA assumes exposure for the sensitive receptors would start in the third trimester of pregnancy, for a duration of 34 months.

2.4.2.3 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, mobile sources, and stationary sources, which are discussed below. Emissions from these sources were estimated based on CalEEMod default assumptions for operations of the proposed project land uses. It was assumed that the project would be operational following the completion of construction, which would occur in 2029.

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.

Consumer products are various solvents used in non-industrial applications which emit VOCs during their product use, including detergents; cleaning compounds; polishes; floor finishes; cosmetics; personal care products; home, lawn, and garden products; disinfectants; sanitizers; aerosol paints; and automotive specialty products. Consumer product VOC emissions are estimated in CalEEMod based on the floor area of buildings and on the default factor

of pounds of VOC per building square foot per day. The CalEEMod default utilization rates and emission factors were assumed.

The VOC emissions associated with the reapplication rate and coating for each building surface type and parking surface were 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). To determine daily emissions, the annual rate is divided by 365. It was assumed that the project would comply with SDAPCD Rule 67.0.1, 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 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 building electricity and 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 because criteria pollutant emissions occur at the site of the power plant, which is typically off site. As discussed in Section 2.2.3.3, the ZEMBOP requires new construction projects to be all-electric; therefore, the project shall be designed and operated with exclusively electric systems or appliances for space conditioning, water heating, cooking, and lighting, and no emissions associated with energy sources were quantified for the air quality analysis.

Mobile Sources

Mobile sources for the project would primarily be motor vehicles (passenger vehicles and heavy-duty trucks⁷) traveling to and from the project site. Emissions from mobile sources during operation of the project were estimated using a spreadsheet-based model and emission factors from the CARB Emission EMFAC2021 and EPA AP-42 factors for paved road dust generation. Vehicle trip lengths were assumed to be 7.63 miles for truck trips (CalEEMod default for vendor trucks), and the passenger car trip length was assumed to be 15.3 miles (VMT per employee for the zone according to SANDAG SB 743 VMT Map [SANDAG 2022]) for the project.

The maximum daily trip rate, taken from the project Transportation Technical Memorandum, was 78 trips per day, of which 28 trips would be passenger vehicles (36%) and 50 trips would be trucks (64%), both of which were assumed for 7 days per week (Dudek 2024).

Vehicle emissions occur during startup, operation (running), and idling, as well as from evaporative losses when the engines are resting. The emissions factors for trucks and passenger vehicles were determined using EMFAC2021, which generates emissions factors, expressed in grams per mile, grams per trip, and grams per vehicle per day, for the fleet in a class of motor vehicles within a region for a particular study year. For this analysis, the County was selected for the region, and calendar year 2029 was selected in EMFAC to represent the project's operational start year.

⁷ Heavy-duty trucks include heavy-heavy-duty trucks (four or more axles) for fire trucks and delivery trucks.

A composite, or weighted-average, emissions factor was developed for project vehicle types if more than one vehicle category in EMFAC is anticipated to be representative of the project vehicle. The composite emission factors are weighted by VMT, population, or trips depending on the emissions process, which is the physical mechanism that results in the emissions of a pollutant. The trips by vehicle type were provided by the Transportation Technical Memorandum, and four-axle trucks were assumed to be heavy-duty trucks. For the passenger vehicles, the composite emission factor represents the weighted average emission rate for passenger vehicles, light-duty trucks, and motorcycles. Trucks were assumed to be all diesel, and passenger vehicles were assumed to be a composite mix of gasoline, diesel, natural gas, and electric, consistent with the default EMFAC vehicle mix.

Truck idling would be limited to 5 minutes, in accordance with CARB's adopted Airborne Toxic Control Measure; however, for modeling purposes, it was conservatively assumed that the heavy-duty trucks would idle for a total of 15 minutes per trip per day: entering the site, at the loading bays, and prior to exiting the site.

Stationary Sources

The project would install one emergency diesel generator (320 horsepower) for emergency backup power. CalEEMod was used to estimate criteria air pollutant emissions of the generator assuming up to 52 hours per year for maintenance and testing, in accordance with SDAPCD Rule 69.4.1 (SDAPCD 2020c). The project would also install one diesel storage tank that holds up to 1,000 gallons of diesel fuel for refueling the emergency generator and fire trucks. At the time of this analysis, it was assumed that the fuel tank would hold 416 gallons, which has since increased to 1,000 gallons. The increase of approximately 584 gallons of fuel would not substantially change the findings of this report. VOC emissions from breathing and working (i.e. evaporative) losses⁸ associated with the aboveground diesel storage tanks were estimated using the EPA TANKS model (version 4.0.9d).

For additional details see Appendix A.

2.4.2.4 Operational Health Risk Assessment

As with the construction assessment, the operational HRA included dispersion modeling using AERMOD and then cancer risk and non-cancer risk using CARB's HARP2. A unit emission rate (1 gram per second) was input for the AERMOD run to obtain the X/Q values. The maximum concentrations were determined for the 1-hour and period-averaging periods. Building heights were input into AERMOD to account for building downwash for the emergency generator, diesel storage tank, and truck idling point sources. The project would generate TACs from mobile sources (vehicular traffic) as a result of fire truck and delivery truck traffic and idling associated with operation of the fire station. Emissions from the mobile sources during operation of the project were estimated using a spreadsheet-based model and emission factors from CARB EMFAC2021. To account for off-site mobile emissions, each fire truck was assumed to travel 0.25 miles from the project site⁹, with half of the trucks traveling north on 47th Street and half of the trucks traveling south on 47th Street and then south onto Fairmount Avenue. At the time of this analysis, it was assumed that there would be 124 daily truck trips. As described in the Mobile Sources section, there would be only 50 daily truck trips. As such, the results of the operational HRA are considered conservative.

⁸ Breathing losses happen when the vapor inside the tank expands and contracts due to temperature or pressure changes. Working losses occur during the filling and emptying of the tank.

⁹ The receptors closest to all sources, including on-site sources, will be maximally exposed. There are sensitive receptors within 0.25 miles of the fire station, which would represent the maximally exposed receptor. As such, a distance of 0.25 miles is an appropriate assumption for this analysis.

In addition, the project would also generate TACs from the diesel storage tank. VOC emissions from breathing and working losses associated with the aboveground diesel storage tanks were estimated using the EPA TANKS model (version 4.0.9d). TAC emissions from working losses and breathing losses include benzene, hexane, toluene, and 2,2,4-trimethylpentane, and emissions were estimated using the CARB Identification of Volatile Organic Compound Species Profiles, Profile No. 297, dated August 1991. Potential cancer, chronic, and/or acute impacts associated with these TACs are addressed in this assessment.

The project would also generate DPM from operation of the emergency diesel generator for routine maintenance and testing. Tier 2 emission factors were assumed for the generator. Cancer and chronic impacts associated with DPM are addressed in this assessment.

For operations, the project's potential health impacts were evaluated by assuming an exposure duration of 30 years starting in the third trimester of pregnancy. Consistent with SDAPCD guidance, the Risk Management Policy using the Derived Method was used to estimate cancer risk, and the OEHHA Derived Method was used to estimate chronic non-cancer risk (SDAPCD 2022a). The cancer and non-cancer risk results were then compared to SDAPCD thresholds to assess the project impact significance. Principal parameters of the operational HRA modeling are presented in Table 7.

Table 7. Operational Health Risk Assessment AERMOD Principal Parameters

Parameter	Details
Meteorological data	The latest 3-year meteorological data (2019–2021) for the Lindbergh Field 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, considering the close proximity to the coastline, rural dispersion coefficients are the modeling default for San Diego County HRAs and were used for this analysis.
Terrain characteristics	The elevation of the modeled site is 4.6 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 idling of trucks was modeled as a point source and used emissions estimated in an EMFAC spreadsheet assuming 15 minutes of idling per trip per day. Air dispersion modeling of DPM from trucks traveling 0.25 miles from the project site was modeled as two different line sources and used emissions estimated in an EMFAC spreadsheet assuming 124 trips per day. Air dispersion modeling of DPM from the emergency diesel generator was modeled as a point source and assumed 52 hours per year for maintenance and testing. Air dispersion modeling of various TACs from the fuel storage tank was modeled as a point source.
Source release characterizations	Based on EPA methodology, the modeled line-volume sources would result in a release height of 3.4 meters, a plume height of 6.8 meters, and a plume width of 8.6 meters for diesel trucks (EPA 2015). Based on San Joaquin Valley Air Pollution Control District (SJVAPCD 2007) guidance and the fire truck specifications, the modeled point source for truck idling would result in a release height of 12 feet, a vertical stack direction, a

Table 7. Operational Health Risk Assessment AERMOD Principal Parameters

Parameter	Details
	stack inside diameter of 0.328 feet, a gas exit temperature of 199.3 °F, and a gas exit velocity of 167.881 feet per second (SJVAPCD 2007). Based on Santa Barbara County Air Pollution Control District guidance (SBCAPCD 2023) and the generator specifications, the modeled point source for the emergency diesel generator would result in a stack height of 8.2 feet, a capped stack direction, a stack inside diameter of 0.442 feet, a gas exit temperature of 931 °F, and a gas exit velocity of 198.97 feet per second. Based on SJAVPCD guidance and the diesel storage tank specifications, the modeled point source for the diesel fuel tank would result in a stack height of 8.492 feet, a vertical stack direction, a stack inside diameter of 0.003 feet, an ambient gas exit temperature, and a gas exit velocity of 0.003 feet per second.
Receptors	Discrete receptors were placed over residences proximate to the project site. One uniform cartesian grid of 9.69 × 18.04-meter spacing was placed over residences to the east.

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, Health Risk Assessment Output Files, for additional information.

2.5 Impact Analysis

2.5.1 Issue 1: Would the project conflict with or obstruct implementation of the applicable air quality plan?

2.5.1.1 Analysis

To determine the significance of the project's emissions on the environment, the City's CEQA Significance Determination Thresholds (City of San Diego 2022a) were used. Per the City's thresholds, the project would have a significant impact on air quality if the project would conflict with or obstruct implementation of the applicable air quality plan.

As stated in Section 2.3.3, 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.¹⁰ The federal O₃ maintenance plan, which is part of the SIP, was adopted 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 the 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 the County and the cities in the County as part of the development of their General Plans. The 2022 RAQS continues to build

¹⁰ For the purpose of this discussion, the relevant federal air quality plan is the O₃ maintenance plan (SDAPCD 2020a). The RAQS is the applicable plan for purposes of state air quality planning. Both plans reflect growth projections in the SDAB.

upon previous progress to reduce ground-level O₃ and also complements regional actions addressing GHG and climate change.

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

The project site is zoned Open Space, Residential-Single Unit in the City's Zoning Code (City of San Diego 2024a) and is designated Industrial Employment in the City's General Plan (City of San Diego 2024b). The Mid-City Communities Plan which, includes the project site, designates the site for Industrial. The site is undeveloped, serving as natural open space dominated by native and non-native vegetation. The site is untouched, serving as natural open space dominated by vacant land and natural vegetation. The project would develop a public service facility, specifically a fire station, which would be permitted in any zone. Therefore, the project would not result in an inconsistency or conflict with the General Plan or Community Plan and would conform to applicable policies and standards of the General Plan or Community Plan. Furthermore, as detailed in Section 2.5.2 below, the project would not result in a significant air quality impact with respect to construction- and operational-related emissions of O₃ precursors or criteria air pollutants. The project would also comply with all existing and new rules and regulations as they are implemented by SDAPCD, CARB, and/or EPA related to emissions generated during construction.

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/Sustainable Communities Strategy (RTP/SCS), the Program Environmental Impact Report for the RTP/SCS, the Air Quality Management Plan, the Federal Transportation Improvement Program, and the Regional Housing Needs Assessment. The most recent RTP/SCS was adopted in December 2021 (2021 Regional Plan) 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. SANDAG's Series 14 Regional Growth Forecast estimated that the City would have a 27.8% increase in jobs from 2016 to 2050, which is an additional 247,848 jobs or approximately 7,289 jobs per year (SANDAG 2021). Implementation of the project would result in an increase of approximately 12 jobs during operation. Thus, project site employees would represent approximately 0.001% of the total jobs that would increase each year, and the growth from the project would be within SANDAG's growth projections. Therefore, impacts would be less than significant.

2.5.1.2 Conclusion

The project's emissions are not anticipated to result in air quality impacts that were not envisioned in the County or City's growth projections and RAQS, and the minor increase in employment 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 growth beyond those contemplated by SANDAG. As such, the minimal increase in vehicle trip generation associated with development of a fire station are considered to be anticipated within the SIP and RAQS. Because the proposed land use, associated vehicle trips, and employment growth 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.

2.5.2 Issues 2 and 3: Would the project result in a violation of any air quality standard or contribute substantially to an existing or projected air quality violation? Would the project exceed 100 pounds per day of particulate matter (PM) (dust)?

To determine the significance of the project's emissions on the environment, the City's CEQA Significance Determination Thresholds (City of San Diego 2022a) were used. Per the City's thresholds, the project would have a significant impact on air quality if the project would:

- Violate any air quality standard or contribute substantially to an existing or projected air quality violation.
- 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 (including release emissions which exceed quantitative thresholds for ozone precursors).

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.

2.5.2.1 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 proposed 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 2.4.2.1, above.

Development of the proposed project would generate air pollutant emissions from entrained dust, off-road equipment, vehicle emissions, and asphalt pavement application. 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.

Table 8 shows the estimated maximum daily construction emissions associated with the conceptual construction years of the project. Emissions represent the maximum for 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). Complete details of the emissions calculations are provided in Appendix A.

Table 8. Estimated Maximum Daily Construction Criteria Air Pollutant Emissions

Year	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
	Pounds per Day					
Summer						
2026	0.46	4.00	5.90	0.01	0.82	0.26
2027	1.05	9.55	10.39	0.02	5.99	3.01
2028	0.56	4.55	8.15	0.01	0.44	0.21
2029	10.69	4.34	8.07	0.01	0.43	0.20
Winter						
2026	1.08	10.11	10.49	0.02	6.02	3.03
2027	1.04	9.59	10.33	0.02	5.99	3.01
2028	0.57	4.57	8.01	0.01	0.44	0.21
2029	0.55	4.36	7.93	0.01	0.43	0.20
Maximum	10.69	10.11	10.49	0.02	6.02	3.03
Threshold	75	250	550	250	100	67
Threshold exceeded?	No	No	No	No	No	No

Source: See Appendix A for complete results.

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.

As shown in Table 8, daily construction emissions for the project would not exceed the City's significance thresholds for criteria air pollutants during construction. The project would not violate any air quality standard or contribute substantially to an existing or projected air quality violation. Furthermore, the project would not result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard, nor would the project exceed 100 pounds per day of PM. Therefore, the project would have a less-than-significant impact related to criteria air pollutant emissions during construction and would not require mitigation.

2.5.2.2 Operation

Operation of the project would generate VOC, NO_x, CO, SO_x, PM₁₀, and PM_{2.5} emissions from mobile sources (vehicle trips), area sources, and stationary sources. Consistent with the ZEMBOP, the project would be all-electric; therefore, the project would not generate emissions from energy sources. As discussed in Section 2.4.2.3, pollutant emissions associated with long-term operations were quantified using CalEEMod, and mobile source emissions were quantified using EMFAC2021 in a spreadsheet model.

Table 9 presents the unmitigated maximum daily emissions associated with the operation of the project in 2029 after all phases of construction have been completed. Complete details of the emissions calculations are provided in Appendix A. Emissions represent maximums for 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						
Area	0.68	0.01	1.05	<0.01	<0.01	<0.01
Energy	0	0	0	0	0	0
Mobile	0.13	2.57	2.14	0.02	1.83	0.47
Stationary	0.53	1.47	1.34	<0.01	0.08	0.08
Total	1.34	4.05	4.53	0.02	1.91	0.55
Winter						
Area	0.51	N/A	N/A	N/A	N/A	N/A
Energy	0	0	0	0	0	0
Mobile	0.12	2.72	2.07	0.02	1.83	0.48
Stationary	0.53	1.47	1.34	<0.01	0.08	0.08
Total	1.16	4.19	3.41	0.02	1.91	0.56
Maximum Daily Emissions						
Maximum	1.34	4.19	4.53	0.02	1.91	0.56
Threshold	75	250	550	250	100	67
Threshold exceeded?	No	No	No	No	No	No

Source: See Appendix A for complete results

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; N/A = not applicable.

Stationary source VOC emissions include diesel fuel tank emissions in pounds per day.

The values shown are the maximum summer or winter daily emissions results from CalEEMod. Columns may not sum due to rounding.

As shown in Table 9, daily operational emissions for the project would not exceed the City's significance thresholds for any criteria air pollutant. The project would not violate any air quality standard or contribute substantially to an existing or projected air quality violation. Furthermore, the project would not result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard, nor would the project exceed 100 pounds per day of PM. Therefore, the project would result in a less-than-significant impact related to emissions of criteria air pollutant emissions during operation.

2.5.2.3 Cumulative Analysis

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 per the City's threshold. 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 SDAB to ensure it 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 localized 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 Table 8, the emissions of all criteria pollutants from the project's construction would be below the significance thresholds. Construction would be short term and temporary in nature. 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 City and the County as part of the development of their General Plans. Therefore, projects involving development 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 2.5.1 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.

Therefore, 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.

2.5.2.4 Health Effects of Criteria Air Pollutants

The following discussion is provided to connect the project's potential air quality impacts to potential health consequences. The potential health effects associated with project-generated criteria air pollutant emissions is included as additional information under Issues 2 and 3 and does not require a separate significance conclusion.

Construction and operation of the project would generate criteria air pollutant emissions; however, estimated construction and operational emissions would not exceed the SDAPCD mass-emission daily. As previously discussed, the SDAB has been designated as a federal nonattainment area for O₃ and a state nonattainment area for O₃, PM₁₀, and PM_{2.5}.

Health effects associated with O₃ include respiratory symptoms, worsening of lung disease leading to premature death, and damage to lung tissue (CARB 2024a). VOCs and NO_x are precursors to O₃, for which the SDAB is designated as nonattainment with respect to the NAAQS and CAAQS. 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 SCAB 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 O_3 concentrations would also depend on the time of year that the VOC emissions would occur because exceedances of the O_3 ambient air quality standards tend to occur between April and October when solar radiation is highest. The holistic effect of a single project's emissions of O_3 precursors is speculative because of the lack of quantitative methods to assess this impact. Because construction and operation of the project would not result in O_3 precursor emissions (i.e., VOCs or NO_x) that would exceed the SDAPCD thresholds, the project is not anticipated to substantially contribute to regional O_3 concentrations and their associated health impacts.

Health effects associated with NO_x include lung irritation and enhanced allergic responses (CARB 2024b). Construction and operation of the project would not generate NO_x emissions that would exceed the SDAPCD mass daily thresholds; therefore, the project is not anticipated to contribute to exceedances of the NAAQS and CAAQS for NO_2 or contribute to associated health effects. In addition, the SDAB is designated as in attainment of the NAAQS and CAAQS for NO_2 , and the existing NO_2 concentrations in the area are well below the NAAQS and CAAQS standards.

Health effects associated with CO include chest pain in patients with heart disease, headache, light-headedness, and reduced mental alertness (CARB 2024b). CO tends to be a localized impact associated with congested intersections. CO hotspots will be discussed in Section 5.3.4.2 under Issue 4 as a less-than-significant impact. Thus, the project's CO emissions would not contribute to the health effects associated with this pollutant.

Health effects associated with PM_{10} and $PM_{2.5}$ include premature death and hospitalization, primarily for worsening of respiratory disease (CARB 2024b). As with O_3 and NO_x , the project would not generate emissions of PM_{10} or $PM_{2.5}$ that would exceed the SDAPCD thresholds. Accordingly, the project's PM_{10} and $PM_{2.5}$ emissions are not expected to cause an increase in related health effects for this pollutant.

In summary, the project would not result in any potentially significant contribution to local or regional concentrations of nonattainment pollutants and would not result in a significant contribution to the adverse health impacts associated with those pollutants.

2.5.3 Issue 4: Would the project expose sensitive receptors to substantial pollutant concentrations?

To determine the significance of the proposed project's emissions on the environment, the City's CEQA Significance Determination Thresholds (City of San Diego 2022a) were used. Per the City's thresholds, the project would have a significant impact on air quality if the project would expose sensitive receptors to substantial pollutant concentration including air toxics such as diesel particulates.

2.5.3.1 Carbon Monoxide Hotspots

Mobile source impacts occur on two scales—regional and local. Regionally, project-related travel would add to trip generation and increase the VMT within the local airshed and the SDAB. Locally, traffic from the project would be added to the City's roadway system. If such traffic occurs during periods of poor atmospheric ventilation, is composed of a large number of vehicles cold-started and operating at pollution-inefficient speeds, and is traveling 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

vehicular emissions at a rate faster than the rate of vehicle growth and/or congestion, the potential for CO hotspots in the SDAB is steadily decreasing.

During construction, the project would result in CO emissions from construction worker vehicles, haul trucks, and off-road equipment. CCR Title 40, Section 93.123(c)(5), Procedures for Determining Localized CO, PM₁₀, and PM_{2.5} Concentrations (hotspot analysis), states that “CO, PM₁₀, and PM_{2.5} hot-spot analyses are not required to consider construction-related activities, which cause temporary increases in emissions. Temporary increases are defined as those that occur only during the construction phase and last 5 years or less at any individual site.” Since construction activities would be temporary, a project-level construction hotspot analysis would not be required.

The City’s CO hotspots screening guidance was followed to determine whether the project would require a site-specific hotspot analysis (City of San Diego 2022a).

- If a proposed development causes a six-lane road to deteriorate to LOS [level of service] E or worse, the resulting longer queuing at the traffic signals could cause a localized significant air quality impact. A site-specific CO hotspot analysis should be performed to determine if health standards are potentially violated and to identify any affected sensitive receptor.
- If a proposed development causes a six-lane road to drop to LOS F, the resultant extended wait at the signalized intersections could cause a significant air quality impact. A site-specific CO hotspot screening and/or analysis should be performed to determine if health standards are potentially violated and to identify any affected sensitive receptor.
- If a proposed development causes a four-lane road to drop to LOS E or worse, the extended wait at the signalized intersection could cause a significant air quality impact. A site-specific CO hotspot screening and/or analysis should be performed to determine if health standards are potentially violated and to identify any affected sensitive receptor.
- If a proposed development is within 400 feet of a sensitive receptor and the LOS is worse than D, a site-specific CO hotspot analysis should be performed to determine if health standards are potentially exceeded and to determine the level of adverse effect on the receptors.

According to the Transportation Technical Memorandum, the project would generate approximately 28 employee trips per day and 50 truck trips per day, for a total of 78 trips per day (Dudek 2024). Based on the estimate of project trips, the project would not require a local mobility analysis or a LOS screening analysis. Therefore, it is expected that the project would not meet or exceed the City’s hotspot screening criteria above. Therefore, a CO hotspot is not expected to occur. As such, potential project-generated impacts associated with CO hotspots would be less than significant.

2.5.3.2 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 34 months, and following completion of construction activities, project-related TAC emissions would cease. The closest sensitive receptors to the project site include single-family residences located approximately 70 feet east of the project site. As such, a construction HRA was performed for the project, as discussed below.

Based on results from the HRA, the maximally exposed individual resident off site would be located at the single-family residences to the east of the project site. Table 10 summarizes the results of the HRA for project construction, and detailed results are provided in Appendix B, Health Risk Assessment Output Files.

Table 10. Construction Activity Health Risk Assessment Results Prior to Mitigation

Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
Cancer Risk	Per million	57.9	10.0	Potentially Significant
HIC	N/A	0.03	1.0	Less than Significant

Source: Appendix B, Health Risk Assessment Output Files.

Notes: CEQA = California Environmental Quality Act; HIC = Chronic Hazard Index; N/A = not applicable.

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 the Chronic Hazard Index threshold of less than 1. Therefore, TAC emissions from construction of the project would result in a potentially significant impact, and mitigation is required.

Table 11 summarizes the results of the HRA for proposed project operation, and detailed results are provided in Appendix B.

Table 11. Operational Activity Health Risk Assessment Results

Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
Cancer Risk	Persons per million	6.2	10.0	Less than Significant
HIC	N/A	0.002	1.0	Less than Significant
Acute Impact	N/A	0.0001	1.0	Less than Significant

Source: Appendix B, Health Risk Assessment Output Files.

Notes: CEQA = California Environmental Quality Act; HIC = Chronic Hazard Index; N/A = not applicable.

As shown in Table 11, TAC exposure from operational diesel exhaust emissions would result in cancer risk below the 10 in 1 million threshold, the chronic impact would be less than 1, and the acute impact would be less than 1. Therefore, the project would result in a less-than-significant impact related to exposure to TAC emissions during operation.

2.5.3.3 Mitigation

Mitigation required to minimize potentially significant air quality impacts during construction of the project include the following mitigation measure (MM):

MM-AQ-1 **Require Use of Tier 4 Final Off-Road Equipment During Construction.** Prior to the commencement of construction activities for the project, the City of San Diego (City) shall require its construction contractor to demonstrate that all 50-horsepower or greater diesel-powered equipment is powered with California Air Resources Board-certified Tier 4 Final or better engines.

In the event of changed circumstances (e.g., changes in the availability of specific types of construction equipment), the construction contractor may submit a request to the City of San Diego Development Services Department to apply an equivalent method of 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 San Diego Development Services Department demonstrating that estimated project-generated construction emissions would not exceed the applicable SDAPCD cancer risk threshold with the alternate construction method(s). If the documentation demonstrates that project-generated construction emissions will remain below the applicable SDAPCD cancer risk threshold, then the City of San Diego Development Services Department Director may approve the alternate construction method(s), at the Director's discretion. Required construction equipment fleet and methodologies approved by the City shall be included in the contract specifications for the construction contractor.

2.5.3.4 Level of Significance After Mitigation

Table 12 summarizes the results of the construction HRA after implementation of MM-AQ-1 for construction of the proposed project.

Table 12. Construction Activity Health Risk Assessment Results After Mitigation

Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
Cancer Risk	Per million	6.9	10.0	Less than Significant
HIC	N/A	0.004	1.0	Less than Significant

Source: Appendix B.
Notes: CEQA = California Environmental Quality Act; HIC = Chronic Hazard Index; N/A = not applicable.

As shown in Table 12, after mitigation, TAC exposure from construction diesel exhaust emissions would result in cancer risk below the 10 in 1 million threshold, and the Chronic Hazard Index would be less than 1. Therefore, after implementation of mitigation, the project would result in a less-than-significant impact related to exposure to TAC emissions during construction.

2.5.4 Issue 5: Would the project create objectionable odors affecting a substantial number of people?

To determine the significance of the proposed project's emissions on the environment, the City's CEQA Significance Determination Thresholds (City of San Diego 2022a) were used. Per the City's thresholds, the project would have a significant impact on air quality if the project would create objectionable odors affecting a substantial number of people. The City also states that the significance of potential odor impacts should be determined based on what is known about the quantity of the odor compound(s) that would result from the project's proposed use(s), the types of neighboring uses potentially affected, the distance(s) between the project's point source(s) and the neighboring uses such as sensitive receptors, and the resultant concentration(s) at the receptors.

2.5.4.1 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 asphalt pavement application. Such odors are temporary, and for the types

of construction activities anticipated for the project, would generally be short-term 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.

2.5.4.2 Operation

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 commonly associated with odor complaints include agricultural uses, wastewater treatment plants, food processing facilities, chemical plants, composting, refineries, landfills, dairies, and fiberglass molding facilities. Odors would be generated from vehicles idling, entering, or leaving the fire station, such as fire trucks and ambulances, and/or maintenance and testing of the emergency generator. However, such odors would occur at magnitudes that would not affect substantial numbers of people. Furthermore, the project is not expected to produce any nuisance odors; therefore, impacts related to odors caused by the project during operations would be less than significant.

2.5.5 Would the project result in a substantial alteration of air movement in the area of the project site?

To determine the significance of the proposed project's emissions on the environment, the City's CEQA Significance Determination Thresholds (City of San Diego 2022a) were used. Per the City's thresholds, the project would have a significant impact on air quality if the project would:

- Result in a substantial alteration of air movement in the area of the project site.
- Release substantial quantities of air contaminants beyond the boundaries of the premises upon which the stationary source emitting the contaminants is located.

This issue is usually associated with placement of tall structures in close proximity that can result in tunneling of air movement in an area that was previously unobstructed. This typically occurs in developed urban areas with tall buildings that create a wind tunnel effect. In the case of the project, the fire station would be placed within a suburban area that is primarily characterized by open space and undeveloped land with nearby low-scale suburban development. Surrounding land uses include residential development to the north and east, commercial to the south, and open space to the west. The proposed height of the fire station would be a maximum of 64 feet above grade. There are no buildings close enough to the project site that could result in a situation where the proposed fire station could contribute to a substantial alteration of air movement. The project would be at different elevations than nearby residential and commercial development with intervening roads and topography that would not generate air flow patterns that would travel through to off-site developed areas creating a 'tunneling' wind effect. Although localized effects would vary from the existing condition, the substantial alteration of air movement would not occur.

Division 7, Off-Site Development Impact Regulations, Section 142.0710, states the following: "Air contaminants including smoke, charred paper, dust, soot, grime, carbon, noxious acids, toxic fumes, gases, odors, and particulate matter, or any emissions that endanger human health, cause damage to vegetation or property, or cause soiling shall not be permitted to emanate beyond the boundaries of the premises upon which the use emitting the

contaminants is located. As discussed in Section 2.5.2, the project's stationary source criteria air pollutant emissions would be below the City's thresholds of significance. As discussed in Section 2.5.3, the results of the operational HRA demonstrate that the TAC exposure from the stationary sources, including the emergency generator and diesel fuel tank, would be below the applicable thresholds for cancer risk, Chronic Hazard Index, and acute impact. As discussed above in Section 2.5.4, the project would not create objectionable odors affecting a substantial number of people. Therefore, the project would not represent a release of substantial quantities of air contaminants beyond the project boundaries.

Impacts relating to substantial alternations of air movement and substantial quantities of air contaminants would be less than significant.

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3 Greenhouse Gas Emissions

3.1 Environmental Setting

3.1.1 Climate Change Overview

Climate change refers to any significant change in measures of climate, such as temperature, precipitation, or wind patterns, lasting for an extended period of time (decades or longer). The Earth's temperature depends on the balance between energy entering and leaving the planet's system. Many factors, both natural and human, can cause changes in Earth's energy balance, including variations in the Sun's energy reaching Earth, changes in the reflectivity of Earth's atmosphere and surface, and changes in the greenhouse effect, which affects the amount of heat retained by Earth's atmosphere (EPA 2024c).

The greenhouse effect is the trapping and buildup of heat in the atmosphere (troposphere) near the Earth's surface. The greenhouse effect traps heat in the troposphere through a threefold process: Short-wave radiation emitted by the Sun is absorbed by the Earth; the Earth emits a portion of this energy in the form of long-wave radiation; and GHGs in the upper atmosphere absorb this long-wave radiation and emit it into space and toward the Earth. The greenhouse effect is a natural process that contributes to regulating the Earth's temperature and creates a pleasant, livable environment on the Earth. Human activities that emit additional GHGs to the atmosphere increase the amount of infrared radiation that gets absorbed before escaping into space, thus enhancing the greenhouse effect and causing the Earth's surface temperature to rise.

3.1.2 Greenhouse Gases

A GHG is any gas that absorbs infrared radiation in the atmosphere; in other words, GHGs trap heat in the atmosphere. GHGs include, but are not limited to, carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), O₃, water vapor, hydrofluorocarbons (HFCs), hydrochlorofluorocarbons (HCFCs), perfluorocarbons (PFCs), sulfur hexafluoride (SF₆), and nitrogen trifluoride (see also 14 CCR 15364.5).¹¹ Some GHGs, such as CO₂, CH₄, and N₂O, occur naturally and are emitted to the atmosphere through natural processes and human activities. Of these gases, CO₂ and CH₄ are emitted in the greatest quantities from human activities. Manufactured GHGs, which have a much greater heat-absorption potential than CO₂, include fluorinated gases, such as HFCs, HCFCs, PFCs, and SF₆, which are associated with certain industrial products and processes. The following paragraphs provide a summary of the three most common GHGs and their sources.¹²

Carbon Dioxide. CO₂ is a naturally occurring gas and a byproduct of human activities and is the principal anthropogenic GHG that affects the Earth's radiative balance. Natural sources of CO₂ include respiration of bacteria, plants, animals, and fungus; evaporation from oceans; volcanic out-gassing; and decomposition of dead organic matter. Human activities that generate CO₂ are from the combustion of fuels such as coal, oil, natural gas, and wood, as well as changes in land use.

¹¹ Climate forcing substances include greenhouse gases and other substances such as black carbon and aerosols.

¹² The descriptions of GHGs are summarized from the Intergovernmental Panel on Climate Change Fourth Assessment Report (IPCC 2007), CARB's Glossary of Terms Used in GHG Inventories (CARB 2018), and EPA's Basics of Climate Change (EPA 2024c).

Methane. CH₄ is produced through both natural and human activities. CH₄ is a flammable gas and is the main component of natural gas. Methane is produced through anaerobic (without oxygen) decomposition of waste in landfills, flooded rice fields, animal digestion, decomposition of animal wastes, production and distribution of natural gas and petroleum, coal production, and incomplete fossil fuel combustion.

Nitrous Oxide. N₂O is produced through natural and human activities, mainly through agricultural activities and natural biological processes, although fuel burning and other processes also create N₂O. Sources of N₂O include soil cultivation practices (microbial processes in soil and water), especially the use of commercial and organic fertilizers, manure management, industrial processes (such as in nitric acid production, nylon production, and fossil-fuel-fired power plants), vehicle emissions, and using N₂O as a propellant (such as in rockets, racecars, and aerosol sprays).

3.1.3 Global Warming Potential

Gases in the atmosphere can contribute to climate change both directly and indirectly. Direct effects occur when the gas itself absorbs radiation. Indirect radiative forcing occurs when chemical transformations of the substance produce other GHGs, when a gas influences the atmospheric lifetimes of other gases, and/or when a gas affects atmospheric processes that alter the radiative balance of the Earth (e.g., affect cloud formation or albedo) (EPA 2024c). The Intergovernmental Panel on Climate Change (IPCC) developed the global warming potential (GWP) concept to compare the ability of each GHG to trap heat in the atmosphere relative to another gas. The GWP of a GHG is defined as the ratio of the time-integrated radiative forcing from the instantaneous release of 1 kilogram of a trace substance relative to that of 1 kilogram of a reference gas (IPCC 2014). The reference gas used is CO₂; therefore, GWP-weighted emissions are measured in metric tons CO₂ equivalent (MT CO₂e).

3.1.4 Sources of Greenhouse Gas Emissions

State Inventory

According to California's 2000–2020 GHG emissions inventory (2022 edition), California emitted approximately 369.2 million metric tons (MMT) CO₂e in 2020, including emissions resulting from out-of-state electrical generation (CARB 2022a). The sources of GHG emissions in California, and their associated percent of total, include transportation (37%), industry (20%), electric power production from both in-state and out-of-state sources (16%), residential and commercial activities (10%), agriculture and forestry (9%), high-GWP substances (6%), and recycling and waste (2%).

Per-capita GHG emissions in California dropped from a 2001 peak of 13.8 MT per person to 9.3 MT per person in 2020, a 33% decrease. In 2016, statewide GHG emissions dropped below the 2020 GHG limit of 431 MMT CO₂e and have remained below the limit since that time (CARB 2022a).

Local Inventory

The City prepared a GHG inventory for the year 2019 for its 2020 Annual Report of the Climate Action Plan (CAP). The 2019 emissions inventory for the City is shown in Table 13 below.

Table 13. City of San Diego Greenhouse Gas Emissions by Sector in 2019

Sector	Annual GHG Emissions (MT CO ₂ e)	Percent of Total*
On-road transportation	5,296,000	54.9%
Electricity	2,069,000	22.4%
Natural gas	1,911,000	19.8%
Wastewater and solid waste	303,000	3.1%
Water	67,000	0.7%
Total	9,734,000	100%

Source: City of San Diego 2020.

Notes: GHG = greenhouse gas; MT CO₂e = million metric tons of carbon dioxide equivalent per year.

* Totals may not sum due to rounding.

3.1.5 Potential Effects of Climate Change

Globally, climate change has the potential to affect numerous environmental resources through uncertain impacts related to future air temperatures and precipitation patterns. The 2014 IPCC Synthesis Report indicated that warming of the climate system is unequivocal, and since the 1950s, many of the observed changes are unprecedented over decades to millennia. Signs that global climate change has occurred include warming of the atmosphere and ocean, diminished amounts of snow and ice, and rising sea levels (IPCC 2014).

In California, climate change impacts have the potential to affect sea level rise, agriculture, snowpack and water supply, forestry, wildfire risk, public health, frequency of severe weather events, and electricity demand and supply. The primary effect of global climate change has been a rise in average global tropospheric temperature. Reflecting the long-term warming trend since pre-industrial times, observed global mean surface temperature for the decade 2006–2015 was 0.87°C (1.6°F) (likely between 0.75°C [1.4°F] and 0.99°C [1.8°F]) higher than the average over the 1850–1900 period (IPCC 2018). Scientific modeling predicts that continued emissions of GHGs at or above current rates would induce more extreme climate changes during the twenty-first century than were observed during the twentieth century. Human activities are estimated to have caused approximately 1.0°C (1.8°F) of global warming above pre-industrial levels, with a likely range of 0.8°C to 1.2°C (1.4°F to 2.2°F) (IPCC 2018). Global warming is likely to reach 1.5°C (2.7°F) between 2030 and 2052 if it continues to increase at the current rate (IPCC 2018).

Although climate change is driven by global atmospheric conditions, climate change impacts are felt locally. A scientific consensus confirms that climate change is already affecting California. OEHHA identified various indicators of climate change in California, which are scientifically based measurements that track trends in various aspects of climate change. Many indicators reveal discernible evidence that climate change is occurring in California and is having significant, measurable impacts in the state. Changes in the state's climate have been observed, including an increase in annual average air temperature, with record warmth from 2012 to 2016, more frequent extreme heat events, more extreme drought, a decline in winter chill, an increase in cooling degree days and a decrease in heating degree days, and an increase in variability of statewide precipitation (OEHHA 2018).

The California Natural Resources Agency (CNRA) has released four California Climate Change Assessments (2006, 2009, 2012, and 2018), which have addressed the following: acceleration of warming across the state, more intense and frequent heat waves, greater riverine flows, accelerating sea level rise, more intense and frequent drought, more severe and frequent wildfires, more severe storms and extreme weather events, shrinking snowpack

and less overall precipitation, and ocean acidification, hypoxia, and warming. In addition to the potential statewide effects of climate change, to address local and regional governments' need for information to support action in their communities, the CNRA Fourth Assessment includes reports for nine regions of the state, including the San Diego Region, where the project is located. Key projected climate changes for the San Diego Region include the following (CNRA 2019):

- Temperature is projected to increase substantially. Along with mean temperature, heat wave frequency will increase, with more intensity and longer duration.
- Precipitation will remain highly variable but will change in character, with wetter winters, drier springs, and more frequent and severe droughts punctuated by more intense individual precipitation events.
- Broadly, wildfire risk will likely increase in the future as the climate warms. The risk for large catastrophic wildfires driven by Santa Ana wind events will also likely increase as a result of a drier autumns leading to low antecedent precipitation before the height of the Santa Ana wind season (December and January).
- Sea level along the San Diego County coast is expected to rise ... high tides combined with elevated shoreline water levels produced by both locally and distantly generated wind-driven waves will drive extreme events. Longer-term sea level will increase rapidly in the second half of the century and will be punctuated by short periods of storm-driven extreme sea levels that will imperil existing infrastructure, structures, and ecosystems with increasing frequency.

3.2 Regulatory Setting

The following regulatory framework is applicable to the project's GHG emissions sources (i.e., building energy, renewable energy, mobile sources, solid waste, and water and wastewater) because compliance with these regulations would be mandatory and could achieve GHG emissions reductions. For instance, all motor vehicles used during the project's construction and operation must meet federal and state mobile source regulations, such as fuel efficiency standards, thereby reducing emissions from mobile sources. Additionally, the utility supplying electricity to the project is required to comply with the statewide Renewables Portfolio Standard, which lowers the GHG intensity of the electricity provided.

3.2.1 Federal

Massachusetts v. EPA. In *Massachusetts v. EPA* (April 2007), the U.S. Supreme Court directed the EPA administrator to determine whether GHG emissions from new motor vehicles cause or contribute to air pollution that may reasonably be anticipated to endanger public health or welfare, or whether the science is too uncertain to make a reasoned decision. In December 2009, the administrator signed a final rule with the following two distinct findings regarding GHGs under Section 202(a) of the federal CAA:

- The EPA administrator found that elevated concentrations of GHGs—CO₂, CH₄, N₂O, HFCs, PFCs, and SF₆—in the atmosphere threaten the public health and the welfare of current and future generations. This is the “endangerment finding.”
- The EPA administrator further found the combined emissions of GHGs—CO₂, CH₄, N₂O, and HFCs—from new motor vehicles and new motor vehicle engines contribute to the GHG air pollution that endangers public health and welfare. This is the “cause or contribute finding.”

These two findings were necessary to establish the foundation for regulation of GHGs from new motor vehicles as air pollutants under the CAA.

Federal Vehicle Standards. In response to a U.S. Supreme Court ruling, the Bush administration issued Executive Order (EO) 13432 in 2007 directing EPA, the Department of Transportation, and the Department of Energy to establish regulations that reduce GHG emissions from motor vehicles, non-road vehicles, and non-road engines by 2008. In 2009, the National Highway Traffic Safety Administration (NHTSA) issued a final rule regulating fuel efficiency and GHG emissions from cars and light-duty trucks for model year 2011, and in 2010, EPA and NHTSA issued a final rule regulating cars and light-duty trucks for model years 2012–2016 (75 FR 25324–25728).

In 2010, President Barack Obama issued a memorandum directing the Department of Transportation, Department of Energy, EPA, and NHTSA to establish additional standards regarding fuel efficiency and GHG reduction, clean fuels, and advanced vehicle infrastructure. In response to this directive, EPA and NHTSA proposed stringent, coordinated federal GHG and fuel economy standards for light-duty vehicles for model years 2017–2025. The proposed standards projected achieving 163 grams per mile of CO₂ by model year 2025 on an average industry fleet-wide basis, which is equivalent to 54.5 miles per gallon if this level were achieved solely through fuel efficiency. The final rule was adopted in 2012 for model years 2017–2021 (77 FR 62624–63200). On January 12, 2017, EPA finalized its decision to maintain the current GHG emissions standards for cars and light-duty trucks for model years 2022–2025 (EPA 2023b).

In addition to the regulations applicable to cars and light-duty trucks described above, in 2011, EPA and NHTSA announced fuel economy and GHG standards for medium- and heavy-duty trucks for model years 2014–2018 (76 FR 57106–57513). The standards for CO₂ emissions and fuel consumption are tailored to three main vehicle categories: combination tractors, heavy-duty pickup trucks and vans, and vocational vehicles. According to EPA, this regulatory program will reduce GHG emissions and fuel consumption for the affected vehicles by 6% to 23% over the 2010 baselines.

In March 2022, NHTSA established new fuel economy standards that would require an industry-wide fleet average of approximately 49 miles per gallon for passenger cars and light trucks in model year 2026, by increasing fuel efficiency by 8% annually for model years 2024 and 2025, and 10% annually for model year 2026 (NHTSA 2022).

3.2.2 State

The statewide GHG emissions regulatory framework is summarized below by category: state climate change targets, building energy, renewable energy and energy procurement, mobile sources, solid waste, water, and other state regulations and goals. The following text describes EOs, legislation, regulations, and other plans and policies that would directly or indirectly reduce GHG emissions and/or address climate change issues.

State Climate Change Targets

The state has taken a number of actions to address climate change. These include EOs, legislation, and CARB plans and requirements. These are summarized below.

EO S-3-05. EO S-3-05 (June 2005) established the following statewide goals: GHG emissions should be reduced to 2000 levels by 2010, reduced to 1990 levels by 2020, and reduced to 80% below 1990 levels by 2050.

EO S-3-05 also directed the California EPA to report biannually on progress made toward meeting the GHG targets and the impacts to California due to global warming, including impacts to water supply, public health, agriculture, the coastline, and forestry.

AB 32. In furtherance of the goals established in EO S-3-05, the legislature enacted AB 32 (Núñez and Pavley). The bill is referred to as the California Global Warming Solutions Act of 2006 (September 27, 2006). AB 32 provided initial direction on creating a comprehensive multiyear program to limit California's GHG emissions to 1990 levels by 2020 and initiate the transformations required to achieve the state's long-range climate objectives.

SB 32 and AB 197. SB 32 and AB 197 (enacted in 2016) are companion bills that set a new statewide GHG reduction target, make changes to CARB's membership, increase legislative oversight of CARB's climate change-based activities, and expand dissemination of GHG and other air-quality-related emissions data to enhance transparency and accountability. More specifically, SB 32 codified the 2030 emissions reduction goal of EO B-30-15 by requiring CARB to ensure that statewide GHG emissions are reduced to 40% below 1990 levels by 2030. AB 197 established the Joint Legislative Committee on Climate Change Policies, consisting of at least three members of the senate and three members of the assembly to provide ongoing oversight of implementation of the state's climate policies. AB 197 also added two members of the legislature to CARB as nonvoting members; requires CARB to make available and update (at least annually via its website) emissions data for GHGs, criteria air pollutants, and TACs from reporting facilities; and requires CARB to identify specific information for GHG emissions reduction measures when updating the Scoping Plan.

EO B-55-18. EO B-55-18 (September 2018) establishes a statewide policy for the state to achieve carbon neutrality as soon as possible and no later than 2045, and to achieve and maintain net negative emissions thereafter. The goal is an addition to the existing statewide targets of reducing the state's GHG emissions. CARB will work with relevant state agencies to ensure that future scoping plans identify and recommend measures to achieve the carbon neutrality goal.

AB 1279. The legislature enacted AB 1279, the California Climate Crisis Act, in September 2022. The bill declares the policy of the state to achieve net zero GHG emissions as soon as possible, but no later than 2045, and achieve and maintain net negative GHG emissions thereafter. Additionally, the bill requires that by 2045, statewide anthropogenic GHG emissions be reduced to at least 85% below 1990 levels. Although AB 1279 establishes an overall policy to achieve net zero GHG emissions as soon as possible, but no later than 2045, recognizing the need to implement CO₂ removal and carbon capture, utilization, and storage technologies, the legislature established a specific target of 85% below 1990 levels by 2045 for anthropogenic GHG emissions. Therefore, the net zero target does not directly apply to development projects, but the 2045 target of 85% below 1990 levels represents the reductions required to contribute to accomplishing the state's overall net zero policy.

CARB's Climate Change Scoping Plan. One specific requirement of AB 32 was for CARB to prepare a scoping plan for achieving the maximum technologically feasible and cost-effective GHG emission reductions by 2020 (Health and Safety Code Section 38561[a]) and to update the plan at least once every 5 years. In 2008, CARB approved the first scoping plan. The Climate Change Scoping Plan: A Framework for Change (Scoping Plan) included a mix of recommended strategies that combined direct regulations, market-based approaches, voluntary measures, policies, and other emission reduction programs calculated to meet the 2020 statewide GHG emissions limit and initiate the transformations needed to achieve the state's long-range climate objectives (CARB 2008).

The Scoping Plan also identified local governments as essential partners in achieving California's goals to reduce GHG emissions because they have broad influence and, in some cases, exclusive authority over activities that contribute to significant direct and indirect GHG emissions through their planning and permitting processes, local ordinances, outreach and education efforts, and municipal operations. Specifically, the Scoping Plan encouraged local governments to adopt a reduction goal for municipal operations, and for community emissions to reduce GHGs by approximately 15% from 2008 levels by 2020. Many local governments developed community-scale local GHG reduction plans based on this Scoping Plan recommendation.

In 2014, CARB approved the first update to the Scoping Plan. The First Update to the Climate Change Scoping Plan: Building on the Framework (First Update) defined the state's GHG emission reduction priorities for the next 5 years and laid the groundwork to start the transition to the post-2020 goals set forth in EO S-3-05 and EO B-16-2012. The First Update concluded that California was on track to meet the 2020 target but recommended a 2030 midterm GHG reduction target be established to ensure a continuum of action to reduce emissions. The First Update recommended a mix of technologies in key economic sectors to reduce emissions through 2050, including energy demand reduction through efficiency and activity changes; large-scale electrification of on-road vehicles, buildings, and industrial machinery; decarbonizing electricity and fuel supplies; and the rapid market penetration of efficient and clean energy technologies. As part of the First Update, CARB recalculated the state's 1990 emissions level, using more recent GWPs identified by the IPCC, from 427 MMT CO₂e to 431 MMT CO₂e (CARB 2014).

In December 2017, CARB adopted California's 2017 Climate Change Scoping Plan (2017 Scoping Plan) for public review and comment (CARB 2017). The 2017 Scoping Plan builds on the successful framework established in the initial Scoping Plan and First Update while identifying new, technologically feasible and cost-effective strategies that will serve as the framework to achieve the 2030 GHG target as established by SB 32 and define the state's climate change priorities to 2030 and beyond. The strategies' commitments include implementing renewable energy and energy efficiency strategies (including the mandates of SB 350), increasing the stringency of the Low Carbon Fuel Standard, implementing measures identified in the Mobile Source and Freight Strategies, implementing measures identified in the proposed Short-Lived Climate Pollutant Reduction Strategy, and increasing stringency of SB 375 targets. To fill the gap in additional reductions needed to achieve the 2030 target, it recommends continuing the Cap-and-Trade Program and a measure to reduce GHGs from refineries by 20%.

CARB adopted the 2022 Scoping Plan Update in December 2022, which outlines the state's plan to reach carbon neutrality by 2045 or earlier and also assesses the state's progress toward reducing GHG emissions by at least 40% below 1990 levels by 2030, as is required by SB 32 and laid out in the 2017 Scoping Plan. The carbon neutrality goal requires CARB to expand proposed actions from the reduction only of anthropogenic sources of GHG emissions to also include those that capture and store carbon (e.g., through natural and working lands or through mechanical technologies). The carbon reduction programs build on and accelerate those currently in place, including moving to zero-emission transportation; phasing out the use of fossil gas use for heating homes and buildings; reducing chemical and refrigerants with high GWP; providing communities with sustainable options for walking, biking, and public transit; displacing fossil-fuel-fired electrical generation through use of renewable energy alternatives (e.g., solar arrays and wind turbines); and scaling up new options such as green hydrogen (CARB 2022b).

The 2022 Scoping Plan Update also emphasizes that there is no realistic path to carbon neutrality without carbon removal and sequestration and that to achieve the state's carbon neutrality goal, carbon reduction programs must be supplemented by strategies to remove and sequester carbon. Strategies for carbon removal and sequestration

include carbon capture and storage from anthropogenic point sources, where CO₂ is captured as it leaves a facility's smokestack and is injected into geologic formations or used in industrial materials (e.g., concrete); and CO₂ removal from ambient air through mechanical (e.g., direct air capture with sequestration) or nature-based (e.g., management of natural and working lands) applications.

SB 605 and SB 1383. SB 605 (2014) required CARB to complete a comprehensive strategy to reduce emissions of short-lived climate pollutants in the state, and SB 1383 (2016) required CARB to approve and implement that strategy by January 1, 2018. The Short-Lived Climate Pollutants Reduction Strategy was approved by CARB in March 2017 and lays out a range of options to reduce short-lived climate pollutant emissions in California, including regulations, incentives, and other market-supporting activities. SB 1383 also establishes specific targets for the reduction of short-lived climate pollutants (40% below 2013 levels by 2030 for CH₄ and HFCs, and 50% below 2013 levels by 2030 for anthropogenic black carbon) and provides direction for reductions from dairy and livestock operations and landfills.

Building Energy

Title 24, CCR Part 6. Title 24 of the CCR was established in 1978 and serves to enhance and regulate California's building standards. Although not initially promulgated to reduce GHG emissions, Part 6 of Title 24 specifically established building energy efficiency standards that are designed to ensure new and existing buildings in California achieve energy efficiency and preserve outdoor and indoor environmental quality. The Building Standards Commission and California Energy Commission (CEC) review these energy efficiency standards every few years and revise them if necessary (California Public Resources Code Section 25402[b][1]). The regulations receive input from members of industry and the public, with the goal of "reducing of wasteful, uneconomic, inefficient, or unnecessary consumption of energy" (California Public Resources Code Section 25402). These regulations are carefully scrutinized and analyzed for technological and economic feasibility (California Public Resources Code Section 25402[d]) and cost effectiveness (California Public Resources Code Sections 25402[b][2] and [b][3]). As a result, these standards save energy, increase electricity supply reliability, increase indoor comfort, avoid the need to construct new power plants, and help preserve the environment.

The 2022 Title 24 standards are the currently applicable building energy efficiency standards and became effective on January 1, 2023. The 2022 Title 24 standards improve upon the 2019 standards for new construction of, and additions and alterations to, residential and nonresidential buildings. The CEC adopted the 2022 Title 24 Energy Code in August 2021, and the California Building Standards Commission approved incorporating the updated code into the California Green Building Standards Code in December 2021.

Title 24, Part 11. In addition to the CEC's efforts, in 2008, the California Building Standards Commission adopted the nation's first green building standards. The California Green Building Standards Code (Part 11 of Title 24) is commonly referred to as CALGreen and establishes minimum mandatory standards and voluntary standards pertaining to the planning and design of sustainable site development, energy efficiency (in excess of the California Energy Code requirements), water conservation, material conservation, and interior air quality. The CALGreen standards took effect in January 2011 and instituted mandatory minimum environmental performance standards for all ground-up, new construction of commercial, low-rise residential and state-owned buildings, schools, and hospitals. The CALGreen 2022 standards, which are the current standards, became effective January 1, 2023.

Title 20 CCR. Title 20 of the CCR requires manufacturers of appliances to meet state and federal standards for energy and water efficiency. Performance of appliances must be certified through the CEC to demonstrate compliance with standards.

Renewable Energy and Energy Procurement

SB 1078. SB 1078 (2002) established the Renewables Portfolio Standard program, which requires an annual increase in renewable generation by the utilities.

SB 1368. SB 1368 (September 2006) required the CEC to develop and adopt regulations for GHG emission performance standards for the long-term procurement of electricity by local publicly owned utilities. These standards must be consistent with the standards adopted by the California Public Utilities Commission.

SB X1-2. SB X1-2 expanded the Renewables Portfolio Standard by establishing a renewable energy target of 20% of the total electricity sold to retail customers in California per year by December 31, 2013, and 33% by December 31, 2020, and in subsequent years. Under the bill, a renewable electrical generation facility is one that uses biomass, solar thermal, photovoltaic, wind, geothermal, fuel cells using renewable fuels, small hydroelectric generation (30 megawatts or less), digester gas, municipal solid waste conversion, landfill gas, ocean wave, ocean thermal, or tidal current, and that meets other specified requirements with respect to its location.

SB 350. SB 350 (October 2015, Clean Energy and Pollution Reduction Act) further expanded the Renewables Portfolio Standard by establishing a goal of 50% of the total electricity sold to retail customers in California per year by December 31, 2030. In addition, SB 350 included the goal to double the energy efficiency savings in electricity and natural gas final end uses (e.g., heating, cooling, lighting, or class of energy uses on which an energy efficiency program is focused) of retail customers through energy conservation and efficiency.

SB 100. SB 100 (2018) increased the standards set forth in SB 350, establishing that the following percentages of the total electricity sold to retail customers in California per year be secured from qualifying renewable energy sources: 44% by December 31, 2024; 52% by December 31, 2027; and 60% by December 31, 2030. SB 100 states that it is the policy of the state that eligible renewable energy resources and zero-carbon resources supply 100% of the retail sales of electricity to California. This bill requires that the achievement of 100% zero-carbon electricity resources does not increase the carbon emissions elsewhere in the western grid and that the goal not be achieved through resource shuffling.

SB 1020. SB 1020 (September 2022) revises the standards from SB 100, requiring the following percentage of retail sales of electricity to California end-use customers come from eligible renewable energy resources and zero-carbon resources: 90% by December 31, 2035; 95% by December 31, 2040; and 100% by December 31, 2045.

Mobile Sources

State Vehicle Standards (AB 1493 and EO B-16-12). AB 1493 (July 2002) was enacted in response to the transportation sector accounting for more than half of California's CO₂ emissions. AB 1493 required CARB to set GHG emission standards for passenger vehicles, light-duty trucks, and other vehicles determined by CARB to be vehicles primarily used for noncommercial personal transportation in the state. AB 1493 required that CARB set GHG emission standards for motor vehicles manufactured in 2009 and all subsequent model years. CARB adopted the standards in September 2004. EO B-16-12 (March 2012) required that state entities under the governor's direction and control support and facilitate the rapid commercialization of zero-emission vehicles (ZEVs). It ordered

CARB, CEC, the California Public Utilities Commission, and other relevant agencies to work with the Plug-In Electric Vehicle Collaborative and the California Fuel Cell Partnership to establish benchmarks to help achieve goals by 2015, 2020, and 2025. On a statewide basis, EO B-16-12 established a target reduction of GHG emissions from the transportation sector equaling 80% less than 1990 levels by 2050.

In March 2022, EPA reinstated California's authority under the CAA to implement its own GHG emission standards and ZEV sales mandate. EPA's action concludes its reconsideration of the 2019 Safer Affordable Fuel-Efficient Vehicles Rule Part 1 (SAFE-1) by finding that the actions taken under the previous administration as a part of SAFE-1 were decided in error and are now entirely rescinded.

EO S-1-07. Issued on January 18, 2007, EO S-1-07 sets a declining Low Carbon Fuel Standard for GHG emissions measured in CO_{2e} grams per unit of fuel energy sold in California. The initial target of the Low Carbon Fuel Standard was to reduce the carbon intensity of California passenger vehicle fuels by at least 10% by 2020. The Low Carbon Fuel Standard was subsequently amended in 2018 to require a 20% reduction in carbon intensity by 2030. This new requirement aligns with California's overall 2030 target of reducing climate changing emissions to 40% below 1990 levels by 2030, set by SB 32. CARB has adopted implementing regulations for both the 10% and 20% carbon intensity reduction targets.

SB 375. SB 375 (2008) addresses GHG emissions associated with the transportation sector through regional transportation and sustainability plans. SB 375 required CARB to adopt regional GHG reduction targets for the automobile and light-truck sector for 2020 and 2035. SB 375 requires the state's 18 regional metropolitan planning organizations (MPOs) to prepare a Sustainable Communities Strategy (SCS) as part of their Regional Transportation Plan that will achieve the GHG-reduction targets set by CARB. If an SCS is unable to achieve the GHG reduction target, an MPO must prepare an Alternative Planning Strategy demonstrating how the GHG reduction target would be achieved through alternative development patterns, infrastructure, or additional transportation measures or policies.

Pursuant to California Government Code Section 65080(b)(2)(K), an SCS does not regulate the use of land; supersede the land use authority of cities and counties; or require that a city's or county's land use policies and regulations, including those in a General Plan, be consistent with it. Nonetheless, SB 375 makes regional and local planning agencies responsible for developing those strategies as part of the federally required metropolitan transportation planning process and the state-mandated housing element process.

Advanced Clean Cars Program. The Advanced Clean Cars program (January 2012) is an emissions control program for model years 2015–2025. The program combines the control of smog- and soot-causing pollutants and GHG emissions into a single coordinated package. The package includes elements to reduce smog-forming pollution, reduce GHG emissions, promote the sale of clean cars (fuel efficient/electric), and provide the fuels for clean cars. To reduce GHG emissions, CARB, in conjunction with EPA and NHTSA, adopted new GHG standards for model year 2017–2025 vehicles; the new standards are estimated to reduce GHG emissions by 34% in 2025. The ZEV program will act as the focused technology of the Advanced Clean Cars program by requiring manufacturers to produce increasing numbers of ZEVs and plug-in hybrid electric vehicles in the 2018–2025 model years.

The Advanced Clean Cars II program establishes the next set of low-emissions vehicle and ZEV requirements for model years after 2025, to contribute to meeting federal ambient air quality O₃ standards and California's carbon neutrality standards (CARB 2024f). The Advanced Clean Cars II rulemaking package also considers technological feasibility, equity, and environmental, economic, and consumer impacts.

Advanced Clean Trucks Regulation. The purpose of the Advanced Clean Trucks Regulation (June 2020) is to accelerate the market for ZEVs in the medium- and heavy-duty truck sector and to reduce emissions of NO_x, PM_{2.5}, TACs, GHGs, and other criteria pollutants generated from on-road mobile sources (CARB 2024g). Requiring medium- and heavy-duty vehicles to transition to zero-emission technology will reduce health risks to people living in and visiting California and is needed to help California meet established near- and long-term air quality and climate mitigation targets.

EO N-79-20. EO N-79-20 (September 2020) requires CARB to develop (1) passenger vehicle and truck regulations requiring increasing volumes of new ZEVs sold in the state, with a target of 100% of in-state sales by 2035; (2) medium- and heavy-duty vehicle regulations requiring increasing volumes of new zero-emission trucks and buses sold and operated in the state, with the target of 100% of the fleet transitioning to ZEVs by 2045 everywhere feasible, and for all drayage trucks to be ZEVs by 2035; and (3) strategies, in coordination with other state agencies, EPA, and local air districts, to achieve 100% zero emissions from off-road vehicles and equipment operations in the state by 2035.

EO B-16-12. EO B-16-12 (2012) directs state entities under the governor's direction and control to support and facilitate development and distribution of ZEVs. On a statewide basis, EO B-16-12 also establishes a GHG emissions reduction target from the transportation sector equaling 80% less than 1990 levels by 2050.

Solid Waste

AB 939, AB 341, AB 1826, and SB 1383. In 1989, AB 939, known as the Integrated Waste Management Act (California Public Resources Code Sections 40000 et seq.), was passed because of the increase in waste stream and decrease in landfill capacity. The statute established the California Integrated Waste Management Board, which oversees a disposal reporting system. AB 939 mandated a reduction in waste disposal in which jurisdictions were required to meet diversion goals of all solid waste through source reduction, recycling, and composting activities of 25% by 1995 and 50% by 2000.

AB 341 (Chapter 476, Statutes of 2011 [Chesbro]) amended the California Integrated Waste Management Act of 1989 to include a provision declaring that it is the policy goal of the state that not less than 75% of solid waste generated be source-reduced, recycled, or composted by 2020 and annually thereafter. CalRecycle identified five priority strategies that would assist the state in reaching the 75% goal by 2020, legislative and regulatory recommendations, and an evaluation of program effectiveness (CalRecycle 2015).

AB 1826 (Chapter 727, Statutes of 2014, effective 2016) required businesses to recycle their organic waste (i.e., food waste, green waste, landscape and pruning waste, nonhazardous wood waste, and food-soiled paper waste mixed in with food waste) depending on the amount of waste they generate per week. This law also requires local jurisdictions across the state to implement an organic waste recycling program to divert organic waste generated by businesses, including multifamily residential dwellings that consist of five or more units.

SB 1383 (Chapter 395, Statutes of 2016) establishes targets to achieve a 50% reduction in the level of the statewide disposal of organic waste from the 2014 level by 2020 and a 75% reduction by 2025. SB 1383 granted CalRecycle was granted the regulatory authority required to achieve the organic waste disposal reduction targets and established an additional target that not less than 20% of currently disposed edible food is recovered for human consumption by 2025 (CalRecycle 2019).

Water

EO B-29-15. In response to the ongoing drought in California, EO B-29-15 (April 2015) set a goal of achieving a statewide reduction in potable urban water usage of 25% relative to water use in 2013. In response to EO B-29-15, the California Department of Water Resources modified and adopted a revised version of the Model Water Efficient Landscape Ordinance that, among other changes, significantly increased the requirements for landscape water use efficiency and broadened its applicability to include new development projects with smaller landscape areas.

EO N-10-21. In response to a state of emergency due to severe drought conditions, EO N-10-21 (July 2021) called on all Californians to voluntarily reduce their water use by 15% from their 2020 levels. Actions suggested in EO N-10-21 include reducing landscape irrigation, running dishwashers and washing machines only when full, finding and fixing leaks, installing water-efficient showerheads, taking shorter showers, using a shutoff nozzle on hoses, and taking cars to commercial car washes that use recycled water.

Other State Actions

SB 97. SB 97 (Dutton) (August 2007) directed the Governor's Office of Planning and Research to develop guidelines under CEQA for the mitigation of GHG emissions. In 2008, the Governor's Office of Planning and Research issued a technical advisory as interim guidance regarding the analysis of GHG emissions in CEQA documents. The advisory indicated that the lead agency should identify and estimate a project's GHG emissions, including those associated with vehicular traffic, energy consumption, water usage, and construction activities. The advisory further recommended that the lead agency determine significance of the impacts and impose all MMs necessary to reduce GHG emissions to a level that is less than significant (OPR 2008). The CNRA adopted the CEQA Guidelines amendments in December 2009 and they became effective in March 2010.

Under the amended CEQA Guidelines, a lead agency has the discretion to determine whether to use a quantitative or qualitative analysis or apply performance standards to determine the significance of GHG emissions resulting from a particular project (14 CCR 15064.4[a]). The CEQA Guidelines require a lead agency to consider the extent to which a project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions (14 CCR 15064.4[b]). The CEQA Guidelines also allow a lead agency to consider feasible means of mitigating the significant effects of GHG emissions, including reductions in emissions through the implementation of project features or off-site measures. The adopted amendments do not establish a GHG emissions threshold, instead allowing a lead agency to develop, adopt, and apply its own thresholds of significance or those developed by other agencies or experts. CNRA also acknowledged that a lead agency may consider compliance with regulations or requirements implementing AB 32 in determining the significance of a project's GHG emissions (CNRA 2009a).

With respect to GHG emissions, the CEQA Guidelines state in Section 15064.4(a) that lead agencies should "make a good faith effort, to the extent possible on scientific and factual data, to describe, calculate or estimate" GHG emissions. The CEQA Guidelines note that an agency may identify emissions by either selecting a "model or methodology" to quantify the emissions or by relying on "qualitative analysis or other performance-based standards" (14 CCR 15064.4[a]). Section 15064.4(b) states that the lead agency should consider the following when assessing the significance of impacts from GHG emissions on the environment: the extent a project may increase or reduce GHG emissions as compared to the existing environmental setting; whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project; and the extent

to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions (14 CCR 15064.4[b]).

3.2.3 Local

San Diego Association of Governments

Regional Transportation/Sustainable Communities Strategy

As discussed in Section 3.2.2, the passage of SB 375 requires MPOs to prepare an SCS in their RTP. SANDAG serves as the MPO for the San Diego region and is responsible for developing and adopting an SCS that integrates transportation, land use, and housing to meet GHG reduction targets set by CARB. The RTP/SCS is updated every 4 years in collaboration with 18 cities and unincorporated County of San Diego, in addition to regional, state, and federal partners. The most recent, San Diego Forward: The 2021 Regional Plan, was adopted in 2021 and provides guidance on meeting or exceed GHG targets through implementation of five key transportation strategies, including Complete Corridors, high-speed transit services, mobility hubs, flexible fleets, and a digital platform to tie the transportation system together. Through these strategies, the 2021 Regional Plan is projected to reduce per capita GHG emissions from cars and light-duty trucks to 20% below 2005 levels by 2035, exceeding the region's state-mandated reduction target of 19% (SANDAG 2021).

City of San Diego

General Plan

The City of San Diego General Plan was adopted in March 2008 and amended in 2024. The City's General Plan includes various goals and policies in the Conservation Element related to directly and indirectly reducing GHG emissions (City of San Diego 2024c). Refer to Section 2.2.3.3 for additional goals and policies. Applicable policies include the following:

Policy CE-A.2. Reduce the City's carbon footprint. Develop and adopt new or amended regulations, programs, and incentives as appropriate to implement the goals and policies set forth in the General Plan.

Policy CE-A.5. Employ sustainable or "green" building techniques for the construction and operation of buildings.

Policy CE-A.6. Design new and major remodels to City buildings, and where feasible, long term building leases for City facilities, to achieve at a minimum, the Silver Rating goal identified by the Leadership in Energy and Environmental Design (LEED) Green Building Rating System to conserve resources, including but not limited to energy and renewable resources.

Municipal Code

Construction and Demolition Debris Diversion Deposit Program

The City of San Diego's Municipal Code Sections 66.0601–66.0610 outline the Construction and Demolition (C&D) Debris Diversion Deposit Program. This program is designed to encourage the recycling and reuse of materials

generated during construction and demolition projects. The program sets specific diversion goals, requiring a significant portion of the debris to be recycled or reused instead of being disposed of in landfills.

Land Development Manual: Landscape Standards

Municipal Code Section 142.0402, Land Development Manual: Landscape Standards establish the minimum plant material, irrigation, brush management, and landscape related standards for work done in accordance with requirements of Land Development Code. Additionally, the Landscape Standards provide the technical standards to create and maintain landscapes that conserve and efficiently use water.

The WHITEBOOK

Standard Specifications for Public Works Construction (the WHITEBOOK) has been used to establish the uniformity of plans and specifications accepted and used by those involved in public works construction. The WHITEBOOK provides general provisions on construction materials and construction methods for public works projects.

Climate Action Plan

The City adopted a CAP in 2022 (City of San Diego 2022b). The 2022 CAP establishes a communitywide goal of net zero GHG emissions by 2035, committing San Diego to an accelerated trajectory for GHG emissions. The CAP outlined strategies and measures to reduce the City's contribution to GHG emissions and align with statewide emission targets (i.e., those outlined for 2030 in SB 32). The CAP serves as a qualified GHG reduction plan for purposes of tiering under CEQA as set forth in CEQA Guidelines section 15183.5. The CAP identified the following six strategies to achieve the goals and targets set forth below:

- Decarbonization of the Built Environment
- Access to Clean and Renewable Energy
- Mobility and Land Use
- Circular Economy and Clean Communities
- Resilient Infrastructure and Health Ecosystems
- Emerging Climate Actions

The CAP sets the target emission level for 2035 at net zero emissions (i.e., cutting GHG emissions to as close to zero as possible, with any remaining emissions balanced by removals) and sets a science-based, fair share target for 2030 of 63.3% below 1990 levels, which is far stricter than the SB 32 target of 40% below 1990 levels by 2030.

CAP Consistency Regulations and CAP Consistency for Plan- and Policy-Level Documents and Public Infrastructure Projects

On August 2, 2022, the City updated its GHG threshold, which included a project's compliance with CAP Consistency Regulations as the new GHG threshold upon the applicable effective date of Ordinance O-21528 implementing the CAP Consistency Regulations. Ordinance O-21528 provides amendments to the San Diego Municipal Code to ensure that all new development is consistent with the CAP Consistency Regulations and will collectively achieve the specified GHG emission reduction targets of the CAP. The CAP Consistency Regulations establish measures that

could be implemented on a project-by-project basis to demonstrate consistency with the 2022 CAP pursuant to CEQA Guidelines Section 15183.5(b)(1)(D).

For public infrastructure projects and for plan- and policy-level environmental documents, the City provides alternative guidance for how to demonstrate compliance with the CAP, as described in the Climate Action Plan Consistency for Plan- and Policy-Level Environmental Documents and Public Infrastructure Projects Memorandum (City of San Diego 2022c).

Sustainable Building Policy

The City Council adopted Council Policy 900-14, “Sustainable Building Policy,” on May 20, 2003 (City of San Diego 2003), and updated it in December 2024. This policy asserts the City’s commitment to green building practices in City facilities. The LEED (Leadership in Energy and Environmental Design) Green Building Rating System is a voluntary, consensus-based national standard for developing high-performance, sustainable buildings. This policy requires City projects to achieve the U.S. Green Building Council’s LEED “Silver” Level Certification for all new buildings and major renovations over 5,000 square feet. In addition to achieving LEED “Silver” Level Certification, Council Policy 900-14 encourages sustainable building measures for all newly constructed facilities and major renovation projects regardless of square footage. To achieve LEED Silver certification for a non-residential building, a project must earn between 50 to 59 points on the LEED rating system. Some key areas where points can be earned include reducing water use through efficient landscaping, using renewable energy, and using sustainable building materials. The project is proposing to meet LEED Silver certification building standards.

Zero Emissions Municipal Buildings & Operations Policy

In December 2024, the San Diego City Council adopted an update to Council Policy No. 900-03, the Zero Emissions Municipal Buildings & Operations Policy (ZEMBOP), which establishes an implementing framework to ensure the City leads by example in decarbonizing the municipal building sector and transitioning to a zero-emissions fleet by 2035. ZEMBOP applies to all municipal facilities and parking lots and is included in all new leases of City-owned property. With the adoption of ZEMBOP, new construction projects will be required to be all-electric, 10% more efficient than the state code, and designed to include a solar or other renewable energy system plus a battery energy storage system large enough to cover the facility’s electricity load. All new construction projects shall be designed and operated with exclusively electric systems or appliances for space conditioning, water heating, cooking, and lighting, and without using any fossil fuel energy source for non-emergency electricity generation or any other non-emergency functions. All fleet parking spaces in associated parking lots must be EV Ready (i.e. wiring to the spaces), and staff and public spaces must meet CALGreen Tier 1 requirements for EV charging infrastructure.

3.3 Significance Criteria and Methodology

3.3.1 Thresholds of Significance

City of San Diego

The City has established initial study checklist questions to address the significance of GHG emissions impacts (City of San Diego 2022a). Specifically, would the project:

1. Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?
2. Conflict with the City's Climate Action Plan or another applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

Pursuant to CEQA Guidelines Sections 15183.5(b), 15064(h)(3), and 15130(d), the City may determine that a project's incremental contribution to a cumulative GHG effect is not cumulatively considerable if the project complies with the requirements of a previously adopted GHG emission reduction plan. The City's CAP serves as a qualified GHG reduction plan for purposes of tiering under CEQA and CEQA Guidelines section 15183.5. According to the City's Significance Determination Thresholds (City of San Diego 2022a), projects that are consistent with the City's CAP would result in a less-than-significant cumulative impact regarding GHG emissions. Projects that are not consistent with the CAP must prepare a comprehensive project-specific analysis of GHG emissions, including quantification of existing and projected GHG emissions and incorporation of the measures in the CAP Consistency Regulations, to the extent feasible. Cumulative GHG impacts would be significant for any project that is not consistent with the CAP.

For public infrastructure projects like fire stations and for plan- and policy-level environmental documents, the City's Planning Department has prepared a memorandum, Climate Action Plan Consistency for Plan- and Policy-Level Documents and Public Infrastructure Projects, to provide guidance on significance determination as it relates to consistency with the strategies in the CAP (City of San Diego 2022c). In cases of infrastructure improvement projects, the City advises projects to comply with the CAP through a discussion of how the project is consistent with each of the CAP's six strategies.

3.4 Impact Analysis

3.4.1 Issue 1: Would the project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

Consistency with the Climate Action Plan Strategies

To determine the significance of the proposed project's impact on the environment, the City's CEQA Significance Determination Thresholds (City of San Diego 2022a) were used. The method for determining significance depends on whether the action requires plan- or policy-level or project-level environmental analysis.

- For plan- and policy-level environmental documents, as well as environmental documents for public infrastructure projects, the Planning Department has prepared a Memorandum, Climate Action Plan Consistency for Plan- and Policy-Level Documents and Public Infrastructure Projects, to provide guidance on significance determination as it relates to consistency with the strategies in the Climate Action Plan.

As the project is a public infrastructure project, the project's significance is evaluated per the Memorandum, Climate Action Plan Consistency for Plan- and Policy-Level Documents and Public Infrastructure Projects (City of San Diego 2022c).

Pursuant to the City's Memorandum, Climate Action Plan Consistency for Plan- and Policy-Level Environmental Documents and Public Infrastructure Projects (City of San Diego 2022c), the environmental analysis should include a discussion of the project's potential to conflict with each of the six strategies of the CAP. The CAP's six strategies were developed to reduce citywide GHG emissions and achieve the GHG reduction targets identified in the CAP. The project's overall consistency and potential to conflict with these strategies is discussed below.

Strategy 1: Decarbonization of the Built Environment

This strategy aims to avoid GHG emissions from buildings across the City and improve indoor air quality. It includes measures to address emissions from existing buildings, municipal facilities, and new development.

As a new City municipal building greater than 5,000 square feet, the project would be required to achieve the U.S. Green Building Council's LEED Silver Certification. In addition, consistent with the ZEMBOP, the project would be all-electric. Furthermore, the project would provide two electric vehicle parking spaces. Therefore, the project would support and would not conflict with the City's goals to decarbonize the built environment.

Strategy 2: Access to Clean and Renewable Energy

This strategy maintains the City's commitment to 100% renewable energy through San Diego Community Power, sets targets for converting the City's fleet of vehicles to electric, and aims to increase the number of electric vehicles used by our communities. As described in Strategy 1, the project would provide two electric vehicle parking spaces. In addition, the proposed building would be equipped with solar ready design features that would facilitate and optimize the installation of a rooftop solar photovoltaic (PV) system, following construction of the building. The project would not conflict with the City's ability to implement this strategy.

Strategy 3: Mobility and Land Use

This strategy focuses on emissions from transportation and includes actions that support mode shift through mobility and land use actions and policies.

The project site remains undeveloped, serving as natural open space dominated by native and non-native vegetation. The project would develop a public service facility, specifically a fire station, which is a use permitted in any land use designation. If necessary, temporary lane closures on roadways would not result in a permanent change to the LOS of the surrounding transportation system and would not impact any public transit facilities. The project would not conflict with or impede implementation of a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities. In addition, the project would involve designing and implementing a safe and interconnected pedestrian route for the project site and surrounding area. Frontage improvements, including a sidewalk, would be constructed along the project's 47th Street boundary, and a crosswalk would connect the site to the existing sidewalk across the street. The project would not involve any change or modification to existing bike facilities and transit service in the area. While Strategy 3 is not directly applicable to the project, the project would not conflict with the applicable CAP goals and strategies identified in Strategy 3.

Strategy 4: Circular Economy and Clean Communities

This strategy maintains a 90% waste diversion rate, as well as CH₄ capture from landfill and wastewater treatment facilities. It also includes actions to increase healthy food access and food recovery.

The project includes the requirement for the construction contractor to comply with the latest edition of the WHITEBOOK. Section 5-14, Construction and Demolition Waste Management, requires a minimum waste management reduction goal and the preparation of a waste management form. The project would comply with Municipal Code Sections 66.0601–66.0610 (the City’s Construction and Demolition Debris Diversion Deposit Program). Therefore, the project would not conflict with the applicable CAP goals and strategies identified in Strategy 4.

Strategy 5: Resilient Infrastructure and Healthy Ecosystems

This strategy will help the City thrive in the face of impacts attributed to climate change through a greater focus on the greening of the City, starting with Communities of Concern. It also includes targets for the restoration of salt marshland for carbon sequestration and increasing local water supply through Pure Water San Diego.

Due to the type of project, this strategy is not directly applicable. However, the project includes a landscaping plan adapted to the site consistent with the landscaping requirements set forth in Municipal Code Section 142.0402, Land Development Manual, Landscape Standards, and other applicable City and regional standards for landscape installation and maintenance. The project is a fire station that would increase fire protection throughout the community, thereby supporting resilient infrastructure. The project would not conflict with the applicable CAP goals and strategies identified in Strategy 5.

Strategy 6: Emerging Climate Actions

Strategy 6 addresses GHG emissions that will remain after all identified measures and actions have been implemented, including implementation of emerging climate actions. Further action, new policies, technological innovation, partnerships, and research are all necessary components of emerging climate actions that are beyond the ability of the CAP to quantify and assess.

The project would indirectly support broad goals and strategies of the CAP by providing a necessary public service. Project operation would implement emerging technologies to reduce GHGs using more-efficient vehicles and maintenance methods. While Strategy 6 is not directly applicable to the project, the project does not include any features that would conflict with the City’s action to implement Strategy 6.

Conclusion

The project would be consistent with and would not conflict with the applicable strategies of the City CAP. Therefore, the project would not generate GHG emissions that would have a significant impact on the environment. The project would have a less-than-significant impact.

3.4.2 Issue 2: Would the project conflict with the City’s Climate Action Plan or another applicable plan, policy, or

regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases?

To determine the significance of the proposed project's impact on the environment, the City's CEQA Significance Determination Thresholds (City of San Diego 2022c) were used. The method for determining significance depends on whether the action requires plan- or policy-level or project-level environmental analysis.

- For plan- and policy-level environmental documents, as well as environmental documents for public infrastructure projects, the Planning Department has prepared a Memorandum, Climate Action Plan Consistency for Plan- and Policy-Level Documents and Public Infrastructure Projects, to provide guidance on significance determination as it relates to consistency with the strategies in the Climate Action Plan.

As the project is a public infrastructure project, the project's significance is evaluated per the Memorandum, Climate Action Plan Consistency for Plan- and Policy-Level Documents and Public Infrastructure Projects (City of San Diego 2022b).

As described in Section 3.4.1, the project would be consistent with and would not conflict with the applicable strategies of the City's CAP. As such, the project would not conflict with the City's CAP or another applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs.

Furthermore, the project would not conflict with the City's General Plan Policies CE-A.2 and CE-A.5. As detailed in Issue 1, the project would achieve the U.S. Green Building Council's LEED Silver Certification, and per the City's ZEMBOP, the project would be all-electric. As such, the project would employ sustainable building techniques for the construction and operation of buildings, which would help reduce the City's carbon footprint. In addition, the project would not conflict with General Plan Policy CE-A.6, as the project would achieve the LEED Silver Rating.

Conclusion

The project would be consistent with and would not conflict with the applicable strategies of the City's CAP and the City's General Plan. Therefore, the project would not conflict with the City's CAP or another applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs. The project would have a less-than-significant impact.

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4 Summary of Conclusions

Regarding the potential for the project to conflict with or obstruct implementation of the applicable air quality plan, the project would result in a less-than-significant impact. The project would not exceed construction or operational thresholds of significance and would result in a less-than-significant impact. The project would not result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard, nor would the project exceed 100 pounds per day of PM (dust); therefore, the impact would be less than significant. Regarding the potential for the project to expose sensitive receptors to substantial pollutant concentrations (related to CO hotspots and TACs), the project would result in a less-than-significant impact during operation, and during construction with incorporation of MM-AQ-1. The project was determined to result in a less-than-significant impact related to the potential to create objectionable odors affecting a substantial number of people. The project would result in a less-than-significant impact regarding its potential to result in a substantial alteration of air movement beyond the boundaries of the premises upon which stationary sources are located.

The project would not conflict with the strategies of the City CAP. Therefore, the project would not generate GHG emissions that would have a significant environmental impact, nor would it conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs, resulting in a potential cumulative GHG impact that would be less than significant.

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Fairmount Fire Station
Construction Start Date	9/16/2026
Operational Year	2029
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.70
Precipitation (days)	6.40
Location	32.724943472611784, -117.09384056311711
County	San Diego
City	San Diego
Air District	San Diego County APCD
Air Basin	San Diego
TAZ	6432
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	San Diego Gas & Electric
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
General Light Industry	22.4	1000sqft	0.52	22,443	3,858	—	—	Workers

Enclosed Parking with Elevator	1.60	1000sqft	0.04	1,605	0.00	—	—	—
Other Non-Asphalt Surfaces	3.64	1000sqft	0.08	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	10.7	10.7	9.55	10.4	0.02	0.40	5.59	5.99	0.37	2.64	3.01	—	2,470	2,470	0.11	0.12	1.65	2,509
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.31	1.08	10.1	10.5	0.02	0.43	5.59	6.02	0.39	2.64	3.03	—	2,481	2,481	0.11	0.12	0.05	2,520
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.85	0.70	6.36	7.15	0.01	0.26	3.45	3.72	0.24	1.62	1.87	—	1,684	1,684	0.07	0.08	0.49	1,709
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.15	0.13	1.16	1.31	< 0.005	0.05	0.63	0.68	0.04	0.30	0.34	—	279	279	0.01	0.01	0.08	283

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
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Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.56	0.46	4.00	5.90	0.01	0.19	0.63	0.82	0.17	0.08	0.26	—	1,104	1,104	0.05	0.04	0.61	1,117
2027	1.27	1.05	9.55	10.4	0.02	0.40	5.59	5.99	0.37	2.64	3.01	—	2,470	2,470	0.11	0.12	1.65	2,509
2028	0.67	0.57	4.55	8.15	0.01	0.15	0.29	0.44	0.14	0.07	0.21	—	1,714	1,714	0.06	0.04	1.09	1,729
2029	10.7	10.7	4.34	8.07	0.01	0.15	0.29	0.43	0.14	0.07	0.20	—	1,705	1,705	0.06	0.04	0.98	1,720
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.31	1.08	10.1	10.5	0.02	0.43	5.59	6.02	0.39	2.64	3.03	—	2,481	2,481	0.11	0.12	0.05	2,520
2027	1.27	1.04	9.59	10.3	0.02	0.40	5.59	5.99	0.37	2.64	3.01	—	2,464	2,464	0.11	0.12	0.04	2,502
2028	0.67	0.57	4.57	8.01	0.01	0.15	0.29	0.44	0.14	0.07	0.21	—	1,700	1,700	0.06	0.04	0.03	1,713
2029	0.65	0.55	4.36	7.93	0.01	0.14	0.29	0.43	0.13	0.07	0.20	—	1,691	1,691	0.06	0.04	0.03	1,704
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.23	0.19	1.78	1.94	< 0.005	0.08	0.90	0.98	0.07	0.41	0.48	—	444	444	0.02	0.02	0.14	451
2027	0.85	0.70	6.36	7.15	0.01	0.26	3.45	3.72	0.24	1.62	1.87	—	1,684	1,684	0.07	0.08	0.49	1,709
2028	0.48	0.40	3.27	5.75	0.01	0.11	0.21	0.32	0.10	0.05	0.15	—	1,219	1,219	0.05	0.03	0.34	1,229
2029	0.47	0.44	1.22	2.13	< 0.005	0.04	0.08	0.11	0.04	0.02	0.05	—	439	439	0.02	0.01	0.11	443
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.04	0.04	0.33	0.35	< 0.005	0.01	0.16	0.18	0.01	0.08	0.09	—	73.5	73.5	< 0.005	< 0.005	0.02	74.7
2027	0.15	0.13	1.16	1.31	< 0.005	0.05	0.63	0.68	0.04	0.30	0.34	—	279	279	0.01	0.01	0.08	283
2028	0.09	0.07	0.60	1.05	< 0.005	0.02	0.04	0.06	0.02	0.01	0.03	—	202	202	0.01	< 0.005	0.06	203
2029	0.09	0.08	0.22	0.39	< 0.005	0.01	0.01	0.02	0.01	< 0.005	0.01	—	72.7	72.7	< 0.005	< 0.005	0.02	73.3

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
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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.27	1.21	1.48	2.38	< 0.005	0.08	0.00	0.08	0.08	0.00	0.08	24.9	336	361	2.58	0.03	5.84	440
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.09	1.03	1.47	1.34	< 0.005	0.08	0.00	0.08	0.08	0.00	0.08	24.9	331	356	2.58	0.03	5.84	436
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.68	0.67	0.21	0.71	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	24.9	103	128	2.57	0.03	5.84	207
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.12	0.12	0.04	0.13	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	4.13	17.1	21.2	0.42	< 0.005	0.97	34.3

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.70	0.68	0.01	1.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.30	4.30	< 0.005	< 0.005	—	4.32
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	58.4	58.4	0.04	0.01	—	61.0
Water	—	—	—	—	—	—	—	—	—	—	—	9.95	4.40	14.3	1.02	0.02	—	47.3
Waste	—	—	—	—	—	—	—	—	—	—	—	15.0	0.00	15.0	1.50	0.00	—	52.5
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.84	5.84
Stationary	0.58	0.53	1.47	1.34	< 0.005	0.08	0.00	0.08	0.08	0.00	0.08	0.00	269	269	0.01	< 0.005	0.00	270
Total	1.27	1.21	1.48	2.38	< 0.005	0.08	0.00	0.08	0.08	0.00	0.08	24.9	336	361	2.58	0.03	5.84	440

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.51	0.51	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	58.4	58.4	0.04	0.01	—	61.0
Water	—	—	—	—	—	—	—	—	—	—	—	9.95	4.40	14.3	1.02	0.02	—	47.3
Waste	—	—	—	—	—	—	—	—	—	—	—	15.0	0.00	15.0	1.50	0.00	—	52.5
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.84	5.84
Stationary	0.58	0.53	1.47	1.34	< 0.005	0.08	0.00	0.08	0.08	0.00	0.08	0.00	269	269	0.01	< 0.005	0.00	270
Total	1.09	1.03	1.47	1.34	< 0.005	0.08	0.00	0.08	0.08	0.00	0.08	24.9	331	356	2.58	0.03	5.84	436
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.60	0.59	< 0.005	0.52	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.12	2.12	< 0.005	< 0.005	—	2.13
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	58.4	58.4	0.04	0.01	—	61.0
Water	—	—	—	—	—	—	—	—	—	—	—	9.95	4.40	14.3	1.02	0.02	—	47.3
Waste	—	—	—	—	—	—	—	—	—	—	—	15.0	0.00	15.0	1.50	0.00	—	52.5
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.84	5.84
Stationary	0.08	0.07	0.21	0.19	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	38.3	38.3	< 0.005	< 0.005	0.00	38.4
Total	0.68	0.67	0.21	0.71	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	24.9	103	128	2.57	0.03	5.84	207
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.11	0.11	< 0.005	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.35	0.35	< 0.005	< 0.005	—	0.35
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	9.67	9.67	0.01	< 0.005	—	10.1
Water	—	—	—	—	—	—	—	—	—	—	—	1.65	0.73	2.38	0.17	< 0.005	—	7.82
Waste	—	—	—	—	—	—	—	—	—	—	—	2.48	0.00	2.48	0.25	0.00	—	8.69
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.97	0.97

Stationa	0.02	0.01	0.04	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	6.34	6.34	< 0.005	< 0.005	0.00	6.36
Total	0.12	0.12	0.04	0.13	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	4.13	17.1	21.2	0.42	< 0.005	0.97	34.3

3. Construction Emissions Details

3.1. Site Preparation (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	0.52	0.44	3.74	5.54	0.01	0.19	—	0.19	0.17	—	0.17	—	858	858	0.03	0.01	—	861
Dust From Material Movement	—	—	—	—	—	—	0.53	0.53	—	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.52	0.44	3.74	5.54	0.01	0.19	—	0.19	0.17	—	0.17	—	858	858	0.03	0.01	—	861
Dust From Material Movement	—	—	—	—	—	—	0.53	0.53	—	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

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.20	0.30	< 0.005	0.01	—	0.01	0.01	—	0.01	—	47.0	47.0	< 0.005	< 0.005	—	47.2
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	< 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	0.01	< 0.005	0.04	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.79	7.79	< 0.005	< 0.005	—	7.81
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.02	0.26	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	55.8	55.8	< 0.005	< 0.005	0.20	56.6
Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	49.1	49.1	< 0.005	0.01	0.12	51.4
Hauling	0.01	< 0.005	0.18	0.07	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	141	141	0.01	0.02	0.29	148
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.23	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	52.7	52.7	< 0.005	< 0.005	0.01	53.4
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	0.01	< 0.005	0.19	0.07	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	141	141	0.01	0.02	0.01	148
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	—	2.91	2.91	< 0.005	< 0.005	< 0.005	2.95
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.69	2.69	< 0.005	< 0.005	< 0.005	2.81
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.71	7.71	< 0.005	< 0.005	0.01	8.10
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.48	0.48	< 0.005	< 0.005	< 0.005	0.49
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.45	0.45	< 0.005	< 0.005	< 0.005	0.47
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.28	1.28	< 0.005	< 0.005	< 0.005	1.34

3.3. Grading (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	1.22	1.02	9.19	9.69	0.02	0.42	—	0.42	0.39	—	0.39	—	1,714	1,714	0.07	0.01	—	1,720
Dust From Material Movement	—	—	—	—	—	—	5.31	5.31	—	2.57	2.57	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.19	0.16	1.42	1.50	< 0.005	0.06	—	0.06	0.06	—	0.06	—	265	265	0.01	< 0.005	—	266
Dust From Material Movement	—	—	—	—	—	—	0.82	0.82	—	0.40	0.40	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.26	0.27	< 0.005	0.01	—	0.01	0.01	—	0.01	—	43.9	43.9	< 0.005	< 0.005	—	44.0
Dust From Material Movement	—	—	—	—	—	—	0.15	0.15	—	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.04	0.46	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	105	105	0.01	< 0.005	0.01	107
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	98.3	98.3	< 0.005	0.01	0.01	103
Hauling	0.04	0.01	0.75	0.28	< 0.005	0.01	0.15	0.16	0.01	0.04	0.05	—	563	563	0.03	0.09	0.03	591
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	16.4	16.4	< 0.005	< 0.005	0.03	16.7
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	15.2	15.2	< 0.005	< 0.005	0.02	15.9
Hauling	0.01	< 0.005	0.12	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	87.0	87.0	< 0.005	0.01	0.08	91.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.72	2.72	< 0.005	< 0.005	< 0.005	2.76
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.52	2.52	< 0.005	< 0.005	< 0.005	2.63
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.4	14.4	< 0.005	< 0.005	0.01	15.1

3.5. Grading (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	1.18	0.99	8.70	9.56	0.02	0.39	—	0.39	0.36	—	0.36	—	1,715	1,715	0.07	0.01	—	1,720
Dust From Material Movement	—	—	—	—	—	—	5.31	5.31	—	2.57	2.57	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.18	0.99	8.70	9.56	0.02	0.39	—	0.39	0.36	—	0.36	—	1,715	1,715	0.07	0.01	—	1,720
Dust From Material Movement	—	—	—	—	—	—	5.31	5.31	—	2.57	2.57	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.72	0.61	5.33	5.86	0.01	0.24	—	0.24	0.22	—	0.22	—	1,050	1,050	0.04	0.01	—	1,054
Dust From Material Movement	—	—	—	—	—	—	3.25	3.25	—	1.57	1.57	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	0.97	1.07	< 0.005	0.04	—	0.04	0.04	—	0.04	—	174	174	0.01	< 0.005	—	174
Dust From Material Movement	—	—	—	—	—	—	0.59	0.59	—	0.29	0.29	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.03	0.49	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	110	110	0.01	< 0.005	0.36	111
Vendor	0.01	< 0.005	0.12	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	96.2	96.2	< 0.005	0.01	0.21	100
Hauling	0.04	0.01	0.70	0.27	< 0.005	0.01	0.15	0.16	0.01	0.04	0.05	—	549	549	0.03	0.09	1.08	577
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.04	0.43	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	104	104	0.01	< 0.005	0.01	105
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	96.2	96.2	< 0.005	0.01	0.01	100

Hauling	0.04	0.01	0.72	0.27	< 0.005	0.01	0.15	0.16	0.01	0.04	0.05	—	550	550	0.03	0.09	0.03	576
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.27	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	64.0	64.0	< 0.005	< 0.005	0.09	64.9
Vendor	< 0.005	< 0.005	0.08	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	58.9	58.9	< 0.005	0.01	0.06	61.5
Hauling	0.02	0.01	0.44	0.17	< 0.005	0.01	0.09	0.10	< 0.005	0.02	0.03	—	337	337	0.02	0.05	0.29	353
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.6	10.6	< 0.005	< 0.005	0.02	10.7
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.76	9.76	< 0.005	< 0.005	0.01	10.2
Hauling	< 0.005	< 0.005	0.08	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	55.7	55.7	< 0.005	0.01	0.05	58.5

3.7. Building Construction (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	0.57	0.48	4.56	6.90	0.01	0.17	—	0.17	0.15	—	0.15	—	1,304	1,304	0.05	0.01	—	1,309
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.46	0.70	< 0.005	0.02	—	0.02	0.02	—	0.02	—	133	133	0.01	< 0.005	—	133

Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	22.0	22.0	< 0.005	< 0.005	—	22.1
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.09	1.08	0.00	0.00	0.25	0.25	0.00	0.06	0.06	—	259	259	0.01	0.01	0.02	262
Vendor	0.01	< 0.005	0.19	0.09	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	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	0.11	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	26.6	26.6	< 0.005	< 0.005	0.04	27.0
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.7	14.7	< 0.005	< 0.005	0.01	15.3
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	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.40	4.40	< 0.005	< 0.005	0.01	4.46
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.43	2.43	< 0.005	< 0.005	< 0.005	2.54
Hauling	0.00	0.00	0.00	0.00	0.00	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 (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
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Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.55	0.46	4.30	6.91	0.01	0.15	—	0.15	0.14	—	0.14	—	1,305	1,305	0.05	0.01	—	1,309
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.55	0.46	4.30	6.91	0.01	0.15	—	0.15	0.14	—	0.14	—	1,305	1,305	0.05	0.01	—	1,309
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.39	0.33	3.08	4.95	0.01	0.11	—	0.11	0.10	—	0.10	—	934	934	0.04	0.01	—	938
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.56	0.90	< 0.005	0.02	—	0.02	0.02	—	0.02	—	155	155	0.01	< 0.005	—	155
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.07	1.16	0.00	0.00	0.25	0.25	0.00	0.06	0.06	—	269	269	< 0.005	0.01	0.80	273
Vendor	0.01	< 0.005	0.17	0.08	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	141	141	0.01	0.02	0.29	147
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.08	1.02	0.00	0.00	0.25	0.25	0.00	0.06	0.06	—	254	254	0.01	0.01	0.02	257
Vendor	0.01	< 0.005	0.18	0.08	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	141	141	0.01	0.02	0.01	147
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.06	0.74	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	184	184	< 0.005	0.01	0.25	186
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	101	101	< 0.005	0.01	0.09	105
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.13	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	30.4	30.4	< 0.005	< 0.005	0.04	30.8
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	16.7	16.7	< 0.005	< 0.005	0.01	17.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Building Construction (2029) - 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 Equipm	0.53	0.45	4.11	6.89	0.01	0.14	—	0.14	0.13	—	0.13	—	1,304	1,304	0.05	0.01	—	1,309
Onsite truck	0.00	0.00	0.00	0.00	0.00	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 Equipm ent	0.53	0.45	4.11	6.89	0.01	0.14	—	0.14	0.13	—	0.13	—	1,304	1,304	0.05	0.01	—	1,309
Onsite truck	0.00	0.00	0.00	0.00	0.00	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 ent	0.12	0.10	0.92	1.54	< 0.005	0.03	—	0.03	0.03	—	0.03	—	291	291	0.01	< 0.005	—	292
Onsite truck	0.00	0.00	0.00	0.00	0.00	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 ent	0.02	0.02	0.17	0.28	< 0.005	0.01	—	0.01	0.01	—	0.01	—	48.2	48.2	< 0.005	< 0.005	—	48.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.06	1.10	0.00	0.00	0.25	0.25	0.00	0.06	0.06	—	265	265	< 0.005	0.01	0.72	268
Vendor	0.01	< 0.005	0.16	0.08	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	137	137	0.01	0.02	0.25	143
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.07	0.96	0.00	0.00	0.25	0.25	0.00	0.06	0.06	—	250	250	0.01	0.01	0.02	253
Vendor	0.01	< 0.005	0.17	0.08	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	137	137	0.01	0.02	0.01	143
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.22	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	56.3	56.3	< 0.005	< 0.005	0.07	57.0
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	30.5	30.5	< 0.005	< 0.005	0.02	31.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.31	9.31	< 0.005	< 0.005	0.01	9.44
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.05	5.05	< 0.005	< 0.005	< 0.005	5.27
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Paving (2029) - 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	0.55	0.46	3.98	5.31	0.01	0.15	—	0.15	0.14	—	0.14	—	823	823	0.03	0.01	—	826
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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.03	0.03	0.22	0.29	< 0.005	0.01	—	0.01	0.01	—	0.01	—	45.1	45.1	< 0.005	< 0.005	—	45.2
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.01	< 0.005	0.04	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.46	7.46	< 0.005	< 0.005	—	7.49
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.04	0.66	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	159	159	< 0.005	0.01	0.43	161
Vendor	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	45.5	45.5	< 0.005	0.01	0.08	47.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.29	8.29	< 0.005	< 0.005	0.01	8.40
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.50	2.50	< 0.005	< 0.005	< 0.005	2.61

Hauling	0.00	0.00	0.00	0.00	0.00	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	—	1.37	1.37	< 0.005	< 0.005	< 0.005	1.39
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.41	0.41	< 0.005	< 0.005	< 0.005	0.43
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Architectural Coating (2029) - 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	0.12	0.10	0.79	1.11	< 0.005	0.01	—	0.01	0.01	—	0.01	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	10.6	10.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.66	3.66	< 0.005	< 0.005	—	3.67

Architect ural Coating	0.29	0.29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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 ent	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.61	0.61	< 0.005	< 0.005	—	0.61
Architect ural Coating s	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.15	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	35.3	35.3	< 0.005	< 0.005	0.10	35.8
Vendor	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	45.5	45.5	< 0.005	0.01	0.08	47.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	—	0.92	0.92	< 0.005	< 0.005	< 0.005	0.93
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.25	1.25	< 0.005	< 0.005	< 0.005	1.30
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	—	0.15	0.15	< 0.005	< 0.005	< 0.005	0.15
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
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4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	57.7	57.7	0.04	0.01	—	60.3
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	0.73	0.73	< 0.005	< 0.005	—	0.76
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	58.4	58.4	0.04	0.01	—	61.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	57.7	57.7	0.04	0.01	—	60.3
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	0.73	0.73	< 0.005	< 0.005	—	0.76
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	58.4	58.4	0.04	0.01	—	61.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	9.55	9.55	0.01	< 0.005	—	9.98
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	0.12	0.12	< 0.005	< 0.005	—	0.13
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	9.67	9.67	0.01	< 0.005	—	10.1

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Enclose Parking with Elevator	0.00	0.00	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 Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking with Elevator	0.00	0.00	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 Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking with Elevator	0.00	0.00	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 Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.48	0.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.19	0.17	0.01	1.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.30	4.30	< 0.005	< 0.005	—	4.32
Total	0.70	0.68	0.01	1.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.30	4.30	< 0.005	< 0.005	—	4.32
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.48	0.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.51	0.51	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Product	0.09	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.02	0.02	< 0.005	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.35	0.35	< 0.005	< 0.005	—	0.35
Total	0.11	0.11	< 0.005	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.35	0.35	< 0.005	< 0.005	—	0.35

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	9.95	4.40	14.3	1.02	0.02	—	47.3
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	9.95	4.40	14.3	1.02	0.02	—	47.3

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	9.95	4.40	14.3	1.02	0.02	—	47.3
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	9.95	4.40	14.3	1.02	0.02	—	47.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	1.65	0.73	2.38	0.17	< 0.005	—	7.82
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1.65	0.73	2.38	0.17	< 0.005	—	7.82

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	15.0	0.00	15.0	1.50	0.00	—	52.5
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	15.0	0.00	15.0	1.50	0.00	—	52.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	15.0	0.00	15.0	1.50	0.00	—	52.5
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	15.0	0.00	15.0	1.50	0.00	—	52.5
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	2.48	0.00	2.48	0.25	0.00	—	8.69

Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	2.48	0.00	2.48	0.25	0.00	—	8.69

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.84	5.84
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.84	5.84
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.84	5.84
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.84	5.84
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.97	0.97
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.97	0.97

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emerg ency Generat or	0.58	0.53	1.47	1.34	< 0.005	0.08	0.00	0.08	0.08	0.00	0.08	0.00	269	269	0.01	< 0.005	0.00	270
Total	0.58	0.53	1.47	1.34	< 0.005	0.08	0.00	0.08	0.08	0.00	0.08	0.00	269	269	0.01	< 0.005	0.00	270

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.58	0.53	1.47	1.34	< 0.005	0.08	0.00	0.08	0.08	0.00	0.08	0.00	269	269	0.01	< 0.005	0.00	270
Total	0.58	0.53	1.47	1.34	< 0.005	0.08	0.00	0.08	0.08	0.00	0.08	0.00	269	269	0.01	< 0.005	0.00	270
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.02	0.01	0.04	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	6.34	6.34	< 0.005	< 0.005	0.00	6.36
Total	0.02	0.01	0.04	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	6.34	6.34	< 0.005	< 0.005	0.00	6.36

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	9/16/2026	10/13/2026	5.00	20.0	—
Grading	Grading	10/14/2026	11/9/2027	5.00	280	—
Building Construction	Building Construction	11/10/2027	4/24/2029	5.00	380	—
Paving	Paving	4/25/2029	5/22/2029	5.00	20.0	—
Architectural Coating	Architectural Coating	5/23/2029	6/5/2029	5.00	10.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Graders	Diesel	Average	1.00	8.00	148	0.41
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Average	1.00	8.00	84.0	0.37
Grading	Graders	Diesel	Average	1.00	6.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	6.00	367	0.40
Grading	Tractors/Loaders/Back hoes	Diesel	Average	1.00	7.00	84.0	0.37

Building Construction	Cranes	Diesel	Average	1.00	4.00	367	0.29
Building Construction	Forklifts	Diesel	Average	2.00	6.00	82.0	0.20
Building Construction	Tractors/Loaders/Back hoes	Diesel	Average	2.00	8.00	84.0	0.37
Paving	Cement and Mortar Mixers	Diesel	Average	4.00	6.00	10.0	0.56
Paving	Pavers	Diesel	Average	1.00	7.00	81.0	0.42
Paving	Rollers	Diesel	Average	1.00	7.00	36.0	0.38
Paving	Tractors/Loaders/Back hoes	Diesel	Average	1.00	7.00	84.0	0.37
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	6.00	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	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	12.0	12.0	LDA,LDT1,LDT2
Grading	Vendor	4.00	7.63	HHDT,MHDT
Grading	Hauling	8.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	30.0	12.0	LDA,LDT1,LDT2
Building Construction	Vendor	6.00	7.63	HHDT,MHDT

Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	18.0	12.0	LDA,LDT1,LDT2
Paving	Vendor	2.00	7.63	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	4.00	12.0	LDA,LDT1,LDT2
Architectural Coating	Vendor	2.00	7.63	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	33,743	11,230	314

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	—	—	10.0	0.00	—
Grading	3,783	—	4.50	0.00	—

Paving	0.00	0.00	0.00	0.00	0.12
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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
General Light Industry	0.00	0%
Enclosed Parking with Elevator	0.04	100%
Other Non-Asphalt Surfaces	0.08	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	0.00	589	0.03	< 0.005
2027	0.00	589	0.03	< 0.005
2028	0.00	589	0.03	< 0.005
2029	0.00	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
Total all Land Uses	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	33,743	11,230	314

5.10.3. Landscape Equipment

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)
General Light Industry	466,882	45.1	0.0330	0.0040	0.00
Enclosed Parking with Elevator	5,925	45.1	0.0330	0.0040	0.00
Other Non-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)
General Light Industry	5,189,944	57,655
Enclosed Parking with Elevator	0.00	0.00

Other Non-Asphalt Surfaces	0.00	0.00
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5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Light Industry	27.8	—
Enclosed Parking with Elevator	0.00	—
Other Non-Asphalt Surfaces	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Light Industry	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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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
Emergency Generator	Diesel	1.00	1.00	52.0	320	0.73

5.16.2. Process Boilers

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

Equipment Type	Fuel Type
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5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

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

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	8.07	annual days of extreme heat
Extreme Precipitation	2.40	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.81	annual hectares burned

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

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

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (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	32.1
AQ-PM	50.5
AQ-DPM	84.0
Drinking Water	29.0
Lead Risk Housing	73.4

Pesticides	0.00
Toxic Releases	42.7
Traffic	72.3
Effect Indicators	—
CleanUp Sites	76.7
Groundwater	52.0
Haz Waste Facilities/Generators	93.8
Impaired Water Bodies	90.1
Solid Waste	80.0
Sensitive Population	—
Asthma	61.3
Cardio-vascular	23.2
Low Birth Weights	53.5
Socioeconomic Factor Indicators	—
Education	61.5
Housing	33.7
Linguistic	61.1
Poverty	50.9
Unemployment	67.5

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	42.52534326
Employed	11.51032978
Median HI	39.2403439
Education	—

Bachelor's or higher	43.80854613
High school enrollment	100
Preschool enrollment	32.22122418
Transportation	—
Auto Access	45.25856538
Active commuting	28.37161555
Social	—
2-parent households	18.2599769
Voting	48.76170923
Neighborhood	—
Alcohol availability	42.25587065
Park access	81.35506224
Retail density	48.23559605
Supermarket access	65.99512383
Tree canopy	44.30899525
Housing	—
Homeownership	53.79186449
Housing habitability	70.98678301
Low-inc homeowner severe housing cost burden	52.82946234
Low-inc renter severe housing cost burden	69.36994739
Uncrowded housing	52.91928654
Health Outcomes	—
Insured adults	32.06723983
Arthritis	34.9
Asthma ER Admissions	24.3
High Blood Pressure	25.9
Cancer (excluding skin)	42.8
Asthma	43.1

Coronary Heart Disease	37.1
Chronic Obstructive Pulmonary Disease	42.5
Diagnosed Diabetes	26.4
Life Expectancy at Birth	18.2
Cognitively Disabled	15.2
Physically Disabled	16.0
Heart Attack ER Admissions	64.3
Mental Health Not Good	48.5
Chronic Kidney Disease	14.8
Obesity	46.5
Pedestrian Injuries	90.0
Physical Health Not Good	49.1
Stroke	22.5
Health Risk Behaviors	—
Binge Drinking	50.7
Current Smoker	52.6
No Leisure Time for Physical Activity	41.6
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	71.1
Elderly	29.3
English Speaking	57.3
Foreign-born	43.2
Outdoor Workers	80.7
Climate Change Adaptive Capacity	—
Impervious Surface Cover	33.9
Traffic Density	88.3

Traffic Access	68.1
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	39.1

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	71.0
Healthy Places Index Score for Project Location (b)	34.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Based on applicant provided information.
Land Use	Based on applicant provided information and updated site plan.
Construction: Dust From Material Movement	Based on applicant provided information and compliance with SDAPCD Rule 55.

Construction: Trips and VMT	Based on applicant provided information.
Construction: Architectural Coatings	No-VOC exterior and No-VOC interior paint will be used during construction.
Operations: Architectural Coatings	No-VOC interior and exterior paint will be used.
Operations: Energy Use	The building would be all-electric per the City of San Diego's Zero Emissions Municipal Buildings & Operations Policy (ZEMBOP).
Operations: Emergency Generators and Fire Pumps	Based on SDAPCD permitted maintenance and testing hours per year.
Operations: Vehicle Data	Based on Dudek trip generation.
Operations: Fleet Mix	Separated fleet mix into worker trips and truck trips.

2029 Operation Mobile Source Assumptions Summary

Vehicle Emissions							Emission Factors											
Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	DPM	TOG	
Trucks	HHDT	7.63	50	382	18,250	139,248	Running Exhaust, Tire Wear, and Break Wear (grams/mile)											
	LDA, LDT1, LDT2,and MCY Composite	15.3	28	428	10,220	156,366	0.0144	1.6424	0.0638	0.0141	0.1423	0.0625	1490.8417	0.0007	0.2349	0.0268	0.0164	
Employees							0.0144	0.0378	0.6747	0.0027	0.0169	0.0059	268.4696	0.0032	0.0043	0.0000	0.0195	
Notes:																		
Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)	Paved Road - PM only (grams/mile)											
Trucks	HHDT	7.63	50	382	18,250	139,248	PM10 PM2.5											
	LDA, LDT1, LDT2,and MCY Composite	15.3	28	428	10,220	156,366	1.6800 0.4124											
Employees							0.2998 0.0736											
Project Vehicle	EMFAC Class	Max Daily Trips (trips/day)	Annual Trips (trips/year)	Starting Exhaust, Hot Soak, Running Loss Evaporative, Resting Loss Evap, Diurnal Loss Evap (grams/trip)														
Trucks	HHDT	50	18,250	ROG NOx CO SOx PM10 PM2.5 CO2 CH4 N2O DPM TOG														
	LDA, LDT1, LDT2,and MCY Composite	28	10,220	0.0000 2.9028 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000														
Employees				0.2457 0.2144 2.5364 0.0006 0.0017 0.0016 63.9161 0.0564 0.0284 0.0000 0.2690														
Project Vehicle	EMFAC Class	Idling Minutes per day (min/day)	Idling Minutes per Year (min/year)	Idling (grams/idle-min/vehicle)														
Trucks	HHDT	750	273,750	ROG NOx CO SOx PM10 PM2.5 CO2 CH4 N2O DPM TOG														
				0.0499 0.5556 0.7310 0.0010 0.0003 0.0003 107.5996 0.0023 0.0170 0.0003 0.0568														

2029 Operation Mobile Source Emissions Summary - Annual Emissions

Emissions - Annual										
(Tons/Year)						(Metric Tons/Year)				
ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e	
Running Exhaust, Tire Wear, and Break Wear										
0.00	0.25	0.01	0.00	0.02	0.01	207.60	0.00	0.03	217.34	
0.00	0.01	0.12	0.00	0.00	0.00	41.98	0.00	0.00	42.19	
0.00	0.26	0.13	0.00	0.02	0.01	249.58	0.00	0.03	259.54	
PM10 PM2.5										
Paved Road - PM only										
				0.26	0.06					
				0.05	0.01					
Subtotal				0.31	0.08					
ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e	
Starting Exhaust, Hot Soak, Running Loss Evaporative, Resting Loss Evap, Diurnal Loss Evap										
0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0.00	0.00	0.03	0.00	0.00	0.00	0.65	0.00	0.00	0.75	
Subtotal	0.00	0.06	0.03	0.00	0.00	0.65	0.00	0.00	0.75	
ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e	
Idling										
0.02	0.17	0.22	0.00	0.00	0.00	29.46	0.00	0.00	30.85	
0.02	0.17	0.22	0.00	0.00	0.00	29.46	0.00	0.00	30.85	
Subtotal										
TOTAL	0.02	0.49	0.38	0.00	0.33	0.09	279.68	0.0018	0.038	291.15

Table 5. Operation Mobile Source Emissions Factors - EMFAC2021 Annual ROG

								STEX HOTSOAK RUNLOSS ROG RESTLOSS									
Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	ROG_RUNEX	ROG_IDLEX	ROG_STREX	ROG_HOTSOAK	ROG_RUNLOSS	ROG_DIURN	ROG_RESTLOSS - Calculated	ROG_DIURN - Calculated	DIURN_Combined - Calculated	ROG_IDLEX - Calculated (grams/Idle- min/vehicle)
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	
San Diego	2029	HHDT	Diesel	Aggregate	16018.91072	1941149.09	242143.0681	0.014399035	5.460111052	0	0	0	0				0.049909607
							HHDT	0.0144	5.4601	0.0000	0.0000	0.0000	0.0000	-	-	0.0000	0.0499
San Diego	2029	LDA	Gasoline	Aggregate	1131921.21	46214128.07	5251577.712	0.006822134	0	0.232569073	0.075894359	0.209280211	1.29621251				0
San Diego	2029	LDA	Diesel	Aggregate	3138.761023	94251.37113	13322.6059	0.028083337	0	0	0	0	0				0
San Diego	2029	LDA	Electricity	Aggregate	99214.84931	4857772.09	484308.9726	0	0	0	0	0	0				0
San Diego	2029	LDA	Plug-in Hy	Aggregate	43055.81268	1985991.602	178035.7854	0.001695729	0	0.165829256	0.041232185	0.047889841	0.510165051				
San Diego	2029	LDT1	Gasoline	Aggregate	110049.4691	3842948.942	475235.4461	0.028529049	0	0.463228064	0.176102104	0.515523539	2.976534005				
San Diego	2029	LDT1	Diesel	Aggregate	9.071905132	138.4283213	25.41025054	0.322551656	0	0	0	0	0				
San Diego	2029	LDT1	Electricity	Aggregate	640.2791948	32651.8209	3159.082111	0	0	0	0	0	0				0
San Diego	2029	LDT1	Plug-in Hy	Aggregate	490.0673486	24788.70042	2026.428486	0.001564016	0	0.165829256	0.023260909	0.01973335	0.281038993				0
San Diego	2029	LDT2	Gasoline	Aggregate	561447.6069	23041051	2607110.654	0.010032892	0	0.284830259	0.073495595	0.210509021	1.317982126				0
San Diego	2029	LDT2	Diesel	Aggregate	2168.08014	90063.21715	10164.13276	0.025761875	0	0	0	0	0				0
San Diego	2029	LDT2	Electricity	Aggregate	8269.630948	303515.3785	41420.28342	0	0	0	0	0	0				0
San Diego	2029	LDT2	Plug-in Hy	Aggregate	7638.596998	365897.2156	31585.59859	0.001620505	0	0.165829256	0.02671981	0.024851655	0.321310816				0
San Diego	2029	MCY	Gasoline	Aggregate	68037.33108	411440.8694	136074.6622	1.233144508	0	1.174204868	3.60324197	3.809251547	4.242930066				0
					LDA, LDT1, LDT2, and MCY Composite			0.0144	0.0000	0.2457	0.0917	0.2237	1.2871	0.308423	0.308423	1.1779	0.0000

Table 6. Operation Mobile Source Emissions Factors - EMFAC2021 Annual TOG

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	STEX HOTSOAK RUNLOSS TOG RESTLOSS									TOG_IDLEX - Calculated (grams/Idle- min/vehicle)
								TOG_RUNEX	TOG_IDLEX	TOG_STREX	TOG_HOTSOAK	TOG_RUNLOSS	TOG_DIURN	TOG_RESTLOSS - Calculated	TOG_DIURN - Calculated	DIURN_Combined - Calculated	
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	
San Diego	2029	HHDT	Diesel	Aggregate	16018.91072	1941149.09	242143.0681	0.016392205	6.215920802	0	0	0	0				0.056818289
							HHDT	0.0164	6.2159	0.0000	0.0000	0.0000	0.0000	#REF!	-	#REF!	0.0568
San Diego	2029	LDA	Gasolin	Aggregate	1131921.21	46214128.07	5251577.712	0.009954842	0	0.254633861	0.075894359	0.209280211	1.29621251				0
San Diego	2029	LDA	Diesel	Aggregate	3138.761023	94251.37113	13322.6059	0.031971012	0	0	0	0	0				0
San Diego	2029	LDA	Electric	Aggregate	99214.84931	4857772.09	484308.9726	0	0	0	0	0	0				0
San Diego	2029	LDA	Plug-in	Aggregate	43055.81268	1985991.602	178035.7854	0.002474404	0	0.181562162	0.041232185	0.047889841	0.510165051				
San Diego	2029	LDT1	Gasolin	Aggregate	110049.4691	3842948.942	475235.4461	0.041629521	0	0.507176423	0.176102104	0.515523539	2.976534005				
San Diego	2029	LDT1	Diesel	Aggregate	9.071905132	138.4283213	25.41025054	0.367203615	0	0	0	0	0				
San Diego	2029	LDT1	Electric	Aggregate	640.2791948	32651.8209	3159.082111	0	0	0	0	0	0				0
San Diego	2029	LDT1	Plug-in	Aggregate	490.0673486	24788.70042	2026.428486	0.002282208	0	0.181562162	0.023260909	0.01973335	0.281038993				0
San Diego	2029	LDT2	Gasolin	Aggregate	561447.6069	23041051	2607110.654	0.014639972	0	0.311853282	0.073495595	0.210509021	1.317982126				0
San Diego	2029	LDT2	Diesel	Aggregate	2168.08014	90063.21715	10164.13276	0.029328182	0	0	0	0	0				0
San Diego	2029	LDT2	Electric	Aggregate	8269.630948	303515.3785	41420.28342	0	0	0	0	0	0				0
San Diego	2029	LDT2	Plug-in	Aggregate	7638.596998	365897.2156	31585.59859	0.002364636	0	0.181562162	0.02671981	0.024851655	0.321310816				0
San Diego	2029	MCY	Gasolin	Aggregate	68037.33108	411440.8694	136074.6622	1.504795296	0	1.27711539	3.60324197	3.809251547	4.242930066				0
						LDA, LDT1, LDT2, and MCY Composite		0.0195	0.0000	0.2690	0.0917	0.2237	1.2871	0.308423	0.308423	1.2012	0.0000

Table 7. Operation Mobile Source Emissions Factors - EMFAC2021 Annual NOx

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	NOx_RUNEX (g/mile)	NOx_IDLEX (g/vehicle/day)	NOx_STREX (g/trip)	NOx_IDLEX - Calculated (grams/Idle- min/vehicle)
San Diego	2029	HHDT	Diesel	Aggregate	16018.91072	1941149.09	242143.0681 HHDT	1.642447656 1.6424	60.77983015 60.7798	2.902792058 2.9028	0.555574316 0.5556
San Diego	2029	LDA	Gasoline	Aggregate	1131921.21	46214128.07	5251577.712	0.028299454	0	0.207313383	0
San Diego	2029	LDA	Diesel	Aggregate	3138.761023	94251.37113	13322.6059	0.101811529	0	0	0
San Diego	2029	LDA	Electricity	Aggregate	99214.84931	4857772.09	484308.9726	0	0	0	0
San Diego	2029	LDA	Plug-in Hybrid	Aggregate	43055.81268	1985991.602	178035.7854	0.003257348	0	0.112850708	0
San Diego	2029	LDT1	Gasoline	Aggregate	110049.4691	3842948.942	475235.4461	0.108267368	0	0.348485515	0
San Diego	2029	LDT1	Diesel	Aggregate	9.071905132	138.4283213	25.41025054	1.103557417	0	0	0
San Diego	2029	LDT1	Electricity	Aggregate	640.2791948	32651.8209	3159.082111	0	0	0	0
San Diego	2029	LDT1	Plug-in Hybrid	Aggregate	490.0673486	24788.70042	2026.428486	0.003004339	0	0.112850708	0
San Diego	2029	LDT2	Gasoline	Aggregate	561447.6069	23041051	2607110.654	0.047619124	0	0.262949817	0
San Diego	2029	LDT2	Diesel	Aggregate	2168.08014	90063.21715	10164.13276	0.039928742	0	0	0
San Diego	2029	LDT2	Electricity	Aggregate	8269.630948	303515.3785	41420.28342	0	0	0	0
San Diego	2029	LDT2	Plug-in Hybrid	Aggregate	7638.596998	365897.2156	31585.59859	0.003112849	0	0.112850708	0
San Diego	2029	MCY	Gasoline	Aggregate	68037.33108	411440.8694	136074.6622	0.552413997	0	0.114448139	0
				LDA, LDT1, LDT2, and MCY Composite				0.0378	0.0000	0.2144	0.0000

Table 8. Operation Mobile Source Emissions Factors - EMFAC2021 Annual CO

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CO_RUNEX (g/mile)	CO_IDLEX (g/vehicle/day)	CO_STREX (g/trip)	CO_IDLEX - Calculated (grams/Idle- min/vehicle)
San Diego	2029	HHDT	Diesel	Aggregate	16018.91072	1941149.09	242143.0681 HHDT	0.063825851 0.0638	79.96661342 79.9666	0 0.0000	0.730956247 0.7310
San Diego	2029	LDA	Gasolin	Aggregate	1131921.21	46214128.07	5251577.712	0.596811017	0	2.403970218	0
San Diego	2029	LDA	Diesel	Aggregate	3138.761023	94251.37113	13322.6059	0.506278074	0	0	0
San Diego	2029	LDA	Electric	Aggregate	99214.84931	4857772.09	484308.9726	0	0	0	0
San Diego	2029	LDA	Plug-in	Aggregate	43055.81268	1985991.602	178035.7854	0.222816673	0	1.270662828	0
San Diego	2029	LDT1	Gasolin	Aggregate	110049.4691	3842948.942	475235.4461	1.279539633	0	4.447232253	0
San Diego	2029	LDT1	Diesel	Aggregate	9.071905132	138.4283213	25.41025054	2.134298734	0	0	0
San Diego	2029	LDT1	Electric	Aggregate	640.2791948	32651.8209	3159.082111	0	0	0	0
San Diego	2029	LDT1	Plug-in	Aggregate	490.0673486	24788.70042	2026.428486	0.205791031	0	1.270662828	0
San Diego	2029	LDT2	Gasolin	Aggregate	561447.6069	23041051	2607110.654	0.716642862	0	2.827751198	0
San Diego	2029	LDT2	Diesel	Aggregate	2168.08014	90063.21715	10164.13276	0.270257362	0	0	0
San Diego	2029	LDT2	Electric	Aggregate	8269.630948	303515.3785	41420.28342	0	0	0	0
San Diego	2029	LDT2	Plug-in	Aggregate	7638.596998	365897.2156	31585.59859	0.213069938	0	1.270662828	0
San Diego	2029	MCY	Gasolin	Aggregate	68037.33108	411440.8694	136074.6622	12.68554747	0	7.658093011	0
					LDA, LDT1, LDT2, and MCY Composite			0.6747	0.0000	2.5364	0.0000

Table 9. Operation Mobile Source Emissions Factors - EMFAC2021 Annual SO2

Region	CalYr	VehClass	Fuel	Speed	Population	VTM	Trips	SO2_RUNEX (g/mile)	SO2_IDLEX (g/vehicle/day)	SO2_STREX (g/trip)	SO2_IDLEX - Calculated (grams/Idle- min/vehicle)
San Diego	2029	HHDT	Diesel	Aggregate	16018.91072	1941149.09	242143.0681 HHDT	0.014117379 0.0141	0.111468108 0.1115	0 0.0000	0.001018904 0.0010
San Diego	2029	LDA	Gasolin	Aggregate	1131921.21	46214128.07	5251577.712	0.002659523	0	0.000619626	0
San Diego	2029	LDA	Diesel	Aggregate	3138.761023	94251.37113	13322.6059	0.002299522	0	0	0
San Diego	2029	LDA	Electric	Aggregate	99214.84931	4857772.09	484308.9726	0	0	0	0
San Diego	2029	LDA	Plug-in	Aggregate	43055.81268	1985991.602	178035.7854	0.001352447	0	0.000599139	0
San Diego	2029	LDT1	Gasolin	Aggregate	110049.4691	3842948.942	475235.4461	0.003288222	0	0.000800439	0
San Diego	2029	LDT1	Diesel	Aggregate	9.071905132	138.4283213	25.41025054	0.003936446	0	0	0
San Diego	2029	LDT1	Electric	Aggregate	640.2791948	32651.8209	3159.082111	0	0	0	0
San Diego	2029	LDT1	Plug-in	Aggregate	490.0673486	24788.70042	2026.428486	0.001247916	0	0.000640861	0
San Diego	2029	LDT2	Gasolin	Aggregate	561447.6069	23041051	2607110.654	0.003282062	0	0.000771119	0
San Diego	2029	LDT2	Diesel	Aggregate	2168.08014	90063.21715	10164.13276	0.002938521	0	0	0
San Diego	2029	LDT2	Electric	Aggregate	8269.630948	303515.3785	41420.28342	0	0	0	0
San Diego	2029	LDT2	Plug-in	Aggregate	7638.596998	365897.2156	31585.59859	0.001292704	0	0.000695345	0
San Diego	2029	MCY	Gasolin	Aggregate	68037.33108	411440.8694	136074.6622	0.002005626	0	0.000441195	0
LDA, LDT1, LDT2, and MCY Composite								0.0027	0.0000	0.0006	0.0000

Table 10. Operation Mobile Source Emissions Factors - EMFAC2021 Annual PM10

Region	CalYr	VehClass	Fuel	Speed	Population	VTM	Trips	PM10_RUNEX	PM10_IDLEX	PM10_STREX	PM10_PMTW	PM10_PMBW	PM10_Combined - Calculated
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/mile)	(g/mile)	(g/mile)
San Diego	2029	HHDT	Diesel	Aggregate	16018.91072	1941149.09	242143.0681 HHDT	0.026767211 0.0268	0.029208939 0.0292	0 0.0000	0.035349483 0.0353	0.080197196 0.0802	0.142313
San Diego	2029	LDA	Gasolin	Aggregate	1131921.21	46214128.07	5251577.712	0.001323548	0	0.001767023	0.008000063	0.007410921	
San Diego	2029	LDA	Diesel	Aggregate	3138.761023	94251.37113	13322.6059	0.008973576	0	0	0.008000063	0.007645864	
San Diego	2029	LDA	Electric	Aggregate	99214.84931	4857772.09	484308.9726	0	0	0	0.008000002	0.004380489	
San Diego	2029	LDA	Plug-in	Aggregate	43055.81268	1985991.602	178035.7854	0.000589845	0	0.001709512	0.008000002	0.003929999	
San Diego	2029	LDT1	Gasolin	Aggregate	110049.4691	3842948.942	475235.4461	0.002029478	0	0.002559345	0.008000063	0.009343967	
San Diego	2029	LDT1	Diesel	Aggregate	9.071905132	138.4283213	25.41025054	0.207229238	0	0	0.008000063	0.010292416	
San Diego	2029	LDT1	Electric	Aggregate	640.2791948	32651.8209	3159.082111	0	0	0	0.008000002	0.004372364	
San Diego	2029	LDT1	Plug-in	Aggregate	490.0673486	24788.70042	2026.428486	0.000357984	0	0.001119763	0.008000002	0.003954462	
San Diego	2029	LDT2	Gasolin	Aggregate	561447.6069	23041051	2607110.654	0.00139321	0	0.001784302	0.008000063	0.008947213	
San Diego	2029	LDT2	Diesel	Aggregate	2168.08014	90063.21715	10164.13276	0.004747468	0	0	0.008000063	0.008970797	
San Diego	2029	LDT2	Electric	Aggregate	8269.630948	303515.3785	41420.28342	0	0	0	0.008000002	0.004370354	
San Diego	2029	LDT2	Plug-in	Aggregate	7638.596998	365897.2156	31585.59859	0.000451088	0	0.001356698	0.008000002	0.003945212	
San Diego	2029	MCY	Gasolin	Aggregate	68037.33108	411440.8694	136074.6622	0.002502483	0	0.003316246	0.004000031	0.012000003	
					LDA, LDT1, LDT2, and MCY Composite			0.0013	0.0000	0.0017	0.0080	0.0077	0.016937

Table 11. Operation Mobile Source Emissions Factors - EMFAC2021 Annual PM2.5

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	PM2.5_RUNEX	PM2.5_IDLEX	PM2.5_STREX	PM2.5_PMTW	PM2.5_PMBW	PM2.5_Combined - Calculated	PM2.5_IDLEX - Calculated (grams/Idle- min/vehicle)
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/mile)	(g/mile)	(g/mile)	
San Diego	2029	HHDT	Diesel	Aggregate	16018.91072	1941149.09	242143.0681 HHDT	0.025609273 0.0256	0.027945373 0.0279	0 0.0000	0.008837371 0.0088	0.028069018 0.0281	0.062515	0 0.0003
San Diego	2029	LDA	Gasolin	Aggregate	1131921.21	46214128.07	5251577.712	0.001216953	0	0.001624712	0.002000016	0.002593822		0
San Diego	2029	LDA	Diesel	Aggregate	3138.761023	94251.37113	13322.6059	0.008585383	0	0	0.002000016	0.002676053		0
San Diego	2029	LDA	Electric	Aggregate	99214.84931	4857772.09	484308.9726	0	0	0	0.002000001	0.001533171		0
San Diego	2029	LDA	Plug-in	Aggregate	43055.81268	1985991.602	178035.7854	0.000542341	0	0.001571834	0.002000001	0.001375499		0
San Diego	2029	LDT1	Gasolin	Aggregate	110049.4691	3842948.942	475235.4461	0.001866603	0	0.002353224	0.002000016	0.003270388		0
San Diego	2029	LDT1	Diesel	Aggregate	9.071905132	138.4283213	25.41025054	0.198264593	0	0	0.002000016	0.003602346		0
San Diego	2029	LDT1	Electric	Aggregate	640.2791948	32651.8209	3159.082111	0	0	0	0.002000001	0.001530327		0
San Diego	2029	LDT1	Plug-in	Aggregate	490.0673486	24788.70042	2026.428486	0.000329153	0	0.00102958	0.002000001	0.001384062		0
San Diego	2029	LDT2	Gasolin	Aggregate	561447.6069	23041051	2607110.654	0.001281005	0	0.0016406	0.002000016	0.003131525		0
San Diego	2029	LDT2	Diesel	Aggregate	2168.08014	90063.21715	10164.13276	0.004542095	0	0	0.002000016	0.003139779		0
San Diego	2029	LDT2	Electric	Aggregate	8269.630948	303515.3785	41420.28342	0	0	0	0.002000001	0.001529624		0
San Diego	2029	LDT2	Plug-in	Aggregate	7638.596998	365897.2156	31585.59859	0.000414759	0	0.001247434	0.002000001	0.001380824		0
San Diego	2029	MCY	Gasolin	Aggregate	68037.33108	411440.8694	136074.6622	0.00233674	0	0.003107977	0.001000008	0.004200001		0
					LDA, LDT1, LDT2, and MCY Composite			0.0012	0.0000	0.0016	0.0020	0.0027	0.005865	0.0000

Table 12. Operation Mobile Source Emissions Factors - EMFAC2021 Annual CO2

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CO2_RUNEX (g/mile)	CO2_IDLEX (g/vehicle/day)	CO2_STREX (g/trip)	CO2_IDLEX - Calculated (grams/Idle- min/vehicle)
San Diego	2029	HHDT	Diesel	Aggregate	16018.91072	1941149.09	242143.0681	1490.841664	11771.3989	0	107.5996244
							HHDT	1490.8417	11771.3989	0.0000	107.5996
San Diego	2029	LDA	Gasolin	Aggregate	1131921.21	46214128.07	5251577.712	269.0186695	0	62.67699395	0
San Diego	2029	LDA	Diesel	Aggregate	3138.761023	94251.37113	13322.6059	242.6805978	0	0	0
San Diego	2029	LDA	Electric	Aggregate	99214.84931	4857772.09	484308.9726	0	0	0	0
San Diego	2029	LDA	Plug-in	Aggregate	43055.81268	1985991.602	178035.7854	136.8039754	0	60.60471658	0
San Diego	2029	LDT1	Gasolin	Aggregate	110049.4691	3842948.942	475235.4461	332.6133654	0	80.96681488	0
San Diego	2029	LDT1	Diesel	Aggregate	9.071905132	138.4283213	25.41025054	415.4337981	0	0	0
San Diego	2029	LDT1	Electric	Aggregate	640.2791948	32651.8209	3159.082111	0	0	0	0
San Diego	2029	LDT1	Plug-in	Aggregate	490.0673486	24788.70042	2026.428486	126.2304354	0	64.82499372	0
San Diego	2029	LDT2	Gasolin	Aggregate	561447.6069	23041051	2607110.654	331.990261	0	78.00099048	0
San Diego	2029	LDT2	Diesel	Aggregate	2168.08014	90063.21715	10164.13276	310.1175079	0	0	0
San Diego	2029	LDT2	Electric	Aggregate	8269.630948	303515.3785	41420.28342	0	0	0	0
San Diego	2029	LDT2	Plug-in	Aggregate	7638.596998	365897.2156	31585.59859	130.7608856	0	70.33615805	0
San Diego	2029	MCY	Gasolin	Aggregate	68037.33108	411440.8694	136074.6622	202.8749718	0	44.62816153	0
						LDA, LDT1, LDT2, and MCY Composite		268.4696	0.0000	63.9161	0.0000

Table 14. Operation Mobile Source Emissions Factors - EMFAC2021 Annual N2O

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	N2O_RUNEX (g/mile)	N2O_IDLEX (g/vehicle/day)	N2O_STREX (g/trip)	N2O_IDLEX - Calculated (grams/Idle- min/vehicle)
San Diego	2029	HHDT	Diesel	Aggregate	16018.91072	1941149.09	242143.0681 HHDT	0.234882711 0.2349	1.854588691 1.8546	0 0.0000	0.016952365 0.0170
San Diego	2029	LDA	Gasolin	Aggregate	1131921.21	46214128.07	5251577.712	0.003851819	0	0.029155405	0
San Diego	2029	LDA	Diesel	Aggregate	3138.761023	94251.37113	13322.6059	0.038234427	0	0	0
San Diego	2029	LDA	Electric	Aggregate	99214.84931	4857772.09	484308.9726	0	0	0	0
San Diego	2029	LDA	Plug-in	Aggregate	43055.81268	1985991.602	178035.7854	0.000578297	0	0.020002913	0
San Diego	2029	LDT1	Gasolin	Aggregate	110049.4691	3842948.942	475235.4461	0.008463527	0	0.036647734	0
San Diego	2029	LDT1	Diesel	Aggregate	9.071905132	138.4283213	25.41025054	0.065451764	0	0	0
San Diego	2029	LDT1	Electric	Aggregate	640.2791948	32651.8209	3159.082111	0	0	0	0
San Diego	2029	LDT1	Plug-in	Aggregate	490.0673486	24788.70042	2026.428486	0.000534513	0	0.020065037	0
San Diego	2029	LDT2	Gasolin	Aggregate	561447.6069	23041051	2607110.654	0.004912026	0	0.033231861	0
San Diego	2029	LDT2	Diesel	Aggregate	2168.08014	90063.21715	10164.13276	0.04885914	0	0	0
San Diego	2029	LDT2	Electric	Aggregate	8269.630948	303515.3785	41420.28342	0	0	0	0
San Diego	2029	LDT2	Plug-in	Aggregate	7638.596998	365897.2156	31585.59859	0.00055139	0	0.019979158	0
San Diego	2029	MCY	Gasolin	Aggregate	68037.33108	411440.8694	136074.6622	0.039071517	0	0.006910937	0
					LDA, LDT1, LDT2, and MCY Composite			0.0043	0.0000	0.0284	0.0000

Table 13. Operation Mobile Source Emissions Factors - EMFAC2021 Annual CH4

Region	CalYr	VehClass	Fuel	Speed	Population	VTM	Trips	CH4_RUNEX (g/mile)	CH4_IDLEX (g/vehicle/day)	CH4_STREX (g/trip)	CH4_IDLEX - Calculated (grams/Idle- min/vehicle)
San Diego	2029	HHDT	Diesel	Aggregate	16018.91072	1941149.09	242143.0681 HHDT	0.000668798 0.0007	0.253608017 0.2536	0 0.0000	0.002318172 0.0023
San Diego	2029	LDA	Gasolin	Aggregate	1131921.21	46214128.07	5251577.712	0.001972662	0	0.053252127	0
San Diego	2029	LDA	Diesel	Aggregate	3138.761023	94251.37113	13322.6059	0.001304417	0	0	0
San Diego	2029	LDA	Electric	Aggregate	99214.84931	4857772.09	484308.9726	0	0	0	0
San Diego	2029	LDA	Plug-in	Aggregate	43055.81268	1985991.602	178035.7854	0.000531092	0	0.040392151	0
San Diego	2029	LDT1	Gasolin	Aggregate	110049.4691	3842948.942	475235.4461	0.006527732	0	0.091295195	0
San Diego	2029	LDT1	Diesel	Aggregate	9.071905132	138.4283213	25.41025054	0.014981908	0	0	0
San Diego	2029	LDT1	Electric	Aggregate	640.2791948	32651.8209	3159.082111	0	0	0	0
San Diego	2029	LDT1	Plug-in	Aggregate	490.0673486	24788.70042	2026.428486	0.000490378	0	0.040456945	0
San Diego	2029	LDT2	Gasolin	Aggregate	561447.6069	23041051	2607110.654	0.002734715	0	0.064464345	0
San Diego	2029	LDT2	Diesel	Aggregate	2168.08014	90063.21715	10164.13276	0.00119659	0	0	0
San Diego	2029	LDT2	Electric	Aggregate	8269.630948	303515.3785	41420.28342	0	0	0	0
San Diego	2029	LDT2	Plug-in	Aggregate	7638.596998	365897.2156	31585.59859	0.000506937	0	0.040367392	0
San Diego	2029	MCY	Gasolin	Aggregate	68037.33108	411440.8694	136074.6622	0.19095211	0	0.158267754	0
					LDA, LDT1, LDT2, and MCY Composite			0.0032	0.0000	0.0564	0.0000

Table 14. Paved Road Fugitive Emissions - Operation Mobile Sources

Equation:

$$E = k \times (sL/2)^{0.91} \times (W)1.02 \text{ [maximum day]}$$

Where:

		Units
k	particle size multiplier (PM ₁₀)	0.00220 lb/VMT
k	particle size multiplier (PM _{2.5})	0.00054 lb/VMT
sL	silt loading (2) average weight (tons) of the vehicle traveling the road	0.1 g/m ²
W	road	2.4 tons

Notes/References:

k = Emission factors from CalEEMod2016.3.1 per AP-42, Section 13.2.1 (Paved Roads).

sL = Silt loading from CalEEMod2016.3.2

For daily emissions it is assumed to have no precipitation.

Truck Weight Assumptions

EMFAC Definition	EMFAC Category	GVWR (pounds)	GVWR (tons)	
Heavy Heavy-Duty Truck	HHDT	>33,000	17	<i>Assumed 33,000 pounds</i>
Medium Heavy-Duty Truck	MHDT	14,001-33,000	8	<i>Assumed average of 14,001 & 33,000 pounds</i>
Composite Heavy & Medium Heavy-Duty Truck	HHDT & MHDT	14,001-33,000+	13	<i>Assumed average of HHDT & MHDT pounds</i>

Source: EMFAC 2014

GVWR = Gross Vehicle Weight Rating

1 pound = 0.0005 US tons

Employee Vehicles Evaluated:

Employee Type	Average Weight (tons)
Passenger Vehicles	2.4

Reference:

Source: CalEEMod2016.3.2 (average vehicle weight = 2.4 tons)

Per AP-42, Section 13.2.1 (Paved Roads): The above equation calls for the average weight of all vehicles traveling the road. For example, if 99 percent of traffic on the road are 2 ton cars/trucks while the remaining 1 percent consists of 20 ton trucks, then the mean weight "W" is 2.2 tons. More specifically, the above equation is not intended to be used to calculate a separate emission factor for each vehicle weight class. Instead, only one emission factor should be calculated to represent the "fleet" average weight of all vehicles traveling the road.

Emission Factors	PM10 Paved Road (lb/VMT)	PM2.5 Paved Road (lb/VMT)	PM10 Paved Road (g/VMT)	PM2.5 Paved Road (g/VMT)
HHDT	0.0049	0.0012	2.2087	0.5421
MHDT	0.0023	0.0006	1.0239	0.2513
HHDT & MHDT	0.0037	0.0009	1.6800	0.4124
Passenger Vehicles	0.0007	0.0002	0.2998	0.0736
Average	0.0022	0.0005	0.9899	0.2430

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: County
Region: San Diego
Calendar Year: 2029
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and CVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/hrp for STREX, HOTOAK and RUNLOSS, g/vehicle/day for IDLEX and DURN, PHEV calculated based on total VMT.

Region	Calendar	Vehicle Ca	Model Year	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	NOx_RUNEX	NOx_IDLEX	NOx_STREX	PM2.5_RUNEX	PM2.5_IDLEX	PM2.5_STREX	PM2.5_PMTW	PM2.5_PMBW	PM10_RUNEX	PM10_IDLEX	PM10_STREX	PM10_PMTW	PM10_PMBW	CO2_RUNEX	CO2_IDLEX	CO2_STREX	CH4_RUNEX	CH4_IDLEX	CH4_STREX	
San Diego	2029	HHOT	Aggregate	Aggregate	Gasoline	4,148,668.33	484,064,1505	484,064,1505	0	83,0105576	3,8555,19996	0	0.049172304	0.001560134	0	0.000683968	0.005000001	0.003086386	0.001696789	0	0.000753775	0.020000006	0.093389674	2027,18531	0	53,26790019	0.107535625	0	0.000185992	
San Diego	2029	HHOT	Aggregate	Aggregate	Diesel	18018,51072	1941,498,09	1941,498,09	0	24,141,0861	1,6424,7656	60,7798301	2,902,7929268	0.023667973	0.027945373	0	0.008887371	0.020806018	0.026767211	0.029208939	0	0.035349483	0.080197396	1490,841664	11771,3989	0	0.000648798	0.253360807	0	
San Diego	2029	HHOT	Aggregate	Aggregate	Electricity	626,223,3222	7121,4973	0	71,121,4973	8110,39716	0	0	0	0	0.008445328	0.015625968	0	0	0	0	0	0.03457815	0.044645622	0	0	0	0	0	0	
San Diego	2029	HHOT	Aggregate	Aggregate	Natural Gas	1308,934945	81794,57677	81794,57677	0	8004,497776	0.998844861	0	6,034122594	0	0.0019191094	0.001745816	0	0.009000003	0.063214076	0.002165496	0.012774646	0	0.03000001	0.180611646	1400,710345	7658,059257	0	1,489504129	0	15,2387876
San Diego	2029	LDA	Aggregate	Aggregate	Gasoline	1131521,21	46214128,07	46214128,07	0	52,537,577,12	0.028299404	0.020713383	0.001624712	0.002000016	0.002079822	0.001235468	0	0.002000016	0.002079822	0.001235468	0	0.001767023	0.008000063	0.007410921	269,8186695	0	62,67099395	0.001973462	0	0.033252127
San Diego	2029	LDA	Aggregate	Aggregate	Diesel	3138,761023	96531,1713	96531,1713	0	1332,4609	0.103815129	0	0	0	0.000846383	0	0	0.002000016	0.002079822	0.001235468	0	0	0.008000063	0.007410921	269,8186695	0	62,67099395	0.001973462	0	0.033252127
San Diego	2029	LDA	Aggregate	Aggregate	Electricity	99214,84931	4857772,09	0	4857772,09	484308,9726	0	0	0	0	0	0	0	0.002000001	0.00133171	0	0	0	0.008000002	0.004380489	0	60	0	0	0	0
San Diego	2029	LDA	Aggregate	Aggregate	Plug-in Hybrid	42055,82368	1989591,462	893586,451	1092392,947	178038,7954	0.003253748	0	0.112850708	0.000542341	0	0.001573884	0.002000001	0.001574599	0.000589845	0	0.001709512	0.008000002	0.003939999	136,8039734	0	60,6471658	0.000513092	0	0.040392311	
San Diego	2029	LDT1	Aggregate	Aggregate	Gasoline	130045,4691	3842948,942	3842948,942	0	47,523,4461	0.108267368	0	0.344848555	0.00186603	0	0.002035324	0.002000016	0.002037486	0.002029478	0	0.0020559345	0.008000063	0.00943967	332,6133654	0	80,9661488	0.006527732	0	0.091295195	
San Diego	2029	LDT1	Aggregate	Aggregate	Diesel	9,071990132	138,4283213	138,4283213	0	25,41022054	0.130557417	0	0	0.018264593	0	0	0.002000001	0.001503217	0	0	0	0.008000002	0.010292416	415,4337851	0	0	0.014981308	0	0	
San Diego	2029	LDT1	Aggregate	Aggregate	Electricity	640,2791948	32651,8209	0	32651,8209	3159,082111	0	0	0	0	0	0	0.002000001	0.001503217	0	0	0	0.008000002	0.00472384	0	0	0	0	0	0	
San Diego	2029	LDT1	Aggregate	Aggregate	Plug-in Hybrid	490,0673466	24788,70042	10287,35011	14501,35011	2026,248466	0.003004939	0	0.112850708	0.000329153	0	0.001025958	0.002000001	0.001340462	0.000357984	0	0.001119763	0.008000002	0.003954462	126,2304354	0	64,82499372	0.000490378	0	0.040456945	
San Diego	2029	LDT2	Aggregate	Aggregate	Gasoline	561447,4589	23041051	23041051	0	2607,11054	0.047861224	0	0.262949817	0.001821005	0	0.0004606	0.002000016	0.003131525	0.00139321	0	0.001784302	0.008000063	0.008947213	331,990281	0	78,00099048	0.000734715	0	0.064464365	
San Diego	2029	LDT2	Aggregate	Aggregate	Diesel	2168,08014	90063,2175	90063,2175	0	10,164,12376	0.009928742	0	0	0.004420995	0	0	0.002000016	0.00139779	0.004747468	0	0	0.008000063	0.008970797	310,1735079	0	0.00179559	0	0	0	
San Diego	2029	LDT2	Aggregate	Aggregate	Electricity	8269,630448	303515,3785	0	303515,3785	41420,28342	0	0	0	0	0	0	0.002000001	0.00129624	0	0	0	0.008000002	0.004370534	0	0	0	0	0	0	
San Diego	2029	LDT2	Aggregate	Aggregate	Plug-in Hybrid	7638,596989	365897,2166	157332,3306	208564,885	31585,59859	0.003112849	0	0.112850708	0.000447459	0	0.001247434	0.002000001	0.001380824	0.000451088	0	0.001356698	0.008000002	0.003945212	130,7608556	0	70,33615805	0.000506937	0	0.040367392	
San Diego	2029	LHDT1	Aggregate	Aggregate	Gasoline	29542,58294	1240465,98	1240465,98	0	586260,749	0.107977097	0.022189201	0.540841815	0.014021004	0	0.000232797	0.002000001	0.027730008	0.001210003	0	0.000252388	0.008000002	0.078000022	815,2308828	114,9904779	25,23216362	0.005250108	0.104352342	0.030705444	
San Diego	2029	LHDT1	Aggregate	Aggregate	Diesel	29411,38117	118391,178	118391,178	0	369965,7228	1.197836698	1,710949109	0	0.031413108	0.026174848	0	0.003000001	0.027730008	0.032833469	0.027358358	0	0.011200003	0.078000022	618,1834987	127,5748808	0	0.007073224	0.005088128	0	0
San Diego	2029	LHDT1	Aggregate	Aggregate	Electricity	2942,510253	195434,5526	0	195434,5526	4128,16348	0	0	0	0	0	0	0.002000001	0.013650004	0	0	0	0.008000002	0.039000011	0	0	0	0	0	0	
San Diego	2029	LHDT2	Aggregate	Aggregate	Gasoline	5670,460684	223393,0742	223393,0742	0	84481,41521	0.090493568	0.031715219	0.547593259	0.001198498	0	0.00146554	0.002000001	0.031850009	0.00320965	0	0.00178967	0.008000002	0.091000026	927,4818504	133,6974014	0.00325887	0.102755842	0.02708721	0	
San Diego	2029	LHDT2	Aggregate	Aggregate	Diesel	12515,67216	517411,9231	517411,9231	0	125602,1154	0.028831144	0.026632119	0	0	0	0	0.003000001	0.031850009	0.030136851	0.027836305	0	0.011200003	0.091000026	732,0358691	202,8476023	0	0.006574552	0.005088128	0	0
San Diego	2029	LHDT2	Aggregate	Aggregate	Electricity	768,087999	48563,61419	0	48563,61419	10387,14065	0	0	0	0	0	0	0.002000001	0.015926005	0	0	0	0.008000002	0.045500013	0	0	0	0	0	0	
San Diego	2029	MCV	Aggregate	Aggregate	Gasoline	48037,33108	411440,8694	411440,8694	0	136074,4622	0.052413997	0	0.114448139	0.002336974	0	0.003107977	0.001200008	0.004200001	0.002502483	0	0.003163446	0.004000011	0.012000003	202,8789718	44,62816153	0.19095211	0	0.183267754	0	
San Diego	2029	MDV	Aggregate	Aggregate	Gasoline	327730,7441	13296403,95	13296403,95	0	25360,796	0.057277827	0	0.308381958	0.00123935	0	0.001641069	0.002000016	0.00317339	0.001347688	0	0.001784812	0.008000063	0.009668829	402,51624	0	95,6656721	0.000734715	0	0.074097663	
San Diego	2029	MDV	Aggregate	Aggregate	Diesel	5184,795144	199975,7955	199975,7955	0	19395,9286	0.058534804	0	0	0.004945675	0	0	0.002000016	0.003280417	0.005180857	0	0	0.008000063	0.009372619	417,3962741	0	0	0.0009122753	0	0	
San Diego	2029	MDV	Aggregate	Aggregate	Electricity	8417,456563	308133,8349	0	308133,8349	42195,13858	0	0	0	0	0	0	0.002000001	0.001330451	0	0	0	0.008000002	0.004727718	0	0	0	0	0	0	
San Diego	2029	MDV	Aggregate	Aggregate	Plug-in Hybrid	4790,221636	234881,7408	101123,5854	133338,1554	19807,56446	0.003122009	0	0.112850708	0.000448556	0	0.001339772	0.002000001	0.001381044	0.000488172	0	0.001478881	0.008000002	0.003945841	131,1303264	0	86,20722098	0.000509957	0	0.040482032	
San Diego	2029	MH	Aggregate	Aggregate	Gasoline	7623,817072	72743,00162	72743,00162	0	762,6866599	0.271824434	0	0.47734346	0.001314531	0	0.000315368	0.003000001	0.015766634	0.001473178	0	0.000342991	0.012000003	0.04047926	1948,367673	0	30,7208106	0.008882317	0	0.035265764	
San Diego	2029	MH	Aggregate	Aggregate	Diesel	3879,332756	36524,04093	36524,04093	0	387,9312756	4,12074292	0	0	0.094453217	0	0	0.004000016	0.015684622	0.008733972	0	0	0.016000005	0.044841778	1083,372727	0	0.005076036	0	0	0	
San Diego	2029	MHDT	Aggregate	Aggregate	Gasoline	3190,933514	190417,973	190417,973	0	63844,19775	0.222743248	0.078373916	0.361813136	0.001306187	0	0.000456419	0.003000001	0.015766634	0.001420598	0	0.000496398	0.012000003	0.04047926	1695,51599	518,2377561	42,81093109	0.00707602	0.208430109	0.042033908	
San Diego	2029	MHDT	Aggregate	Aggregate	Diesel	18931,52691	745328,6774	745328,6774	0	214331,1116	0.816523284	10,76523798	1,568969817	0.007007375	0.010887735	0	0.003000001	0.015766634	0.007320413	0.011327769	0	0.012000003	0.045465898	1115,12413	2194,323245	0	0.000746024	0.009355059	0	0
San Diego	2029	MHDT	Aggregate	Aggregate	Electricity	1223,576153	67960,91765	0	67960,91765	15716,17955	0	0	0	0	0	0	0.003000001	0.007961629	0	0	0	0.012000003	0.025274654	0	0	0	0	0	0	
San Diego	2029	MHDT	Aggregate	Aggregate	Natural Gas	345,6479266	13943,47351	13943,47351	0	4084,943204	0.08859642	5,519566727	0	0.001361094	0.01696393	0	0.003000001	0.015952066	0.001403414	0.018448822	0	0.012000003	0.045001445	962,0941586	4641,065455	0	0.722024052	14,13347298	0	
San Diego	2029	OBUS	Aggregate	Aggregate	Gasoline	959,5975943	44284,85094	44284,85094	0	19199,62867	0.455794556	0.059645513	0.398522581	0.001118281	0	0.000315179	0.003000001	0.015710307	0.001263212	0	0.000342786	0.012000003	0.04486659	1694,276148	371,4059424	31,16413146	0.012280976	0.194043628	0.036195509	
San Diego	2029	OBUS	Aggregate	Aggregate	Diesel	679,0200217	49110,54974	49110,54974	0	8827,099174	1,379454333	13,49395156	1,53897956	0.014504123	0.01430835	0	0.003000001	0.02126771	0.03612											

2029 Operation Mobile Source Assumptions Summary

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT	7.63	50	382	18,250	139,248
Employees	LDA, LDT1, LDT2, and MCY Compi	15.3	28	428	10,220	156,366

Notes:

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT	7.63	50	382	18,250	139,248
Employees	LDA, LDT1, LDT2, and MCY Compi	15.3	28	428	10,220	156,366

Project Vehicle	EMFAC Class	Max Daily Trips (trips/day)	Annual Trips (trips/year)
Trucks	HHDT	50	18,250
Employees	LDA, LDT1, LDT2, and MCY Compi	28	10,220

Project Vehicle	EMFAC Class	Idling Minutes per Day (min/day)	Idling Minutes per Year (min/year)
Trucks	HHDT	750	273,750

2029 Operation Mobile Source Emissions Summary - Summer Daily Emissions

Emissions - Daily (Pounds/Day)

ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
Running Exhaust, Tire Wear, and Break Wear									
0.01	1.33	0.05	0.01	0.12	0.05	1,253.89	0.00	0.20	1,312.78
0.01	0.03	0.77	0.00	0.02	0.01	266.86	0.00	0.00	268.04

Subtotal 0.03 1.36 0.82 0.01 0.14 0.06 1,520.75 0.00 0.20 1,580.81

PM10	PM2.5
Paved Road - PM only	
1.41	0.35
0.28	0.07
Subtotal	1.70 0.42

ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
Starting Exhaust, Hot Soak, Running Loss Evaporative, Resting Loss Evap, Diurnal Loss Evap									
0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.01	0.01	0.13	0.00	0.00	0.00	0.00	3.90	0.00	4.47
Subtotal	0.01	0.33	0.13	0.00	0.00	0.00	3.90	0.00	4.47

ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
Idling									
0.09	0.88	1.19	0.00	0.00	0.00	175.81	0.00	0.03	184.17
Subtotal	0.09	0.88	1.19	0.00	0.00	175.81	0.00	0.03	184.17

TOTAL 0.13 2.57 2.14 0.02 1.83 0.47 1,700.46 0.01 0.23 1,769.45

2029 Operation Mobile Source Assumptions Summary

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT	7.63	50	382	18,250	139,248
Employees	LDA, LDT1, LDT2, and MCY Compi	15.3	28	428	10,220	156,366

Notes:

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT	7.63	50	382	18,250	139,248
Employees	LDA, LDT1, LDT2, and MCY Compi	15.3	28	428	10,220	156,366

Project Vehicle	EMFAC Class	Max Daily Trips (trips/day)	Annual Trips (trips/year)
Trucks	HHDT	50	18,250
Employees	LDA, LDT1, LDT2, and MCY Compi	28	10,220

Project Vehicle	EMFAC Class	Idling Minutes per Day (min/day)	Minutes per Year (min/year)
Trucks	HHDT	750	273,750

2029 Operation Mobile Source Emissions Factors - EMFAC2021 Summer

Emission Factors: Summary

Project Vehicle	Vehicle Classes	Fuel	Speed	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O
				Running Exhaust, Tire Wear, and Break Wear (grams/mile)								
Trucks	HHDT	Diesel	Aggregate	0.014	1.584	0.064	0.014	0.142	0.063	1,490.842	0.001	0.235
Employees	LDA, LDT1, LDT2, and MCY Composite	Gas, Electric, & Diesel (Aggregate)	Aggregate	0.015	0.033	0.812	0.003	0.017	0.006	282.552	0.003	0.004
Project Vehicle	Vehicle Classes			PM10		PM2.5						
				Paved Road - PM Only (grams/mile)								
Trucks	HHDT			1.680		0.412						
Employees	LDA, LDT1, LDT2, and MCY Composite			0.300		0.074						
Project Vehicle	Vehicle Classes	Fuel		ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O
				Starting Exhaust, Hot Soak, Running Loss Evaporative, Resting Loss Evap, Diurnal Loss Evap (grams/trip)								
Trucks	HHDT	Diesel		0.000	2.903	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Employees	LDA, LDT1, LDT2, and MCY Composite	Gas, Electric, & Diesel (Aggregate)		0.214	0.195	2.099	0.001	0.002	0.002	63.112	0.050	0.027
Project Vehicle	Vehicle Classes	Fuel		ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O
				Idling (grams/Idle-min/vehicle)								
Trucks	HHDT	Diesel		0.053	0.530	0.721	0.001	0.000	0.000	106.331	0.002	0.017
Employees	LDA, LDT1, LDT2, and MCY Composite	Gas, Electric, & Diesel (Aggregate)		0	0	0	0	0	0	0	0	0

Project Vehicle	Vehicle Classes	PM10	PM2.5
		Paved Road - PM Only (grams/mile)	
Trucks	HHDT	1.680	0.412
Employees	LDA, LDT1, LDT2, and MCY Composite	0.300	0.074

Project Vehicle	Vehicle Classes	Fuel	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O
			Starting Exhaust, Hot Soak, Running Loss Evaporative, Resting Loss Evap, Diurnal Loss Evap (grams/trip)								
Trucks	HHDT	Diesel	0.000	2.903	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Employees	LDA, LDT1, LDT2, and MCY Composite	Gas, Electric, & Diesel (Aggregate)	0.214	0.195	2.099	0.001	0.002	0.002	63.112	0.050	0.027

[illegible]

Table 5. Operation Mobile Source Emissions Factors - EMFAC2021 Summer ROG

								STEX HOTSOAK RUNLOSS ROG RESTLOSS								
Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	ROG_RUNEX	ROG_IDLEX	ROG_STREX	ROG_HOTSOAK	ROG_RUNLOSS	ROG_DIURN	ROG_RESTLOSS - Calculated	ROG_DIURN - Calculated	DIURN_Combined - Calculated
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)
San Diego	2029	HHDT	Diesel	Aggregate	16018.91072	1941149.09	242143.0681	0.014399035	5.778515158	0	0	0	0			
				HHDT				0.0144	5.7785	0.0000	0.0000	0.0000	0.0000	-	-	0.0000
San Diego	2029	LDA	Gasolin	Aggregate	1131921.21	46214128.07	5251577.712	0.007037618	0	0.202962947	0.079366108	0.210921948	1.498438821			
San Diego	2029	LDA	Diesel	Aggregate	3138.761023	94251.37113	13322.6059	0.028083337	0	0	0	0	0			
San Diego	2029	LDA	Electric	Aggregate	99214.84931	4857772.09	484308.9726	0	0	0	0	0	0			
San Diego	2029	LDA	Plug-in	Aggregate	43055.81268	1985991.602	178035.7854	0.001749653	0	0.141530385	0.043172384	0.048527891	0.613362912			
San Diego	2029	LDT1	Gasolin	Aggregate	110049.4691	3842948.942	475235.4461	0.029425151	0	0.40244434	0.185166581	0.518547708	3.468566529			
San Diego	2029	LDT1	Diesel	Aggregate	9.071905132	138.4283213	25.41025054	0.322551656	0	0	0	0	0			
San Diego	2029	LDT1	Electric	Aggregate	640.2791948	32651.8209	3159.082111	0	0	0	0	0	0			
San Diego	2029	LDT1	Plug-in	Aggregate	490.0673486	24788.70042	2026.428486	0.001613751	0	0.141530385	0.024460747	0.020164583	0.338409349			
San Diego	2029	LDT2	Gasolin	Aggregate	561447.6069	23041051	2607110.654	0.010349453	0	0.248424035	0.076733783	0.212102792	1.505508093			
San Diego	2029	LDT2	Diesel	Aggregate	2168.08014	90063.21715	10164.13276	0.025761875	0	0	0	0	0			
San Diego	2029	LDT2	Electric	Aggregate	8269.630948	303515.3785	41420.28342	0	0	0	0	0	0			
San Diego	2029	LDT2	Plug-in	Aggregate	7638.596998	365897.2156	31585.59859	0.001672036	0	0.141530385	0.028073837	0.025333737	0.389711816			
San Diego	2029	MCY	Gasolin	Aggregate	68037.33108	411440.8694	136074.6622	1.227762076	0	1.027887192	3.706452459	3.740660911	5.462320209			
				LDA, LDT1, LDT2, and MCY Composite				0.0147	0.0000	0.2142	0.0956	0.2249	1.4875	0.360003	0.360003	1.2547

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: County
Region: San Diego
Calendar Year: 2029
Season: Summer
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV calculated based on total VMT.
Model Year: Aggregated

Notes:
Idle Duration:
HHDT 109.4 min/day
MHDT 5.86 min/day
LHDT1 1.74 min/day
LHDT2 1.87 min/day
OBUS 5.9 min/day

Table 6. Operation Mobile Source Emissions Factors - EMFAC2021 Summer TOG

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	STEX HOTSOAK RUNLOSS TOG RESTLOSS								
								TOG_RUNEX	TOG_IDLEX	TOG_STREX	TOG_HOTSOAK	TOG_RUNLOSS	TOG_DIURN	TOG_RESTLOSS - Calculated	TOG_DIURN - Calculated	DIURN_Combined - Calculated
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)
San Diego	2029	HHDT	Diesel	Aggregate	16018.91072	1941149.09	242143.0681	0.016392205	6.578399639	0	0	0	0			
								0.0164	6.5784	0.0000	0.0000	0.0000	0.0000	-	-	0.0000
San Diego	2029	LDA	Gasolin	Aggregate	1131921.21	46214128.07	5251577.712	0.010269275	0	0.22221888	0.079366108	0.210921948	1.498438821			
San Diego	2029	LDA	Diesel	Aggregate	3138.761023	94251.37113	13322.6059	0.031971012	0	0	0	0	0			
San Diego	2029	LDA	Electric	Aggregate	99214.84931	4857772.09	484308.9726	0	0	0	0	0	0			
San Diego	2029	LDA	Plug-in	Aggregate	43055.81268	1985991.602	178035.7854	0.00255309	0	0.154957957	0.043172384	0.048527891	0.613362912			
San Diego	2029	LDT1	Gasolin	Aggregate	110049.4691	3842948.942	475235.4461	0.042937111	0	0.440625896	0.185166581	0.518547708	3.468566529			
San Diego	2029	LDT1	Diesel	Aggregate	9.071905132	138.4283213	25.41025054	0.367203615	0	0	0	0	0			
San Diego	2029	LDT1	Electric	Aggregate	640.2791948	32651.8209	3159.082111	0	0	0	0	0	0			
San Diego	2029	LDT1	Plug-in	Aggregate	490.0673486	24788.70042	2026.428486	0.002354782	0	0.154957957	0.024460747	0.020164583	0.338409349			
San Diego	2029	LDT2	Gasolin	Aggregate	561447.6069	23041051	2607110.654	0.015101898	0	0.271993049	0.076733783	0.212102792	1.505508093			
San Diego	2029	LDT2	Diesel	Aggregate	2168.08014	90063.21715	10164.13276	0.029328182	0	0	0	0	0			
San Diego	2029	LDT2	Electric	Aggregate	8269.630948	303515.3785	41420.28342	0	0	0	0	0	0			
San Diego	2029	LDT2	Plug-in	Aggregate	7638.596998	365897.2156	31585.59859	0.002439831	0	0.154957957	0.028073837	0.025333737	0.389711816			
San Diego	2029	MCY	Gasolin	Aggregate	68037.33108	411440.8694	136074.6622	1.501729312	0	1.118072582	3.706452459	3.740660911	5.462320209			
				LDA, LDT1, LDT2, and MCY Composite				0.0199	0.0000	0.2345	0.0956	0.2249	1.4875	0.360003	0.360003	1.2750

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: County
Region: San Diego
Calendar Year: 2029
Season: Summer
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV calculated based on total VMT.
Model Year: Aggregated

Notes:
Idle Duration:
HHDT 109.4 min/day
MHDT 5.86 min/day
LHDT1 1.74 min/day
LHDT2 1.87 min/day
OBUS 5.9 min/day

Table 7. Operation Mobile Source Emissions Factors - EMFAC2021 Summer NOx

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	NOx_RUNEX (g/mile)	NOx_IDLEX (g/vehicle/day)	NOx_STREX (g/trip)
San Diego	2029	HHDT	Diesel	Aggregate	16018.91072	1941149.09	242143.0681 HHDT	1.583685212 1.5837	57.99528771 57.9953	2.902792058 2.9028
San Diego	2029	LDA	Gasolin	Aggregate	1131921.21	46214128.07	5251577.712	0.024760332	0	0.188722602
San Diego	2029	LDA	Diesel	Aggregate	3138.761023	94251.37113	13322.6059	0.098333493	0	0
San Diego	2029	LDA	Electric	Aggregate	99214.84931	4857772.09	484308.9726	0	0	0
San Diego	2029	LDA	Plug-in	Aggregate	43055.81268	1985991.602	178035.7854	0.00284955	0	0.102623646
San Diego	2029	LDT1	Gasolin	Aggregate	110049.4691	3842948.942	475235.4461	0.094723513	0	0.317289318
San Diego	2029	LDT1	Diesel	Aggregate	9.071905132	138.4283213	25.41025054	1.065843576	0	0
San Diego	2029	LDT1	Electric	Aggregate	640.2791948	32651.8209	3159.082111	0	0	0
San Diego	2029	LDT1	Plug-in	Aggregate	490.0673486	24788.70042	2026.428486	0.002628216	0	0.102623646
San Diego	2029	LDT2	Gasolin	Aggregate	561447.6069	23041051	2607110.654	0.041663699	0	0.239379248
San Diego	2029	LDT2	Diesel	Aggregate	2168.08014	90063.21715	10164.13276	0.038565705	0	0
San Diego	2029	LDT2	Electric	Aggregate	8269.630948	303515.3785	41420.28342	0	0	0
San Diego	2029	LDT2	Plug-in	Aggregate	7638.596998	365897.2156	31585.59859	0.002723141	0	0.102623646
San Diego	2029	MCY	Gasolin	Aggregate	68037.33108	411440.8694	136074.6622	0.499238316	0	0.107052603
LDA, LDT1, LDT2, and MCY Composite								0.0331	0.0000	0.1952

Table 8. Operation Mobile Source Emissions Factors - EMFAC2021 Summer CO

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CO_RUNEX (g/mile)	CO_IDLEX (g/vehicle/day)	CO_STREX (g/trip)
San Diego	2029	HHDT	Diesel	Aggregate	16018.91072	1941149.09	242143.0681 HHDT	0.063825851 0.0638	78.86208957 78.8621	0 0.0000
San Diego	2029	LDA	Gasolin	Aggregate	1131921.21	46214128.07	5251577.712	0.731517473	0	1.986771453
San Diego	2029	LDA	Diesel	Aggregate	3138.761023	94251.37113	13322.6059	0.506278074	0	0
San Diego	2029	LDA	Electric	Aggregate	99214.84931	4857772.09	484308.9726	0	0	0
San Diego	2029	LDA	Plug-in	Aggregate	43055.81268	1985991.602	178035.7854	0.274110809	0	1.026824817
San Diego	2029	LDT1	Gasolin	Aggregate	110049.4691	3842948.942	475235.4461	1.562801866	0	3.646908091
San Diego	2029	LDT1	Diesel	Aggregate	9.071905132	138.4283213	25.41025054	2.134298734	0	0
San Diego	2029	LDT1	Electric	Aggregate	640.2791948	32651.8209	3159.082111	0	0	0
San Diego	2029	LDT1	Plug-in	Aggregate	490.0673486	24788.70042	2026.428486	0.254721858	0	1.026824817
San Diego	2029	LDT2	Gasolin	Aggregate	561447.6069	23041051	2607110.654	0.878088995	0	2.332148239
San Diego	2029	LDT2	Diesel	Aggregate	2168.08014	90063.21715	10164.13276	0.270257362	0	0
San Diego	2029	LDT2	Electric	Aggregate	8269.630948	303515.3785	41420.28342	0	0	0
San Diego	2029	LDT2	Plug-in	Aggregate	7638.596998	365897.2156	31585.59859	0.262881883	0	1.026824817
San Diego	2029	MCY	Gasolin	Aggregate	68037.33108	411440.8694	136074.6622	12.64978704	0	6.763429184
LDA, LDT1, LDT2, and MCY Composite								0.8118	0.0000	2.0993

Table 9. Operation Mobile Source Emissions Factors - EMFAC2021 Summer SO2

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	SO2_RUNEX (g/mile)	SO2_IDLEX (g/vehicle/day)	SO2_STREX (g/trip)
San Diego	2029	HHDT	Diesel	Aggregate	16018.91072	1941149.09	242143.0681 HHDT	0.014117379 0.0141	0.11015357 0.1102	0 0.0000
San Diego	2029	LDA	Gasolin	Aggregate	1131921.21	46214128.07	5251577.712	0.002811365	0	0.000612098
San Diego	2029	LDA	Diesel	Aggregate	3138.761023	94251.37113	13322.6059	0.002299522	0	0
San Diego	2029	LDA	Electric	Aggregate	99214.84931	4857772.09	484308.9726	0	0	0
San Diego	2029	LDA	Plug-in	Aggregate	43055.81268	1985991.602	178035.7854	0.001436196	0	0.000594507
San Diego	2029	LDT1	Gasolin	Aggregate	110049.4691	3842948.942	475235.4461	0.003455232	0	0.000785867
San Diego	2029	LDT1	Diesel	Aggregate	9.071905132	138.4283213	25.41025054	0.003936446	0	0
San Diego	2029	LDT1	Electric	Aggregate	640.2791948	32651.8209	3159.082111	0	0	0
San Diego	2029	LDT1	Plug-in	Aggregate	490.0673486	24788.70042	2026.428486	0.001328046	0	0.000636229
San Diego	2029	LDT2	Gasolin	Aggregate	561447.6069	23041051	2607110.654	0.003432081	0	0.000762136
San Diego	2029	LDT2	Diesel	Aggregate	2168.08014	90063.21715	10164.13276	0.002938521	0	0
San Diego	2029	LDT2	Electric	Aggregate	8269.630948	303515.3785	41420.28342	0	0	0
San Diego	2029	LDT2	Plug-in	Aggregate	7638.596998	365897.2156	31585.59859	0.001374151	0	0.000690713
San Diego	2029	MCY	Gasolin	Aggregate	68037.33108	411440.8694	136074.6622	0.002004971	0	0.000422356
LDA, LDT1, LDT2, and MCY Composite								0.0028	0.0000	0.0006

Table 10. Operation Mobile Source Emissions Factors - EMFAC2021 Summer PM10

Region	CalYr	VehClass	Fuel	Speed	Population	VTM	Trips	PM10_RUNEX	PM10_IDLEX	PM10_STREX	PM10_PMTW	PM10_PMBW	PM10_Combined - Calculated
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/mile)	(g/mile)	(g/mile)
San Diego	2029	HHDT	Diesel	Aggregate	16018.91072	1941149.09	242143.0681	0.026767211	0.025675461	0	0.035349483	0.080197196	
							HHDT	0.0268	0.0257	0.0000	0.0353	0.0802	0.142313
San Diego	2029	LDA	Gasolin	Aggregate	1131921.21	46214128.07	5251577.712	0.001323548	0	0.001767023	0.008000063	0.007410921	
San Diego	2029	LDA	Diesel	Aggregate	3138.761023	94251.37113	13322.6059	0.008973576	0	0	0.008000063	0.007645864	
San Diego	2029	LDA	Electric	Aggregate	99214.84931	4857772.09	484308.9726	0	0	0	0.008000002	0.004380489	
San Diego	2029	LDA	Plug-in	Aggregate	43055.81268	1985991.602	178035.7854	0.000589845	0	0.001709512	0.008000002	0.003929999	
San Diego	2029	LDT1	Gasolin	Aggregate	110049.4691	3842948.942	475235.4461	0.002029478	0	0.002559345	0.008000063	0.009343967	
San Diego	2029	LDT1	Diesel	Aggregate	9.071905132	138.4283213	25.41025054	0.207229238	0	0	0.008000063	0.010292416	
San Diego	2029	LDT1	Electric	Aggregate	640.2791948	32651.8209	3159.082111	0	0	0	0.008000002	0.004372364	
San Diego	2029	LDT1	Plug-in	Aggregate	490.0673486	24788.70042	2026.428486	0.000357984	0	0.001119763	0.008000002	0.003954462	
San Diego	2029	LDT2	Gasolin	Aggregate	561447.6069	23041051	2607110.654	0.00139321	0	0.001784302	0.008000063	0.008947213	
San Diego	2029	LDT2	Diesel	Aggregate	2168.08014	90063.21715	10164.13276	0.004747468	0	0	0.008000063	0.008970797	
San Diego	2029	LDT2	Electric	Aggregate	8269.630948	303515.3785	41420.28342	0	0	0	0.008000002	0.004370354	
San Diego	2029	LDT2	Plug-in	Aggregate	7638.596998	365897.2156	31585.59859	0.000451088	0	0.001356698	0.008000002	0.003945212	
San Diego	2029	MCY	Gasolin	Aggregate	68037.33108	411440.8694	136074.6622	0.002502483	0	0.003316246	0.004000031	0.012000003	
							LDA, LDT1, LDT2, and MCY Composite	0.0013	0.0000	0.0017	0.0080	0.0077	0.016937

Table 11. Operation Mobile Source Emissions Factors - EMFAC2021 Summer PM2.5

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	PM2.5_Combined					
								PM2.5_RUNEX	PM2.5_IDLEX	PM2.5_STREX	PM2.5_PMTW	PM2.5_PMBW	Calculated
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/mile)	(g/mile)	(g/mile)
San Diego	2029	HHDT	Diesel	Aggregate	16018.91072	1941149.09	242143.0681	0.025609273	0.024564752	0	0.008837371	0.028069018	
							HHDT	0.0256	0.0246	0.0000	0.0088	0.0281	0.062515
San Diego	2029	LDA	Gasolin	Aggregate	1131921.21	46214128.07	5251577.712	0.001216953	0	0.001624712	0.002000016	0.002593822	
San Diego	2029	LDA	Diesel	Aggregate	3138.761023	94251.37113	13322.6059	0.008585383	0	0	0.002000016	0.002676053	
San Diego	2029	LDA	Electric	Aggregate	99214.84931	4857772.09	484308.9726	0	0	0	0.002000001	0.001533171	
San Diego	2029	LDA	Plug-in	Aggregate	43055.81268	1985991.602	178035.7854	0.000542341	0	0.001571834	0.002000001	0.001375499	
San Diego	2029	LDT1	Gasolin	Aggregate	110049.4691	3842948.942	475235.4461	0.00186603	0	0.002353224	0.002000016	0.003270388	
San Diego	2029	LDT1	Diesel	Aggregate	9.071905132	138.4283213	25.41025054	0.198264593	0	0	0.002000016	0.003602346	
San Diego	2029	LDT1	Electric	Aggregate	640.2791948	32651.8209	3159.082111	0	0	0	0.002000001	0.001530327	
San Diego	2029	LDT1	Plug-in	Aggregate	490.0673486	24788.70042	2026.428486	0.000329153	0	0.00102958	0.002000001	0.001384062	
San Diego	2029	LDT2	Gasolin	Aggregate	561447.6069	23041051	2607110.654	0.001281005	0	0.0016406	0.002000016	0.003131525	
San Diego	2029	LDT2	Diesel	Aggregate	2168.08014	90063.21715	10164.13276	0.004542095	0	0	0.002000016	0.003139779	
San Diego	2029	LDT2	Electric	Aggregate	8269.630948	303515.3785	41420.28342	0	0	0	0.002000001	0.001529624	
San Diego	2029	LDT2	Plug-in	Aggregate	7638.596998	365897.2156	31585.59859	0.000414759	0	0.001247434	0.002000001	0.001380824	
San Diego	2029	MCY	Gasolin	Aggregate	68037.33108	411440.8694	136074.6622	0.00233674	0	0.003107977	0.001000008	0.004200001	
							LDA, LDT1, LDT2, and MCY Composite	0.0012	0.0000	0.0016	0.0020	0.0027	0.005865

Table 12. Operation Mobile Source Emissions Factors - EMFAC2021 Summer CO2

Region	CalYr	VehClass	Fuel	Speed	Population	VTM	Trips	CO2_RUNEX (g/mile)	CO2_IDLEX (g/vehicle/day)	CO2_STREX (g/trip)
San Diego	2029 HHDT	Diesel	Aggregate		16018.91072	1941149.09	242143.0681 HHDT	1490.841664 1490.8417	11632.57936 11632.5794	0 0.0000
San Diego	2029 LDA	Gasolin	Aggregate		1131921.21	46214128.07	5251577.712	284.3778698	0	61.91557416
San Diego	2029 LDA	Diesel	Aggregate		3138.761023	94251.37113	13322.6059	242.6805978	0	0
San Diego	2029 LDA	Electric	Aggregate		99214.84931	4857772.09	484308.9726	0	0	0
San Diego	2029 LDA	Plug-in	Aggregate		43055.81268	1985991.602	178035.7854	145.2755134	0	60.13619083
San Diego	2029 LDT1	Gasolin	Aggregate		110049.4691	3842948.942	475235.4461	349.506994	0	79.4927578
San Diego	2029 LDT1	Diesel	Aggregate		9.071905132	138.4283213	25.41025054	415.4337981	0	0
San Diego	2029 LDT1	Electric	Aggregate		640.2791948	32651.8209	3159.082111	0	0	0
San Diego	2029 LDT1	Plug-in	Aggregate		490.0673486	24788.70042	2026.428486	134.3357932	0	64.35646798
San Diego	2029 LDT2	Gasolin	Aggregate		561447.6069	23041051	2607110.654	347.165156	0	77.0923235
San Diego	2029 LDT2	Diesel	Aggregate		2168.08014	90063.21715	10164.13276	310.1175079	0	0
San Diego	2029 LDT2	Electric	Aggregate		8269.630948	303515.3785	41420.28342	0	0	0
San Diego	2029 LDT2	Plug-in	Aggregate		7638.596998	365897.2156	31585.59859	138.9994425	0	69.8676323
San Diego	2029 MCY	Gasolin	Aggregate		68037.33108	411440.8694	136074.6622	202.8087464	0	42.72259135
						LDA, LDT1, LDT2, and MCY Composite		282.5518	0.0000	63.1118

Source: EMFAC2021 (v1.0.2) Emission Rates

Region Type: County

Region: San Diego

Calendar Year: 2029

Season: Summer

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV

Model Year: Aggregated

Notes:

Idle Duration:

HHDT 109.4 min/day

MHDT 5.86 min/day

LHDT1 1.74 min/day

LHDT2 1.87 min/day

Table 14. Operation Mobile Source Emissions Factors - EMFAC2021 Summer N2O

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	N2O_RUNEX (g/mile)	N2O_IDLEX (g/vehicle/day)	N2O_STREX (g/trip)
San Diego	2029	HHDT	Diesel	Aggregate	16018.91072	1941149.09	242143.0681	0.234882711	1.832717616	0
							HHDT	0.2349	1.8327	0.0000
San Diego	2029	LDA	Gasolin	Aggregate	1131921.21	46214128.07	5251577.712	0.003489981	0	0.027477798
San Diego	2029	LDA	Diesel	Aggregate	3138.761023	94251.37113	13322.6059	0.038234427	0	0
San Diego	2029	LDA	Electric	Aggregate	99214.84931	4857772.09	484308.9726	0	0	0
San Diego	2029	LDA	Plug-in	Aggregate	43055.81268	1985991.602	178035.7854	0.000522132	0	0.018773604
San Diego	2029	LDT1	Gasolin	Aggregate	110049.4691	3842948.942	475235.4461	0.00768105	0	0.034567569
San Diego	2029	LDT1	Diesel	Aggregate	9.071905132	138.4283213	25.41025054	0.065451764	0	0
San Diego	2029	LDT1	Electric	Aggregate	640.2791948	32651.8209	3159.082111	0	0	0
San Diego	2029	LDT1	Plug-in	Aggregate	490.0673486	24788.70042	2026.428486	0.000482608	0	0.018832368
San Diego	2029	LDT2	Gasolin	Aggregate	561447.6069	23041051	2607110.654	0.004452568	0	0.031326839
San Diego	2029	LDT2	Diesel	Aggregate	2168.08014	90063.21715	10164.13276	0.04885914	0	0
San Diego	2029	LDT2	Electric	Aggregate	8269.630948	303515.3785	41420.28342	0	0	0
San Diego	2029	LDT2	Plug-in	Aggregate	7638.596998	365897.2156	31585.59859	0.000497825	0	0.018751003
San Diego	2029	MCY	Gasolin	Aggregate	68037.33108	411440.8694	136074.6622	0.036407763	0	0.006675284
							LDA, LDT1, LDT2, and MCY Composite	0.0039	0.0000	0.0268

Source: EMFAC2021 (v1.0.2) Emission Rates

Region Type: County

Region: San Diego

Calendar Year: 2029

Season: Summer

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV

Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

Table 13. Operation Mobile Source Emissions Factors - EMFAC2021 Summer CH4

Region	CalYr	VehClass	Fuel	Speed	Population	VTM	Trips	CH4_RUNEX (g/mile)	CH4_IDLEX (g/vehicle/day)	CH4_STREX (g/trip)
San Diego	2029 HHDT	Diesel	Aggregate		16018.91072	1941149.09	242143.0681 HHDT	0.000668798 0.0007	0.268397063 0.2684	0 0.0000
San Diego	2029 LDA	Gasolin	Aggregate		1131921.21	46214128.07	5251577.712	0.00206003	0	0.047084313
San Diego	2029 LDA	Diesel	Aggregate		3138.761023	94251.37113	13322.6059	0.001304417	0	0
San Diego	2029 LDA	Electric	Aggregate		99214.84931	4857772.09	484308.9726	0	0	0
San Diego	2029 LDA	Plug-in	Aggregate		43055.81268	1985991.602	178035.7854	0.000557872	0	0.035096545
San Diego	2029 LDT1	Gasolin	Aggregate		110049.4691	3842948.942	475235.4461	0.006794318	0	0.080244872
San Diego	2029 LDT1	Diesel	Aggregate		9.071905132	138.4283213	25.41025054	0.014981908	0	0
San Diego	2029 LDT1	Electric	Aggregate		640.2791948	32651.8209	3159.082111	0	0	0
San Diego	2029 LDT1	Plug-in	Aggregate		490.0673486	24788.70042	2026.428486	0.000515094	0	0.035151605
San Diego	2029 LDT2	Gasolin	Aggregate		561447.6069	23041051	2607110.654	0.002853014	0	0.056937838
San Diego	2029 LDT2	Diesel	Aggregate		2168.08014	90063.21715	10164.13276	0.00119659	0	0
San Diego	2029 LDT2	Electric	Aggregate		8269.630948	303515.3785	41420.28342	0	0	0
San Diego	2029 LDT2	Plug-in	Aggregate		7638.596998	365897.2156	31585.59859	0.000532519	0	0.035075844
San Diego	2029 MCY	Gasolin	Aggregate		68037.33108	411440.8694	136074.6622	0.191733683	0	0.139979215
					LDA, LDT1, LDT2, and MCY Composite			0.0033	0.0000	0.0499

Source: EMFAC2021 (v1.0.2) Emission Rates

Region Type: County

Region: San Diego

Calendar Year: 2029

Season: Summer

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV

Model Year: Aggregated

Notes:

Idle Duration:

HHDT 109.4 min/day

MHDT 5.86 min/day

LHDT1 1.74 min/day

LHDT2 1.87 min/day

Table 14. Paved Road Fugitive Emissions - Operation Mobile Sources

Equation:

$$E = k \times (sL/2)^{0.91} \times (W)1.02 \text{ [maximum day]}$$

Where:

		Units
k	particle size multiplier (PM ₁₀)	0.00220 lb/VMT
k	particle size multiplier (PM _{2.5})	0.00054 lb/VMT
sL	silt loading (2) average weight (tons) of the vehicle traveling the road	0.1 g/m ²
W	road	2.4 tons

Notes/References:

k = Emission factors from CalEEMod2016.3.1 per AP-42, Section 13.2.1 (Paved Roads).

sL = Silt loading from CalEEMod2016.3.2

For daily emissions it is assumed to have no precipitation.

Truck Weight Assumptions

EMFAC Definition	EMFAC Category	GVWR (pounds)	GVWR (tons)	
Heavy Heavy-Duty Truck	HHDT	>33,000	17	<i>Assumed 33,000 pounds</i>
Medium Heavy-Duty Truck	MHDT	14,001-33,000	8	<i>Assumed average of 14,001 & 33,000 pounds</i>
Composite Heavy & Medium Heavy-Duty Truck	HHDT & MHDT	14,001-33,000+	13	<i>Assumed average of HHDT & MHDT pounds</i>

Source: EMFAC 2014

GVWR = Gross Vehicle Weight Rating

1 pound = 0.0005 US tons

Employee Vehicles Evaluated:

Employee Type	Average Weight (tons)
Passenger Vehicles	2.4

Reference:

Source: CalEEMod2016.3.2 (average vehicle weight = 2.4 tons)

Per AP-42, Section 13.2.1 (Paved Roads): The above equation calls for the average weight of all vehicles traveling the road. For example, if 99 percent of traffic on the road are 2 ton cars/trucks while the remaining 1 percent consists of 20 ton trucks, then the mean weight "W" is 2.2 tons. More specifically, the above equation is not intended to be used to calculate a separate emission factor for each vehicle weight class. Instead, only one emission factor should be calculated to represent the "fleet" average weight of all vehicles traveling the road.

Emission Factors	PM10 Paved Road (lb/VMT)	PM2.5 Paved Road (lb/VMT)	PM10 Paved Road (g/VMT)	PM2.5 Paved Road (g/VMT)
HHDT	0.0049	0.0012	2.2087	0.5421
MHDT	0.0023	0.0006	1.0239	0.2513
HHDT & MHDT	0.0037	0.0009	1.6800	0.4124
Passenger Vehicles	0.0007	0.0002	0.2998	0.0736
Average	0.0022	0.0005	0.9899	0.2430

$$RESTL_{CalEEMod} = \sum_{fueltype} (RESTL_EmissionRate_i \times Population_i) / \sum_{fueltype} Trip_i$$

$$DIURN_{CalEEMod} = \sum_{fueltype} (DIURN_EmissionRate_i \times Population_i) / \sum_{fueltype} Trip_i$$

RESTL	Resting Loss Evaporative	grams/vehicle/day	grams/trip
DIURN	Diurnal Loss Evaporative	grams/vehicle/day	grams/trip

2029 Operation Mobile Source Assumptions Summary

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT	7.63	50	382	18,250	139,248
Employees	LDA, LDT1, LDT2, and MCY Composite	15.3	28	428	10,220	156,366

Notes:

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT	7.63	50	382	18,250	139,248
Employees	LDA, LDT1, LDT2, and MCY Composite	15.3	28	428	10,220	156,366

Project Vehicle	EMFAC Class	Max Daily Trips (trips/day)	Annual Trips (trips/year)
Trucks	HHDT	50	18,250
Employees	LDA, LDT1, LDT2, and MCY Composite	28	10,220

Project Vehicle	EMFAC Class	Idling Minutes per Day (min/day)	Idling Minutes per Year (min/year)
Trucks	HHDT	750	273,750

2029 Operation Mobile Source Emissions Summary - Winter Daily Emissions

Emissions - Daily (Pounds/Day)

ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
Running Exhaust, Tire Wear, and Break Wear									
0.01	1.38	0.05	0.01	0.12	0.05	1,253.89	0.00	0.20	1,312.78
0.01	0.04	0.62	0.00	0.02	0.01	251.16	0.00	0.00	252.46
Subtotal	0.03	1.41	0.67	0.01	0.14	1,505.05	0.00	0.20	1,565.24

PM10	PM2.5
Paved Road - PM only	
1.41	0.35
0.28	0.07
Subtotal	1.70

ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
Starting Exhaust, Hot Soak, Running Loss Evaporative, Resting Loss Evap, Diurnal Loss Evap									
0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.02	0.01	0.17	0.00	0.00	0.00	3.97	0.00	0.00	4.59
Subtotal	0.02	0.33	0.17	0.00	0.00	3.97	0.00	0.00	4.59

ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
Idling									
0.08	0.98	1.23	0.00	0.00	0.00	180.81	0.00	0.03	189.39
Subtotal	0.08	0.98	1.23	0.00	0.00	180.81	0.00	0.03	189.39
TOTAL	0.12	2.72	2.07	0.02	1.83	1,689.83	0.01	0.23	1,759.22

2029 Operation Mobile Source Assumptions Summary

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT	7.63	50	382	18,250	139,248
Employees	LDA, LDT1, LDT2, and MCY Composite	15.3	28	428	10,220	156,366

Notes:

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT	7.63	50	382	18,250	139,248
Employees	LDA, LDT1, LDT2, and MCY Composite	15.3	28	428	10,220	156,366

Project Vehicle	EMFAC Class	Max Daily Trips (trips/day)	Annual Trips (trips/year)
Trucks	HHDT	50	18,250
Employees	LDA, LDT1, LDT2, and MCY Composite	28	10,220

Project Vehicle	EMFAC Class	Idling Minutes per Day (min/day)	Idling Minutes per Year (min/year)
Trucks	HHDT	750	273,750

2024 Operation Mobile Source Emissions Factors - EMFAC2021 Winter

Emission Factors: Summary

Project Vehicle	Vehicle Classes	Fuel	Speed	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O
				Running Exhaust, Tire Wear, and Break Wear (grams/mile)								
Trucks	HHDT	Diesel	Aggregate	0.014	1.637	0.064	0.014	0.142	0.063	1,490.842	0.001	0.235
Employees	LDA, LDT1, LDT2, and MCY Composite	Gas, Electric, & Diesel (Aggregate)	Aggregate	0.014	0.039	0.652	0.003	0.017	0.006	265.930	0.003	0.004
Project Vehicle	Vehicle Classes			PM10		PM2.5						
				Paved Road - PM Only (grams/mile)								
Trucks	HHDT			1.680		0.412						
Employees	LDA, LDT1, LDT2, and MCY Composite			0.300		0.074						
Project Vehicle	Vehicle Classes	Fuel		ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O
				Starting Exhaust, Hot Soak, Running Loss Evaporative, Resting Loss Evap, Diurnal Loss Evap (grams/trip)								
Trucks	HHDT	Diesel		0.000	2.903	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Employees	LDA, LDT1, LDT2, and MCY Composite	Gas, Electric, & Diesel (Aggregate)		0.258	0.222	2.721	0.001	0.002	0.002	64.253	0.059	0.029
Project Vehicle	Vehicle Classes	Fuel		ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O
				Idling (grams/Idle-min/vehicle)								
Trucks	HHDT	Diesel		0.046	0.591	0.745	0.001	0.000	0.000	109.352	0.002	0.017
Employees	LDA, LDT1, LDT2, and MCY Composite	Gas, Electric, & Diesel (Aggregate)		0	0	0	0	0	0	0	0	0

Project Vehicle	Vehicle Classes	PM10	PM2.5
		Paved Road - PM Only (grams/mile)	
Trucks	HHDT	1.680	0.412
Employees	LDA, LDT1, LDT2, and MCY Composite	0.300	0.074

Project Vehicle	Vehicle Classes	Fuel	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O
			Starting Exhaust, Hot Soak, Running Loss Evaporative, Resting Loss Evap, Diurnal Loss Evap (grams/trip)								
Trucks	HHDT	Diesel	0.000	2.903	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Employees	LDA, LDT1, LDT2, and MCY Composite	Gas, Electric, & Diesel (Aggregate)	0.258	0.222	2.721	0.001	0.002	0.002	64.253	0.059	0.029

[illegible]

Table 5. Operation Mobile Source Emissions Factors - EMFAC2021 Winter ROG

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	STEX HOTSOAK RUNLOSS ROG RESTLOSS								
								ROG_RUNEX	ROG_IDLEX	ROG_STREX	ROG_HOTSOAK	ROG_RUNLOSS	ROG_DIURN	ROG_RESTLOSS - Calculated	ROG_DIURN - Calculated	DIURN_Combined - Calculated
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)
San Diego	2029	HHDT	Diesel	Aggregate	16018.91072	1941149.09	242143.0681	0.014399035	5.020410143	0	0	0	0			
								0.0144	5.0204	0.0000	0.0000	0.0000	0.0000	-	-	0.0000
San Diego	2029	LDA	Gasolin	Aggregate	1131921.21	46214128.07	5251577.712	0.006759523	0	0.244350574	0.075158025	0.21253319	1.285556961			
San Diego	2029	LDA	Diesel	Aggregate	3138.761023	94251.37113	13322.6059	0.028083337	0	0	0	0	0			
San Diego	2029	LDA	Electric	Aggregate	99214.84931	4857772.09	484308.9726	0	0	0	0	0	0			
San Diego	2029	LDA	Plug-in	Aggregate	43055.81268	1985991.602	178035.7854	0.001680058	0	0.175814762	0.040818143	0.048358959	0.503089771			
San Diego	2029	LDT1	Gasolin	Aggregate	110049.4691	3842948.942	475235.4461	0.028271859	0	0.487513379	0.174124519	0.528532158	2.920104392			
San Diego	2029	LDT1	Diesel	Aggregate	9.071905132	138.4283213	25.41025054	0.322551656	0	0	0	0	0			
San Diego	2029	LDT1	Electric	Aggregate	640.2791948	32651.8209	3159.082111	0	0	0	0	0	0			
San Diego	2029	LDT1	Plug-in	Aggregate	490.0673486	24788.70042	2026.428486	0.001549562	0	0.175814762	0.022998932	0.019788155	0.26966837			
San Diego	2029	LDT2	Gasolin	Aggregate	561447.6069	23041051	2607110.654	0.009941134	0	0.299344499	0.072815675	0.213119227	1.311475641			
San Diego	2029	LDT2	Diesel	Aggregate	2168.08014	90063.21715	10164.13276	0.025761875	0	0	0	0	0			
San Diego	2029	LDT2	Electric	Aggregate	8269.630948	303515.3785	41420.28342	0	0	0	0	0	0			
San Diego	2029	LDT2	Plug-in	Aggregate	7638.596998	365897.2156	31585.59859	0.001605528	0	0.175814762	0.026425408	0.025010099	0.311235867			
San Diego	2029	MCY	Gasolin	Aggregate	68037.33108	411440.8694	136074.6622	1.237646068	0	1.243263622	3.584963959	4.152130336	4.263323994			
				LDA, LDT1, LDT2, and MCY Composite				0.0144	0.0000	0.2583	0.0909	0.2286	1.2764	0.306157	0.306157	1.1901

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: County
Region: San Diego
Calendar Year: 2029
Season: Winter
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV calculated based on total VMT.
Model Year: Aggregated

Notes:
Idle Duration:
HHDT 109.4 min/day
MHDT 5.86 min/day
LHDT1 1.74 min/day
LHDT2 1.87 min/day
OBUS 5.9 min/day

Table 6. Operation Mobile Source Emissions Factors - EMFAC2021 Winter TOG

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	STEX HOTSOAK RUNLOSS TOG RESTLOSS								
								TOG_RUNEX	TOG_IDLEX	TOG_STREX	TOG_HOTSOAK	TOG_RUNLOSS	TOG_DIURN	TOG_RESTLOSS - Calculated	TOG_DIURN - Calculated	DIURN_Combined - Calculated
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)
San Diego	2029	HHDT	Diesel	Aggregate	16018.91072	1941149.09	242143.0681	0.016392205	5.715354788	0	0	0	0			
								0.0164	5.7154	0.0000	0.0000	0.0000	0.0000	-	-	0.0000
HHDT Composite																
San Diego	2029	LDA	Gasolin	Aggregate	1131921.21	46214128.07	5251577.712	0.00986348	0	0.267533122	0.075158025	0.21253319	1.285556961			
San Diego	2029	LDA	Diesel	Aggregate	3138.761023	94251.37113	13322.6059	0.031971012	0	0	0	0	0			
San Diego	2029	LDA	Electric	Aggregate	99214.84931	4857772.09	484308.9726	0	0	0	0	0	0			
San Diego	2029	LDA	Plug-in	Aggregate	43055.81268	1985991.602	178035.7854	0.002451536	0	0.192495034	0.040818143	0.048358959	0.503089771			
San Diego	2029	LDT1	Gasolin	Aggregate	110049.4691	3842948.942	475235.4461	0.041254231	0	0.533765786	0.174124519	0.528532158	2.920104392			
San Diego	2029	LDT1	Diesel	Aggregate	9.071905132	138.4283213	25.41025054	0.367203615	0	0	0	0	0			
San Diego	2029	LDT1	Electric	Aggregate	640.2791948	32651.8209	3159.082111	0	0	0	0	0	0			
San Diego	2029	LDT1	Plug-in	Aggregate	490.0673486	24788.70042	2026.428486	0.002261117	0	0.192495034	0.022998932	0.019788155	0.26966837			
San Diego	2029	LDT2	Gasolin	Aggregate	561447.6069	23041051	2607110.654	0.014506079	0	0.327744547	0.072815675	0.213119227	1.311475641			
San Diego	2029	LDT2	Diesel	Aggregate	2168.08014	90063.21715	10164.13276	0.029328182	0	0	0	0	0			
San Diego	2029	LDT2	Electric	Aggregate	8269.630948	303515.3785	41420.28342	0	0	0	0	0	0			
San Diego	2029	LDT2	Plug-in	Aggregate	7638.596998	365897.2156	31585.59859	0.002342783	0	0.192495034	0.026425408	0.025010099	0.311235867			
San Diego	2029	MCY	Gasolin	Aggregate	68037.33108	411440.8694	136074.6622	1.508579223	0	1.3521751	3.584963959	4.152130336	4.263323994			
LDA, LDT1, LDT2, and MCY Composite								0.0195	0.0000	0.2828	0.0909	0.2286	1.2764	0.306157	0.306157	1.2146

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: County
Region: San Diego
Calendar Year: 2029
Season: Winter
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV calculated based on total VMT.
Model Year: Aggregated

Notes:
Idle Duration:
HHDT 109.4 min/day
MHDT 5.86 min/day
LHDT1 1.74 min/day
LHDT2 1.87 min/day
OBUS 5.9 min/day

Table 7. Operation Mobile Source Emissions Factors - EMFAC2021 Winter NOx

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	NOx_RUNEX (g/mile)	NOx_IDLEX (g/vehicle/day)	NOx_STREX (g/trip)
San Diego	2029	HHDT	Diesel	Aggregate	16018.91072	1941149.09	242143.0681	1.636721193	64.62515066	2.902792058
				HHDT Composite				1.6367	64.6252	2.9028
San Diego	2029	LDA	Gasolin	Aggregate	1131921.21	46214128.07	5251577.712	0.028899522	0	0.214438821
San Diego	2029	LDA	Diesel	Aggregate	3138.761023	94251.37113	13322.6059	0.101286865	0	0
San Diego	2029	LDA	Electric	Aggregate	99214.84931	4857772.09	484308.9726	0	0	0
San Diego	2029	LDA	Plug-in	Aggregate	43055.81268	1985991.602	178035.7854	0.003326942	0	0.117027688
San Diego	2029	LDT1	Gasolin	Aggregate	110049.4691	3842948.942	475235.4461	0.110563303	0	0.360464925
San Diego	2029	LDT1	Diesel	Aggregate	9.071905132	138.4283213	25.41025054	1.097888051	0	0
San Diego	2029	LDT1	Electric	Aggregate	640.2791948	32651.8209	3159.082111	0	0	0
San Diego	2029	LDT1	Plug-in	Aggregate	490.0673486	24788.70042	2026.428486	0.003068526	0	0.117027688
San Diego	2029	LDT2	Gasolin	Aggregate	561447.6069	23041051	2607110.654	0.048628764	0	0.271981148
San Diego	2029	LDT2	Diesel	Aggregate	2168.08014	90063.21715	10164.13276	0.03972179	0	0
San Diego	2029	LDT2	Electric	Aggregate	8269.630948	303515.3785	41420.28342	0	0	0
San Diego	2029	LDT2	Plug-in	Aggregate	7638.596998	365897.2156	31585.59859	0.003179354	0	0.117027688
San Diego	2029	MCY	Gasolin	Aggregate	68037.33108	411440.8694	136074.6622	0.557387738	0	0.117618268
				LDA, LDT1, LDT2, and MCY Composite				0.0385	0.0000	0.2217

Table 8. Operation Mobile Source Emissions Factors - EMFAC2021 Winter CO

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CO_RUNEX (g/mile)	CO_IDLEX (g/vehicle/day)	CO_STREX (g/trip)
San Diego	2029	HHDT	Diesel	Aggregate	16018.91072	1941149.09	242143.0681	0.063825851	81.49190827	0
							HHDT Composite	0.0638	81.4919	0.0000
San Diego	2029	LDA	Gasolin	Aggregate	1131921.21	46214128.07	5251577.712	0.573686353	0	2.578615871
San Diego	2029	LDA	Diesel	Aggregate	3138.761023	94251.37113	13322.6059	0.506278074	0	0
San Diego	2029	LDA	Electric	Aggregate	99214.84931	4857772.09	484308.9726	0	0	0
San Diego	2029	LDA	Plug-in	Aggregate	43055.81268	1985991.602	178035.7854	0.214027738	0	1.3714374
San Diego	2029	LDT1	Gasolin	Aggregate	110049.4691	3842948.942	475235.4461	1.230969455	0	4.782190577
San Diego	2029	LDT1	Diesel	Aggregate	9.071905132	138.4283213	25.41025054	2.134298734	0	0
San Diego	2029	LDT1	Electric	Aggregate	640.2791948	32651.8209	3159.082111	0	0	0
San Diego	2029	LDT1	Plug-in	Aggregate	490.0673486	24788.70042	2026.428486	0.197403443	0	1.3714374
San Diego	2029	LDT2	Gasolin	Aggregate	561447.6069	23041051	2607110.654	0.688931136	0	3.03620861
San Diego	2029	LDT2	Diesel	Aggregate	2168.08014	90063.21715	10164.13276	0.270257362	0	0
San Diego	2029	LDT2	Electric	Aggregate	8269.630948	303515.3785	41420.28342	0	0	0
San Diego	2029	LDT2	Plug-in	Aggregate	7638.596998	365897.2156	31585.59859	0.20453321	0	1.3714374
San Diego	2029	MCY	Gasolin	Aggregate	68037.33108	411440.8694	136074.6622	12.76084141	0	8.090847578
							LDA, LDT1, LDT2, and MCY Composite	0.6515	0.0000	2.7205

Table 9. Operation Mobile Source Emissions Factors - EMFAC2021 Winter SO2

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	SO2_RUNEX (g/mile)	SO2_IDLEX (g/vehicle/day)	SO2_STREX (g/trip)
San Diego	2029	HHDT	Diesel	Aggregate	16018.91072	1941149.09	242143.0681	0.014117379	0.113283423	0
							HHDT Composite	0.0141	0.1133	0.0000
San Diego	2029	LDA	Gasolin	Aggregate	1131921.21	46214128.07	5251577.712	0.002632128	0	0.000622757
San Diego	2029	LDA	Diesel	Aggregate	3138.761023	94251.37113	13322.6059	0.002299522	0	0
San Diego	2029	LDA	Electric	Aggregate	99214.84931	4857772.09	484308.9726	0	0	0
San Diego	2029	LDA	Plug-in	Aggregate	43055.81268	1985991.602	178035.7854	0.001337379	0	0.000601052
San Diego	2029	LDT1	Gasolin	Aggregate	110049.4691	3842948.942	475235.4461	0.003258106	0	0.0008065
San Diego	2029	LDT1	Diesel	Aggregate	9.071905132	138.4283213	25.41025054	0.003936446	0	0
San Diego	2029	LDT1	Electric	Aggregate	640.2791948	32651.8209	3159.082111	0	0	0
San Diego	2029	LDT1	Plug-in	Aggregate	490.0673486	24788.70042	2026.428486	0.0012335	0	0.000642773
San Diego	2029	LDT2	Gasolin	Aggregate	561447.6069	23041051	2607110.654	0.003254998	0	0.000774871
San Diego	2029	LDT2	Diesel	Aggregate	2168.08014	90063.21715	10164.13276	0.002938521	0	0
San Diego	2029	LDT2	Electric	Aggregate	8269.630948	303515.3785	41420.28342	0	0	0
San Diego	2029	LDT2	Plug-in	Aggregate	7638.596998	365897.2156	31585.59859	0.001278051	0	0.000697257
San Diego	2029	MCY	Gasolin	Aggregate	68037.33108	411440.8694	136074.6622	0.00200692	0	0.000450251
							LDA, LDT1, LDT2, and MCY Composite	0.0026	0.0000	0.0006

Table 10. Operation Mobile Source Emissions Factors - EMFAC2021 Winter PM10

Region	CalYr	VehClass	Fuel	Speed	Population	VTM	Trips	PM10_RUNEX	PM10_IDLEX	PM10_STREX	PM10_PMTW	PM10_PMBW	PM10_Combined - Calculated
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/mile)	(g/mile)	(g/mile)
San Diego	2029	HHDT	Diesel	Aggregate	16018.91072	1941149.09	242143.0681	0.026767211	0.034088502	0	0.035349483	0.080197196	
							HHDT Composite	0.0268	0.0341	0.0000	0.0353	0.0802	0.142313
San Diego	2029	LDA	Gasolin	Aggregate	1131921.21	46214128.07	5251577.712	0.001323548	0	0.001767023	0.008000063	0.007410921	
San Diego	2029	LDA	Diesel	Aggregate	3138.761023	94251.37113	13322.6059	0.008973576	0	0	0.008000063	0.007645864	
San Diego	2029	LDA	Electric	Aggregate	99214.84931	4857772.09	484308.9726	0	0	0	0.008000002	0.004380489	
San Diego	2029	LDA	Plug-in	Aggregate	43055.81268	1985991.602	178035.7854	0.000589845	0	0.001709512	0.008000002	0.003929999	
San Diego	2029	LDT1	Gasolin	Aggregate	110049.4691	3842948.942	475235.4461	0.002029478	0	0.002559345	0.008000063	0.009343967	
San Diego	2029	LDT1	Diesel	Aggregate	9.071905132	138.4283213	25.41025054	0.207229238	0	0	0.008000063	0.010292416	
San Diego	2029	LDT1	Electric	Aggregate	640.2791948	32651.8209	3159.082111	0	0	0	0.008000002	0.004372364	
San Diego	2029	LDT1	Plug-in	Aggregate	490.0673486	24788.70042	2026.428486	0.000357984	0	0.001119763	0.008000002	0.003954462	
San Diego	2029	LDT2	Gasolin	Aggregate	561447.6069	23041051	2607110.654	0.00139321	0	0.001784302	0.008000063	0.008947213	
San Diego	2029	LDT2	Diesel	Aggregate	2168.08014	90063.21715	10164.13276	0.004747468	0	0	0.008000063	0.008970797	
San Diego	2029	LDT2	Electric	Aggregate	8269.630948	303515.3785	41420.28342	0	0	0	0.008000002	0.004370354	
San Diego	2029	LDT2	Plug-in	Aggregate	7638.596998	365897.2156	31585.59859	0.000451088	0	0.001356698	0.008000002	0.003945212	
San Diego	2029	MCY	Gasolin	Aggregate	68037.33108	411440.8694	136074.6622	0.002502483	0	0.003316246	0.004000031	0.012000003	
							LDA, LDT1, LDT2, and MCY Composite	0.0013	0.0000	0.0017	0.0080	0.0077	0.016937

Table 11. Operation Mobile Source Emissions Factors - EMFAC2021 Winter PM2.5

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	PM2.5_RUNEX	PM2.5_IDLEX	PM2.5_STREX	PM2.5_PMTW	PM2.5_PMBW	PM2.5_Combined Calculated
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/mile)	(g/mile)	(g/mile)
San Diego	2029	HHDT	Diesel	Aggregate	16018.91072	1941149.09	242143.0681	0.025609273	0.032613849	0	0.008837371	0.028069018	
							HHDT Composite	0.0256	0.0326	0.0000	0.0088	0.0281	0.062515
San Diego	2029	LDA	Gasolin	Aggregate	1131921.21	46214128.07	5251577.712	0.001216953	0	0.001624712	0.002000016	0.002593822	
San Diego	2029	LDA	Diesel	Aggregate	3138.761023	94251.37113	13322.6059	0.008585383	0	0	0.002000016	0.002676053	
San Diego	2029	LDA	Electric	Aggregate	99214.84931	4857772.09	484308.9726	0	0	0	0.002000001	0.001533171	
San Diego	2029	LDA	Plug-in	Aggregate	43055.81268	1985991.602	178035.7854	0.000542341	0	0.001571834	0.002000001	0.001375499	
San Diego	2029	LDT1	Gasolin	Aggregate	110049.4691	3842948.942	475235.4461	0.00186603	0	0.002353224	0.002000016	0.003270388	
San Diego	2029	LDT1	Diesel	Aggregate	9.071905132	138.4283213	25.41025054	0.198264593	0	0	0.002000016	0.003602346	
San Diego	2029	LDT1	Electric	Aggregate	640.2791948	32651.8209	3159.082111	0	0	0	0.002000001	0.001530327	
San Diego	2029	LDT1	Plug-in	Aggregate	490.0673486	24788.70042	2026.428486	0.000329153	0	0.00102958	0.002000001	0.001384062	
San Diego	2029	LDT2	Gasolin	Aggregate	561447.6069	23041051	2607110.654	0.001281005	0	0.0016406	0.002000016	0.003131525	
San Diego	2029	LDT2	Diesel	Aggregate	2168.08014	90063.21715	10164.13276	0.004542095	0	0	0.002000016	0.003139779	
San Diego	2029	LDT2	Electric	Aggregate	8269.630948	303515.3785	41420.28342	0	0	0	0.002000001	0.001529624	
San Diego	2029	LDT2	Plug-in	Aggregate	7638.596998	365897.2156	31585.59859	0.000414759	0	0.001247434	0.002000001	0.001380824	
San Diego	2029	MCY	Gasolin	Aggregate	68037.33108	411440.8694	136074.6622	0.00233674	0	0.003107977	0.001000008	0.004200001	
							LDA, LDT1, LDT2, and MCY Composite	0.0012	0.0000	0.0016	0.0020	0.0027	0.005865

Table 12. Operation Mobile Source Emissions Factors - EMFAC2021 Winter CO2

Region	CalYr	VehClass	Fuel	Speed	Population	VTM	Trips	CO2_RUNEX (g/mile)	CO2_IDLEX (g/vehicle/day)	CO2_STREX (g/trip)
San Diego	2029 HHDT	Diesel	Aggregate		16018.91072	1941149.09	242143.0681	1490.841664	11963.10208	0
							HHDT Composite	1490.8417	11963.1021	0.0000
San Diego	2029 LDA	Gasolin	Aggregate		1131921.21	46214128.07	5251577.712	266.2475331	0	62.99367923
San Diego	2029 LDA	Diesel	Aggregate		3138.761023	94251.37113	13322.6059	242.6805978	0	0
San Diego	2029 LDA	Electric	Aggregate		99214.84931	4857772.09	484308.9726	0	0	0
San Diego	2029 LDA	Plug-in	Aggregate		43055.81268	1985991.602	178035.7854	135.2798652	0	60.7981602
San Diego	2029 LDT1	Gasolin	Aggregate		110049.4691	3842948.942	475235.4461	329.5670768	0	81.57987091
San Diego	2029 LDT1	Diesel	Aggregate		9.071905132	138.4283213	25.41025054	415.4337981	0	0
San Diego	2029 LDT1	Electric	Aggregate		640.2791948	32651.8209	3159.082111	0	0	0
San Diego	2029 LDT1	Plug-in	Aggregate		490.0673486	24788.70042	2026.428486	124.7721977	0	65.01843734
San Diego	2029 LDT2	Gasolin	Aggregate		561447.6069	23041051	2607110.654	329.2527335	0	78.38050471
San Diego	2029 LDT2	Diesel	Aggregate		2168.08014	90063.21715	10164.13276	310.1175079	0	0
San Diego	2029 LDT2	Electric	Aggregate		8269.630948	303515.3785	41420.28342	0	0	0
San Diego	2029 LDT2	Plug-in	Aggregate		7638.596998	365897.2156	31585.59859	129.2786875	0	70.52960167
San Diego	2029 MCY	Gasolin	Aggregate		68037.33108	411440.8694	136074.6622	203.0058725	0	45.54417325
						LDA, LDT1, LDT2, and MCY Composite		265.9297	0.0000	64.2528

Source: EMFAC2021 (v1.0.2) Emission Rates

Region Type: County

Region: San Diego

Calendar Year: 2029

Season: Winter

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV

Model Year: Aggregated

Notes:

Idle Duration:

HHDT 109.4 min/day

MHDT 5.86 min/day

LHDT1 1.74 min/day

LHDT2 1.87 min/day

Table 14. Operation Mobile Source Emissions Factors - EMFAC2021 Winter N2O

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	N2O_RUNEX (g/mile)	N2O_IDLEX (g/vehicle/day)	N2O_STREX (g/trip)
San Diego	2029	HHDT	Diesel	Aggregate	16018.91072	1941149.09	242143.0681	0.234882711	1.884791604	0
							HHDT Composite	0.2349	1.8848	0.0000
San Diego	2029	LDA	Gasolin	Aggregate	1131921.21	46214128.07	5251577.712	0.003901714	0	0.029911147
San Diego	2029	LDA	Diesel	Aggregate	3138.761023	94251.37113	13322.6059	0.038234427	0	0
San Diego	2029	LDA	Electric	Aggregate	99214.84931	4857772.09	484308.9726	0	0	0
San Diego	2029	LDA	Plug-in	Aggregate	43055.81268	1985991.602	178035.7854	0.000584844	0	0.020539208
San Diego	2029	LDT1	Gasolin	Aggregate	110049.4691	3842948.942	475235.4461	0.008577748	0	0.037606965
San Diego	2029	LDT1	Diesel	Aggregate	9.071905132	138.4283213	25.41025054	0.065451764	0	0
San Diego	2029	LDT1	Electric	Aggregate	640.2791948	32651.8209	3159.082111	0	0	0
San Diego	2029	LDT1	Plug-in	Aggregate	490.0673486	24788.70042	2026.428486	0.000540568	0	0.020603196
San Diego	2029	LDT2	Gasolin	Aggregate	561447.6069	23041051	2607110.654	0.004976395	0	0.034094334
San Diego	2029	LDT2	Diesel	Aggregate	2168.08014	90063.21715	10164.13276	0.04885914	0	0
San Diego	2029	LDT2	Electric	Aggregate	8269.630948	303515.3785	41420.28342	0	0	0
San Diego	2029	LDT2	Plug-in	Aggregate	7638.596998	365897.2156	31585.59859	0.000557627	0	0.020514685
San Diego	2029	MCY	Gasolin	Aggregate	68037.33108	411440.8694	136074.6622	0.039297116	0	0.007071324
							LDA, LDT1, LDT2, and MCY Composite	0.0044	0.0000	0.0291

Source: EMFAC2021 (v1.0.2) Emission Rates

Region Type: County

Region: San Diego

Calendar Year: 2029

Season: Winter

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV

Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

Table 13. Operation Mobile Source Emissions Factors - EMFAC2021 Winter CH4

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CH4_RUNEX (g/mile)	CH4_IDLEX (g/vehicle/day)	CH4_STREX (g/trip)
San Diego	2029	HHDT	Diesel	Aggregate	16018.91072	1941149.09	242143.0681	0.000668798	0.233185048	0
							HHDT Composite	0.0007	0.2332	0.0000
San Diego	2029	LDA	Gasolin	Aggregate	1131921.21	46214128.07	5251577.712	0.001945423	0	0.055670421
San Diego	2029	LDA	Diesel	Aggregate	3138.761023	94251.37113	13322.6059	0.001304417	0	0
San Diego	2029	LDA	Electric	Aggregate	99214.84931	4857772.09	484308.9726	0	0	0
San Diego	2029	LDA	Plug-in	Aggregate	43055.81268	1985991.602	178035.7854	0.000522627	0	0.042534655
San Diego	2029	LDT1	Gasolin	Aggregate	110049.4691	3842948.942	475235.4461	0.006445207	0	0.095646921
San Diego	2029	LDT1	Diesel	Aggregate	9.071905132	138.4283213	25.41025054	0.014981908	0	0
San Diego	2029	LDT1	Electric	Aggregate	640.2791948	32651.8209	3159.082111	0	0	0
San Diego	2029	LDT1	Plug-in	Aggregate	490.0673486	24788.70042	2026.428486	0.000482566	0	0.042603372
San Diego	2029	LDT2	Gasolin	Aggregate	561447.6069	23041051	2607110.654	0.00269786	0	0.067422293
San Diego	2029	LDT2	Diesel	Aggregate	2168.08014	90063.21715	10164.13276	0.00119659	0	0
San Diego	2029	LDT2	Electric	Aggregate	8269.630948	303515.3785	41420.28342	0	0	0
San Diego	2029	LDT2	Plug-in	Aggregate	7638.596998	365897.2156	31585.59859	0.000498851	0	0.04250826
San Diego	2029	MCY	Gasolin	Aggregate	68037.33108	411440.8694	136074.6622	0.190833366	0	0.166767181
							LDA, LDT1, LDT2, and MCY Composite	0.0032	0.0000	0.0591

Source: EMFAC2021 (v1.0.2) Emission Rates

Region Type: County

Region: San Diego

Calendar Year: 2029

Season: Winter

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV

Model Year: Aggregated

Notes:

Idle Duration:

HHDT 109.4 min/day

MHDT 5.86 min/day

LHDT1 1.74 min/day

LHDT2 1.87 min/day

Table 14. Paved Road Fugitive Emissions - Operation Mobile Sources

Equation:

$$E = k \times (sL/2)^{0.91} \times (W)1.02 \text{ [maximum day]}$$

Where:

		Units
k	particle size multiplier (PM ₁₀)	0.00220 lb/VMT
k	particle size multiplier (PM _{2.5})	0.00054 lb/VMT
sL	silt loading (2) average weight (tons) of the vehicle traveling the road	0.1 g/m ²
W	road	2.4 tons

Notes/References:

k = Emission factors from CalEEMod2016.3.1 per AP-42, Section 13.2.1 (Paved Roads).

sL = Silt loading from CalEEMod2016.3.2

For daily emissions it is assumed to have no precipitation.

Truck Weight Assumptions

EMFAC Definition	EMFAC Category	GVWR (pounds)	GVWR (tons)	
Heavy Heavy-Duty Truck	HHDT	>33,000	17	<i>Assumed 33,000 pounds</i>
Medium Heavy-Duty Truck	MHDT	14,001-33,000	8	<i>Assumed average of 14,001 & 33,000 pounds</i>
Composite Heavy & Medium Heavy-Duty Truck	HHDT & MHDT	14,001-33,000+	13	<i>Assumed average of HHDT & MHDT pounds</i>

Source: EMFAC 2014

GVWR = Gross Vehicle Weight Rating

1 pound = 0.0005 US tons

Employee Vehicles Evaluated:

Employee Type	Average Weight (tons)
Passenger Vehicles	2.4

Reference:

Source: CalEEMod2016.3.2 (average vehicle weight = 2.4 tons)

Per AP-42, Section 13.2.1 (Paved Roads): The above equation calls for the average weight of all vehicles traveling the road. For example, if 99 percent of traffic on the road are 2 ton cars/trucks while the remaining 1 percent consists of 20 ton trucks, then the mean weight "W" is 2.2 tons. More specifically, the above equation is not intended to be used to calculate a separate emission factor for each vehicle weight class. Instead, only one emission factor should be calculated to represent the "fleet" average weight of all vehicles traveling the road.

Emission Factors	PM10 Paved Road (lb/VMT)	PM2.5 Paved Road (lb/VMT)	PM10 Paved Road (g/VMT)	PM2.5 Paved Road (g/VMT)
HHDT	0.0049	0.0012	2.2087	0.5421
MHDT	0.0023	0.0006	1.0239	0.2513
HHDT & MHDT	0.0037	0.0009	1.6800	0.4124
Passenger Vehicles	0.0007	0.0002	0.2998	0.0736
Average	0.0022	0.0005	0.9899	0.2430

$$RESTL_{CalEEMod} = \sum_{fueltype} (RESTL_EmissionRate_i \times Population_i) / \sum_{fueltype} Trip_i$$

$$DIURN_{CalEEMod} = \sum_{fueltype} (DIURN_EmissionRate_i \times Population_i) / \sum_{fueltype} Trip_i$$

RESTL	Resting Loss Evaporative	grams/vehicle/day	grams/trip
DIURN	Diurnal Loss Evaporative	grams/vehicle/day	grams/trip

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification:	Fairmount Avenue Fire Station
City:	San Diego
State:	California
Company:	City of San Diego
Type of Tank:	Horizontal Tank
Description:	Fairmount Avenue Fire Station Diesel Storage Tank

Tank Dimensions

Shell Length (ft):	16.43
Diameter (ft):	4.39
Volume (gallons):	416.07
Turnovers:	139.88
Net Throughput(gal/yr):	58,200.00
Is Tank Heated (y/n):	N
Is Tank Underground (y/n):	N

Paint Characteristics

Shell Color/Shade:	White/White
Shell Condition	Good

Breather Vent Settings

Vacuum Settings (psig):	-0.03
Pressure Settings (psig)	0.03

Meteorological Data used in Emissions Calculations: San Diego, California (Avg Atmospheric Pressure = 14.7 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

Fairmount Avenue Fire Station - Horizontal Tank
San Diego, California

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
		Avg.	Min.	Max.		Avg.	Min.	Max.					
Distillate fuel oil no. 2	All	66.35	62.08	70.62	64.22	0.0081	0.0070	0.0092	130.0000			188.00	Option 1: VP60 = .0065 VP70 = .009

TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

Fairmount Avenue Fire Station - Horizontal Tank
San Diego, California

Annual Emission Calculations	
Standing Losses (lb):	0.3070
Vapor Space Volume (cu ft):	158.4006
Vapor Density (lb/cu ft):	0.0002
Vapor Space Expansion Factor:	0.0285
Vented Vapor Saturation Factor:	0.9991
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	158.4006
Tank Diameter (ft):	4.3900
Effective Diameter (ft):	9.5855
Vapor Space Outage (ft):	2.1950
Tank Shell Length (ft):	16.4300
Vapor Density	
Vapor Density (lb/cu ft):	0.0002
Vapor Molecular Weight (lb/lb-mole):	130.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0081
Daily Avg. Liquid Surface Temp. (deg. R):	526.0165
Daily Average Ambient Temp. (deg. F):	64.1958
Ideal Gas Constant R (psia cuft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	523.8858
Tank Paint Solar Absorptance (Shell):	0.1700
Daily Total Solar Insulation Factor (Btu/sqft day):	1,593.0655
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0285
Daily Vapor Temperature Range (deg. R):	17.0810
Daily Vapor Pressure Range (psia):	0.0022
Breather Vent Press. Setting Range (psia):	0.0600
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0081
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):	0.0070
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia):	0.0092
Daily Min. Liquid Surface Temp. (deg R):	526.0165
Daily Max. Liquid Surface Temp. (deg R):	521.7463
Daily Ambient Temp. Range (deg. R):	530.2868
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9991
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0081
Vapor Space Outage (ft):	2.1950
Working Losses (lb):	
Working Losses (lb):	0.5552
Vapor Molecular Weight (lb/lb-mole):	130.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0081
Annual Net Throughput (gal/yr.):	58,200.0000
Annual Turnovers:	139.8803
Turnover Factor:	0.3811
Tank Diameter (ft):	4.3900
Working Loss Product Factor:	1.0000
Total Losses (lb):	0.8622

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

Fairmount Avenue Fire Station - Horizontal Tank
San Diego, California

	Losses(lbs)		
Components	Working Loss	Breathing Loss	Total Emissions
Distillate fuel oil no. 2	0.56	0.31	0.86

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Fairmount Ave Fire Station Construction HRA Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Fairmount Ave Fire Station Construction HRA
Construction Start Date	9/16/2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.70
Precipitation (days)	6.40
Location	32.724943472611784, -117.09384056311711
County	San Diego
City	San Diego
Air District	San Diego County APCD
Air Basin	San Diego
TAZ	6432
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	San Diego Gas & Electric
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
General Light Industry	22.4	1000sqft	0.52	22,443	3,858	—	—	Workers

Enclosed Parking with Elevator	1.60	1000sqft	0.04	1,605	0.00	—	—	—
Other Non-Asphalt Surfaces	3.64	1000sqft	0.08	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers

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.	10.7	10.7	8.87	9.68	0.02	0.39	2.07	2.47	0.36	1.00	1.36	—	1,742	1,742	0.07	0.02	0.02	1,749
Mit.	10.7	10.7	2.26	9.91	0.02	0.08	2.07	2.11	0.08	1.00	1.03	—	1,742	1,742	0.07	0.02	0.02	1,749
% Reduced	—	—	75%	-2%	—	78%	—	15%	78%	—	24%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.23	1.03	9.37	9.81	0.02	0.42	2.07	2.49	0.39	1.00	1.39	—	1,742	1,742	0.07	0.02	< 0.005	1,750
Mit.	0.17	0.17	1.02	9.91	0.02	0.03	2.07	2.11	0.03	1.00	1.03	—	1,742	1,742	0.07	0.02	< 0.005	1,750
% Reduced	86%	84%	89%	-1%	—	92%	—	16%	92%	—	25%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	0.79	0.66	5.90	6.64	0.01	0.26	1.27	1.53	0.24	0.61	0.85	—	1,201	1,201	0.05	0.01	0.01	1,206
Mit.	0.34	0.34	0.69	6.90	0.01	0.02	1.27	1.29	0.02	0.61	0.64	—	1,201	1,201	0.05	0.01	0.01	1,206
% Reduced	56%	49%	88%	-4%	—	91%	—	15%	91%	—	25%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.14	0.12	1.08	1.21	< 0.005	0.05	0.23	0.28	0.04	0.11	0.16	—	199	199	0.01	< 0.005	< 0.005	200
Mit.	0.06	0.06	0.13	1.26	< 0.005	< 0.005	0.23	0.24	< 0.005	0.11	0.12	—	199	199	0.01	< 0.005	< 0.005	200
% Reduced	56%	49%	88%	-4%	—	91%	—	15%	91%	—	25%	—	—	—	—	—	—	—

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.52	0.44	3.79	5.58	0.01	0.19	0.21	0.39	0.17	0.02	0.19	—	867	867	0.04	0.01	0.01	871
2027	1.19	1.00	8.87	9.68	0.02	0.39	2.07	2.47	0.36	1.00	1.36	—	1,742	1,742	0.07	0.02	0.02	1,749
2028	0.55	0.46	4.36	6.95	0.01	0.15	< 0.005	0.15	0.14	< 0.005	0.14	—	1,315	1,315	0.05	0.01	0.01	1,320
2029	10.7	10.7	4.17	6.94	0.01	0.15	< 0.005	0.15	0.14	< 0.005	0.14	—	1,315	1,315	0.05	0.01	0.01	1,320
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.23	1.03	9.37	9.81	0.02	0.42	2.07	2.49	0.39	1.00	1.39	—	1,742	1,742	0.07	0.02	< 0.005	1,750
2027	1.19	0.99	8.88	9.69	0.02	0.39	2.07	2.47	0.36	1.00	1.36	—	1,742	1,742	0.07	0.02	< 0.005	1,750
2028	0.55	0.46	4.37	6.95	0.01	0.15	< 0.005	0.15	0.14	< 0.005	0.14	—	1,315	1,315	0.05	0.01	< 0.005	1,320
2029	0.54	0.45	4.18	6.94	0.01	0.14	< 0.005	0.14	0.13	< 0.005	0.13	—	1,315	1,315	0.05	0.01	< 0.005	1,320
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.22	0.18	1.66	1.82	< 0.005	0.07	0.33	0.41	0.07	0.16	0.23	—	317	317	0.01	< 0.005	< 0.005	318

2027	0.79	0.66	5.90	6.64	0.01	0.26	1.27	1.53	0.24	0.61	0.85	—	1,201	1,201	0.05	0.01	0.01	1,206
2028	0.39	0.33	3.13	4.98	0.01	0.11	< 0.005	0.11	0.10	< 0.005	0.10	—	942	942	0.04	0.01	< 0.005	946
2029	0.44	0.42	1.17	1.87	< 0.005	0.04	< 0.005	0.04	0.04	< 0.005	0.04	—	342	342	0.01	< 0.005	< 0.005	344
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.04	0.03	0.30	0.33	< 0.005	0.01	0.06	0.07	0.01	0.03	0.04	—	52.5	52.5	< 0.005	< 0.005	< 0.005	52.7
2027	0.14	0.12	1.08	1.21	< 0.005	0.05	0.23	0.28	0.04	0.11	0.16	—	199	199	0.01	< 0.005	< 0.005	200
2028	0.07	0.06	0.57	0.91	< 0.005	0.02	< 0.005	0.02	0.02	< 0.005	0.02	—	156	156	0.01	< 0.005	< 0.005	157
2029	0.08	0.08	0.21	0.34	< 0.005	0.01	< 0.005	0.01	0.01	< 0.005	0.01	—	56.7	56.7	< 0.005	< 0.005	< 0.005	56.9

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.08	0.08	0.47	6.02	0.01	0.02	0.21	0.22	0.02	0.02	0.04	—	867	867	0.04	0.01	0.01	871
2027	0.17	0.17	1.00	9.91	0.02	0.03	2.07	2.11	0.03	1.00	1.03	—	1,742	1,742	0.07	0.02	0.02	1,749
2028	0.13	0.13	0.70	8.15	0.01	0.02	< 0.005	0.03	0.02	< 0.005	0.03	—	1,315	1,315	0.05	0.01	0.01	1,320
2029	10.7	10.7	2.26	8.15	0.01	0.08	< 0.005	0.09	0.08	< 0.005	0.08	—	1,315	1,315	0.05	0.01	0.01	1,320
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.17	0.17	1.02	9.91	0.02	0.03	2.07	2.11	0.03	1.00	1.03	—	1,742	1,742	0.07	0.02	< 0.005	1,750
2027	0.17	0.17	1.01	9.91	0.02	0.03	2.07	2.11	0.03	1.00	1.03	—	1,742	1,742	0.07	0.02	< 0.005	1,750
2028	0.13	0.13	0.71	8.15	0.01	0.02	< 0.005	0.03	0.02	< 0.005	0.03	—	1,315	1,315	0.05	0.01	< 0.005	1,320
2029	0.13	0.13	0.71	8.15	0.01	0.02	< 0.005	0.03	0.02	< 0.005	0.03	—	1,315	1,315	0.05	0.01	< 0.005	1,320
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.03	0.03	0.18	1.86	< 0.005	0.01	0.33	0.34	0.01	0.16	0.16	—	317	317	0.01	< 0.005	< 0.005	318
2027	0.12	0.12	0.69	6.90	0.01	0.02	1.27	1.29	0.02	0.61	0.64	—	1,201	1,201	0.05	0.01	0.01	1,206

2028	0.09	0.09	0.51	5.84	0.01	0.02	< 0.005	0.02	0.02	< 0.005	0.02	—	942	942	0.04	0.01	< 0.005	946
2029	0.34	0.34	0.30	2.15	< 0.005	0.01	< 0.005	0.01	0.01	< 0.005	0.01	—	342	342	0.01	< 0.005	< 0.005	344
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.01	0.01	0.03	0.34	< 0.005	< 0.005	0.06	0.06	< 0.005	0.03	0.03	—	52.5	52.5	< 0.005	< 0.005	< 0.005	52.7
2027	0.02	0.02	0.13	1.26	< 0.005	< 0.005	0.23	0.24	< 0.005	0.11	0.12	—	199	199	0.01	< 0.005	< 0.005	200
2028	0.02	0.02	0.09	1.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	156	156	0.01	< 0.005	< 0.005	157
2029	0.06	0.06	0.06	0.39	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	56.7	56.7	< 0.005	< 0.005	< 0.005	56.9

3. Construction Emissions Details

3.1. Site Preparation (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	0.52	0.44	3.74	5.54	0.01	0.19	—	0.19	0.17	—	0.17	—	858	858	0.03	0.01	—	861
Dust From Material Movement	—	—	—	—	—	—	0.21	0.21	—	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.52	0.44	3.74	5.54	0.01	0.19	—	0.19	0.17	—	0.17	—	858	858	0.03	0.01	—	861
Dust From Material Movement	—	—	—	—	—	—	0.21	0.21	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.20	0.30	< 0.005	0.01	—	0.01	0.01	—	0.01	—	47.0	47.0	< 0.005	< 0.005	—	47.2
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	< 0.005	0.04	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.79	7.79	< 0.005	< 0.005	—	7.81
Dust From Material Movement	—	—	—	—	—	—	< 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	—	3.70	3.70	< 0.005	< 0.005	< 0.005	3.88
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.11	5.11	< 0.005	< 0.005	< 0.005	5.39
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	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.16	5.16	< 0.005	< 0.005	< 0.005	5.44
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	—	0.20	0.20	< 0.005	< 0.005	< 0.005	0.21
Hauling	< 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	0.30
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	—	0.03	0.03	< 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	—	0.05	0.05	< 0.005	< 0.005	< 0.005	0.05

3.2. Site Preparation (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	0.08	0.08	0.42	5.99	0.01	0.02	—	0.02	0.02	—	0.02	—	858	858	0.03	0.01	—	861

Dust From Material Movement	—	—	—	—	—	—	0.21	0.21	—	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.08	0.42	5.99	0.01	0.02	—	0.02	0.02	—	0.02	—	858	858	0.03	0.01	—	861
Dust From Material Movement	—	—	—	—	—	—	0.21	0.21	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.33	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	47.0	47.0	< 0.005	< 0.005	—	47.2
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.79	7.79	< 0.005	< 0.005	—	7.81

Dust From Material Movement	—	—	—	—	—	—	< 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	—	3.70	3.70	< 0.005	< 0.005	< 0.005	3.88
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.11	5.11	< 0.005	< 0.005	< 0.005	5.39
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	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.16	5.16	< 0.005	< 0.005	< 0.005	5.44
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	—	0.20	0.20	< 0.005	< 0.005	< 0.005	0.21
Hauling	< 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	0.30
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	—	0.03	0.03	< 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	—	0.05	0.05	< 0.005	< 0.005	< 0.005	0.05

3.3. Grading (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	1.22	1.02	9.19	9.69	0.02	0.42	—	0.42	0.39	—	0.39	—	1,714	1,714	0.07	0.01	—	1,720
Dust From Material Movement	—	—	—	—	—	—	2.07	2.07	—	1.00	1.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19	0.16	1.42	1.50	< 0.005	0.06	—	0.06	0.06	—	0.06	—	265	265	0.01	< 0.005	—	266
Dust From Material Movement	—	—	—	—	—	—	0.32	0.32	—	0.15	0.15	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.26	0.27	< 0.005	0.01	—	0.01	0.01	—	0.01	—	43.9	43.9	< 0.005	< 0.005	—	44.0

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.05	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.45	7.45	< 0.005	< 0.005	< 0.005	7.82
Hauling	0.01	< 0.005	0.13	0.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	20.7	20.7	< 0.005	< 0.005	< 0.005	21.8
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	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.15	1.15	< 0.005	< 0.005	< 0.005	1.20
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.17	3.17	< 0.005	< 0.005	< 0.005	3.34
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	—	0.19	0.19	< 0.005	< 0.005	< 0.005	0.20
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.53	0.53	< 0.005	< 0.005	< 0.005	0.55

3.4. Grading (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	0.16	0.16	0.84	9.79	0.02	0.03	—	0.03	0.03	—	0.03	—	1,714	1,714	0.07	0.01	—	1,720
Dust From Material Movement	—	—	—	—	—	—	2.07	2.07	—	1.00	1.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.13	1.51	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	265	265	0.01	< 0.005	—	266
Dust From Material Movement	—	—	—	—	—	—	0.32	0.32	—	0.15	0.15	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.28	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	43.9	43.9	< 0.005	< 0.005	—	44.0
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.05	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.45	7.45	< 0.005	< 0.005	< 0.005	7.82
Hauling	0.01	< 0.005	0.13	0.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	20.7	20.7	< 0.005	< 0.005	< 0.005	21.8
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	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.15	1.15	< 0.005	< 0.005	< 0.005	1.20
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.17	3.17	< 0.005	< 0.005	< 0.005	3.34
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	—	0.19	0.19	< 0.005	< 0.005	< 0.005	0.20
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.53	0.53	< 0.005	< 0.005	< 0.005	0.55

3.5. Grading (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	1.18	0.99	8.70	9.56	0.02	0.39	—	0.39	0.36	—	0.36	—	1,715	1,715	0.07	0.01	—	1,720
Dust From Material Movement	—	—	—	—	—	—	2.07	2.07	—	1.00	1.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.18	0.99	8.70	9.56	0.02	0.39	—	0.39	0.36	—	0.36	—	1,715	1,715	0.07	0.01	—	1,720
Dust From Material Movement	—	—	—	—	—	—	2.07	2.07	—	1.00	1.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	0.61	5.33	5.86	0.01	0.24	—	0.24	0.22	—	0.22	—	1,050	1,050	0.04	0.01	—	1,054
Dust From Material Movement	—	—	—	—	—	—	1.27	1.27	—	0.61	0.61	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.13	0.11	0.97	1.07	< 0.005	0.04	—	0.04	0.04	—	0.04	—	174	174	0.01	< 0.005	—	174
Dust From Material Movement	—	—	—	—	—	—	0.23	0.23	—	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
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	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.26	7.26	< 0.005	< 0.005	0.01	7.63
Hauling	0.01	0.01	0.12	0.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	20.1	20.1	< 0.005	< 0.005	0.01	21.1
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	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.33	7.33	< 0.005	< 0.005	< 0.005	7.69
Hauling	0.01	< 0.005	0.13	0.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	20.3	20.3	< 0.005	< 0.005	< 0.005	21.4
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	—	4.47	4.47	< 0.005	< 0.005	< 0.005	4.69
Hauling	0.01	< 0.005	0.08	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	12.3	12.3	< 0.005	< 0.005	< 0.005	13.0
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	—	0.74	0.74	< 0.005	< 0.005	< 0.005	0.78
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.04	2.04	< 0.005	< 0.005	< 0.005	2.15

3.6. Grading (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	0.16	0.16	0.84	9.79	0.02	0.03	—	0.03	0.03	—	0.03	—	1,715	1,715	0.07	0.01	—	1,720
Dust From Material Movement	—	—	—	—	—	—	2.07	2.07	—	1.00	1.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.16	0.84	9.79	0.02	0.03	—	0.03	0.03	—	0.03	—	1,715	1,715	0.07	0.01	—	1,720
Dust From Material Movement	—	—	—	—	—	—	2.07	2.07	—	1.00	1.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.10	0.51	6.00	0.01	0.02	—	0.02	0.02	—	0.02	—	1,050	1,050	0.04	0.01	—	1,054

Dust From Material Movement	—	—	—	—	—	—	1.27	1.27	—	0.61	0.61	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.09	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	174	174	0.01	< 0.005	—	174
Dust From Material Movement	—	—	—	—	—	—	0.23	0.23	—	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
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	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.26	7.26	< 0.005	< 0.005	0.01	7.63
Hauling	0.01	0.01	0.12	0.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	20.1	20.1	< 0.005	< 0.005	0.01	21.1
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	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.33	7.33	< 0.005	< 0.005	< 0.005	7.69
Hauling	0.01	< 0.005	0.13	0.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	20.3	20.3	< 0.005	< 0.005	< 0.005	21.4
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	—	4.47	4.47	< 0.005	< 0.005	< 0.005	4.69

Hauling	0.01	< 0.005	0.08	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	12.3	12.3	< 0.005	< 0.005	< 0.005	13.0
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	—	0.74	0.74	< 0.005	< 0.005	< 0.005	0.78
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.04	2.04	< 0.005	< 0.005	< 0.005	2.15

3.7. Building Construction (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	0.57	0.48	4.56	6.90	0.01	0.17	—	0.17	0.15	—	0.15	—	1,304	1,304	0.05	0.01	—	1,309
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.46	0.70	< 0.005	0.02	—	0.02	0.02	—	0.02	—	133	133	0.01	< 0.005	—	133
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	22.0	22.0	< 0.005	< 0.005	—	22.1
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	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	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.11	1.11	< 0.005	< 0.005	< 0.005	1.17
Hauling	0.00	0.00	0.00	0.00	0.00	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	—	0.18	0.18	< 0.005	< 0.005	< 0.005	0.19
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

3.8. Building Construction (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	0.12	0.12	0.64	8.10	0.01	0.02	—	0.02	0.02	—	0.02	—	1,304	1,304	0.05	0.01	—	1,309
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.07	0.82	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	133	133	0.01	< 0.005	—	133
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	22.0	22.0	< 0.005	< 0.005	—	22.1
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	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	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.11	1.11	< 0.005	< 0.005	< 0.005	1.17
Hauling	0.00	0.00	0.00	0.00	0.00	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	—	0.18	0.18	< 0.005	< 0.005	< 0.005	0.19
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

3.9. Building Construction (2028) - 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	0.55	0.46	4.30	6.91	0.01	0.15	—	0.15	0.14	—	0.14	—	1,305	1,305	0.05	0.01	—	1,309
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.55	0.46	4.30	6.91	0.01	0.15	—	0.15	0.14	—	0.14	—	1,305	1,305	0.05	0.01	—	1,309
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.39	0.33	3.08	4.95	0.01	0.11	—	0.11	0.10	—	0.10	—	934	934	0.04	0.01	—	938
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.56	0.90	< 0.005	0.02	—	0.02	0.02	—	0.02	—	155	155	0.01	< 0.005	—	155
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	—	10.7	10.7	< 0.005	< 0.005	0.01	11.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	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	—	10.8	10.8	< 0.005	< 0.005	< 0.005	11.3
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	0.00	0.00	0.00	0.00	0.00	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	0.05	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.69	7.69	< 0.005	< 0.005	< 0.005	8.08
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.27	1.27	< 0.005	< 0.005	< 0.005	1.34
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

3.10. Building Construction (2028) - 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	0.12	0.12	0.64	8.10	0.01	0.02	—	0.02	0.02	—	0.02	—	1,305	1,305	0.05	0.01	—	1,309
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.12	0.12	0.64	8.10	0.01	0.02	—	0.02	0.02	—	0.02	—	1,305	1,305	0.05	0.01	—	1,309
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.09	0.09	0.46	5.80	0.01	0.02	—	0.02	0.02	—	0.02	—	934	934	0.04	0.01	—	938
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.08	1.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	155	155	0.01	< 0.005	—	155
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	—	10.7	10.7	< 0.005	< 0.005	0.01	11.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	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	—	10.8	10.8	< 0.005	< 0.005	< 0.005	11.3
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	0.00	0.00	0.00	0.00	0.00	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	0.05	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.69	7.69	< 0.005	< 0.005	< 0.005	8.08
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.27	1.27	< 0.005	< 0.005	< 0.005	1.34
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

3.11. Building Construction (2029) - 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 Equipm ent	0.53	0.45	4.11	6.89	0.01	0.14	—	0.14	0.13	—	0.13	—	1,304	1,304	0.05	0.01	—	1,309
Onsite truck	0.00	0.00	0.00	0.00	0.00	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 Equipm ent	0.53	0.45	4.11	6.89	0.01	0.14	—	0.14	0.13	—	0.13	—	1,304	1,304	0.05	0.01	—	1,309
Onsite truck	0.00	0.00	0.00	0.00	0.00	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 ent	0.12	0.10	0.92	1.54	< 0.005	0.03	—	0.03	0.03	—	0.03	—	291	291	0.01	< 0.005	—	292
Onsite truck	0.00	0.00	0.00	0.00	0.00	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 ent	0.02	0.02	0.17	0.28	< 0.005	0.01	—	0.01	0.01	—	0.01	—	48.2	48.2	< 0.005	< 0.005	—	48.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	—	10.5	10.5	< 0.005	< 0.005	0.01	11.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.6	10.6	< 0.005	< 0.005	< 0.005	11.1
Hauling	0.00	0.00	0.00	0.00	0.00	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	—	2.35	2.35	< 0.005	< 0.005	< 0.005	2.47
Hauling	0.00	0.00	0.00	0.00	0.00	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	—	0.39	0.39	< 0.005	< 0.005	< 0.005	0.41
Hauling	0.00	0.00	0.00	0.00	0.00	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 (2029) - 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	0.12	0.12	0.64	8.10	0.01	0.02	—	0.02	0.02	—	0.02	—	1,304	1,304	0.05	0.01	—	1,309
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.12	0.12	0.64	8.10	0.01	0.02	—	0.02	0.02	—	0.02	—	1,304	1,304	0.05	0.01	—	1,309
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.14	1.81	< 0.005	0.01	—	0.01	0.01	—	0.01	—	291	291	0.01	< 0.005	—	292
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.03	0.33	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	48.2	48.2	< 0.005	< 0.005	—	48.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	—	10.5	10.5	< 0.005	< 0.005	0.01	11.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

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	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.6	10.6	< 0.005	< 0.005	< 0.005	11.1
Hauling	0.00	0.00	0.00	0.00	0.00	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	—	2.35	2.35	< 0.005	< 0.005	< 0.005	2.47
Hauling	0.00	0.00	0.00	0.00	0.00	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	—	0.39	0.39	< 0.005	< 0.005	< 0.005	0.41
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Paving (2029) - 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	0.55	0.46	3.98	5.31	0.01	0.15	—	0.15	0.14	—	0.14	—	823	823	0.03	0.01	—	826
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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.03	0.03	0.22	0.29	< 0.005	0.01	—	0.01	0.01	—	0.01	—	45.1	45.1	< 0.005	< 0.005	—	45.2
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.01	< 0.005	0.04	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.46	7.46	< 0.005	< 0.005	—	7.49
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	—	3.49	3.49	< 0.005	< 0.005	< 0.005	3.67
Hauling	0.00	0.00	0.00	0.00	0.00	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	—	0.19	0.19	< 0.005	< 0.005	< 0.005	0.20

Hauling	0.00	0.00	0.00	0.00	0.00	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	—	0.03	0.03	< 0.005	< 0.005	< 0.005	0.03
Hauling	0.00	0.00	0.00	0.00	0.00	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. Paving (2029) - 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	0.37	0.32	2.24	5.55	0.01	0.08	—	0.08	0.08	—	0.08	—	823	823	0.03	0.01	—	826
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.12	0.30	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	45.1	45.1	< 0.005	< 0.005	—	45.2
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	< 0.005	0.02	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.46	7.46	< 0.005	< 0.005	—	7.49
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	—	3.49	3.49	< 0.005	< 0.005	< 0.005	3.67
Hauling	0.00	0.00	0.00	0.00	0.00	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	—	0.19	0.19	< 0.005	< 0.005	< 0.005	0.20
Hauling	0.00	0.00	0.00	0.00	0.00	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	—	0.03	0.03	< 0.005	< 0.005	< 0.005	0.03
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Architectural Coating (2029) - 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	0.12	0.10	0.79	1.11	< 0.005	0.01	—	0.01	0.01	—	0.01	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	10.6	10.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.66	3.66	< 0.005	< 0.005	—	3.67
Architectural Coatings	0.29	0.29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.61	0.61	< 0.005	< 0.005	—	0.61
Architectural Coatings	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
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	—	3.49	3.49	< 0.005	< 0.005	< 0.005	3.67
Hauling	0.00	0.00	0.00	0.00	0.00	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

3.16. Architectural Coating (2029) - 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	0.12	0.10	0.79	1.11	< 0.005	0.01	—	0.01	0.01	—	0.01	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	10.6	10.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.66	3.66	< 0.005	< 0.005	—	3.67
Architectural Coatings	0.29	0.29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.61	0.61	< 0.005	< 0.005	—	0.61
Architectural Coatings	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
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	—	3.49	3.49	< 0.005	< 0.005	< 0.005	3.67
Hauling	0.00	0.00	0.00	0.00	0.00	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

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	9/16/2026	10/13/2026	5.00	20.0	—
Grading	Grading	10/14/2026	11/9/2027	5.00	280	—
Building Construction	Building Construction	11/10/2027	4/24/2029	5.00	380	—
Paving	Paving	4/25/2029	5/22/2029	5.00	20.0	—
Architectural Coating	Architectural Coating	5/23/2029	6/5/2029	5.00	10.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Graders	Diesel	Average	1.00	8.00	148	0.41
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Average	1.00	8.00	84.0	0.37
Grading	Graders	Diesel	Average	1.00	6.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	6.00	367	0.40
Grading	Tractors/Loaders/Back hoes	Diesel	Average	1.00	7.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	4.00	367	0.29
Building Construction	Forklifts	Diesel	Average	2.00	6.00	82.0	0.20
Building Construction	Tractors/Loaders/Back hoes	Diesel	Average	2.00	8.00	84.0	0.37

Paving	Cement and Mortar Mixers	Diesel	Average	4.00	6.00	10.0	0.56
Paving	Pavers	Diesel	Average	1.00	7.00	81.0	0.42
Paving	Rollers	Diesel	Average	1.00	7.00	36.0	0.38
Paving	Tractors/Loaders/Back hoes	Diesel	Average	1.00	7.00	84.0	0.37
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Grading	Graders	Diesel	Tier 4 Final	1.00	6.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	6.00	367	0.40
Grading	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	1.00	7.00	84.0	0.37
Building Construction	Cranes	Diesel	Tier 4 Final	1.00	4.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 4 Final	2.00	6.00	82.0	0.20
Building Construction	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Paving	Cement and Mortar Mixers	Diesel	Average	4.00	6.00	10.0	0.56
Paving	Pavers	Diesel	Tier 4 Final	1.00	7.00	81.0	0.42
Paving	Rollers	Diesel	Average	1.00	7.00	36.0	0.38
Paving	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	1.00	7.00	84.0	0.37
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	0.00	0.00	LDA,LDT1,LDT2
Site Preparation	Vendor	2.00	0.25	HHDT,MHDT
Site Preparation	Hauling	2.00	0.25	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	0.00	0.00	LDA,LDT1,LDT2
Grading	Vendor	4.00	0.25	HHDT,MHDT
Grading	Hauling	8.00	0.25	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	0.00	0.00	LDA,LDT1,LDT2
Building Construction	Vendor	6.00	0.25	HHDT,MHDT
Building Construction	Hauling	0.00	0.25	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	0.00	0.00	LDA,LDT1,LDT2
Paving	Vendor	2.00	0.25	HHDT,MHDT
Paving	Hauling	0.00	0.25	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	0.00	0.00	LDA,LDT1,LDT2
Architectural Coating	Vendor	2.00	0.25	HHDT,MHDT
Architectural Coating	Hauling	0.00	0.25	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	0.00	0.00	LDA,LDT1,LDT2
Site Preparation	Vendor	2.00	0.25	HHDT,MHDT
Site Preparation	Hauling	2.00	0.25	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	0.00	0.00	LDA,LDT1,LDT2
Grading	Vendor	4.00	0.25	HHDT,MHDT
Grading	Hauling	8.00	0.25	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	0.00	0.00	LDA,LDT1,LDT2
Building Construction	Vendor	6.00	0.25	HHDT,MHDT
Building Construction	Hauling	0.00	0.25	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	0.00	0.00	LDA,LDT1,LDT2
Paving	Vendor	2.00	0.25	HHDT,MHDT
Paving	Hauling	0.00	0.25	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	0.00	0.00	LDA,LDT1,LDT2
Architectural Coating	Vendor	2.00	0.25	HHDT,MHDT
Architectural Coating	Hauling	0.00	0.25	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	33,743	11,230	314

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	—	—	10.0	0.00	—
Grading	3,783	—	4.50	0.00	—
Paving	0.00	0.00	0.00	0.00	0.12

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
General Light Industry	0.00	0%
Enclosed Parking with Elevator	0.04	100%
Other Non-Asphalt Surfaces	0.08	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	0.00	589	0.03	< 0.005
2027	0.00	589	0.03	< 0.005
2028	0.00	589	0.03	< 0.005
2029	0.00	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
--------------------------	----------------------	---------------	-------------

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

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	8.07	annual days of extreme heat
Extreme Precipitation	2.40	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.81	annual hectares burned

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

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

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (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	32.1
AQ-PM	50.5
AQ-DPM	84.0
Drinking Water	29.0
Lead Risk Housing	73.4
Pesticides	0.00
Toxic Releases	42.7
Traffic	72.3
Effect Indicators	—
CleanUp Sites	76.7
Groundwater	52.0
Haz Waste Facilities/Generators	93.8
Impaired Water Bodies	90.1
Solid Waste	80.0
Sensitive Population	—
Asthma	61.3
Cardio-vascular	23.2
Low Birth Weights	53.5
Socioeconomic Factor Indicators	—
Education	61.5
Housing	33.7
Linguistic	61.1

Poverty	50.9
Unemployment	67.5

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	42.52534326
Employed	11.51032978
Median HI	39.2403439
Education	—
Bachelor's or higher	43.80854613
High school enrollment	100
Preschool enrollment	32.22122418
Transportation	—
Auto Access	45.25856538
Active commuting	28.37161555
Social	—
2-parent households	18.2599769
Voting	48.76170923
Neighborhood	—
Alcohol availability	42.25587065
Park access	81.35506224
Retail density	48.23559605
Supermarket access	65.99512383
Tree canopy	44.30899525
Housing	—
Homeownership	53.79186449

Housing habitability	70.98678301
Low-inc homeowner severe housing cost burden	52.82946234
Low-inc renter severe housing cost burden	69.36994739
Uncrowded housing	52.91928654
Health Outcomes	—
Insured adults	32.06723983
Arthritis	34.9
Asthma ER Admissions	24.3
High Blood Pressure	25.9
Cancer (excluding skin)	42.8
Asthma	43.1
Coronary Heart Disease	37.1
Chronic Obstructive Pulmonary Disease	42.5
Diagnosed Diabetes	26.4
Life Expectancy at Birth	18.2
Cognitively Disabled	15.2
Physically Disabled	16.0
Heart Attack ER Admissions	64.3
Mental Health Not Good	48.5
Chronic Kidney Disease	14.8
Obesity	46.5
Pedestrian Injuries	90.0
Physical Health Not Good	49.1
Stroke	22.5
Health Risk Behaviors	—
Binge Drinking	50.7
Current Smoker	52.6
No Leisure Time for Physical Activity	41.6

Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	71.1
Elderly	29.3
English Speaking	57.3
Foreign-born	43.2
Outdoor Workers	80.7
Climate Change Adaptive Capacity	—
Impervious Surface Cover	33.9
Traffic Density	88.3
Traffic Access	68.1
Other Indices	—
Hardship	56.0
Other Decision Support	—
2016 Voting	39.1

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	71.0
Healthy Places Index Score for Project Location (b)	34.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Based on applicant provided information.
Land Use	Based on applicant provided information and updated site plan.
Construction: Dust From Material Movement	Based on applicant provided information and compliance with SDAPCD Rule 55.
Construction: Trips and VMT	Based on applicant provided information. Assumed 0.25-mile trip length for diesel trucks. Assumed worker vehicles are gasoline.
Construction: Architectural Coatings	No-VOC exterior and No-VOC interior paint will be used during construction.
Operations: Architectural Coatings	No-VOC interior and exterior paint will be used.
Operations: Energy Use	The project applicant has committed to no natural gas.
Operations: Emergency Generators and Fire Pumps	Based on SDAPCD permitted maintenance and testing hours per year.
Operations: Vehicle Data	Based on Dudek trip generation.
Operations: Fleet Mix	Separated fleet mix into worker trips and truck trips.

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 11/30/2023
** File: C:\Users\anoll\OneDrive - Dudek\Desktop\HARP2\Fairmount Fire
Station\AERMOD\Fairmount Fire Station.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Users\anoll\OneDrive - Dudek\Desktop\HARP2\Fairmount Fire Station
  MODELOPT DFAULT CONC
  AVERTIME 1 PERIOD
  POLLUTID PM_10
  RUNORNOT RUN
  ERRORFIL "Fairmount Fire Station.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
** PREFIX
** Length of Side = 8.60
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 6.80
** SZINIT = 3.16
** Nodes = 10
** 491221.137, 3620822.892, 52.67, 3.40, 4.00
** 491206.573, 3620822.617, 51.23, 3.40, 4.00
** 491190.634, 3620810.801, 46.97, 3.40, 4.00

```

** 491190.909, 3620791.290, 50.94, 3.40, 4.00
 ** 491221.687, 3620790.740, 57.74, 3.40, 4.00
 ** 491221.687, 3620813.549, 53.10, 3.40, 4.00
 ** 491209.596, 3620813.824, 51.94, 3.40, 4.00
 ** 491199.978, 3620806.129, 53.64, 3.40, 4.00
 ** 491199.978, 3620799.534, 53.65, 3.40, 4.00
 ** 491212.344, 3620799.534, 56.13, 3.40, 4.00

** -----
 LOCATION L0000001 VOLUME 491216.838 3620822.811 51.75
 LOCATION L0000002 VOLUME 491208.240 3620822.649 49.85
 LOCATION L0000003 VOLUME 491201.004 3620818.489 48.62
 LOCATION L0000004 VOLUME 491194.095 3620813.367 47.66
 LOCATION L0000005 VOLUME 491190.695 3620806.510 48.05
 LOCATION L0000006 VOLUME 491190.816 3620797.911 49.75
 LOCATION L0000007 VOLUME 491192.887 3620791.254 51.59
 LOCATION L0000008 VOLUME 491201.486 3620791.101 53.90
 LOCATION L0000009 VOLUME 491210.085 3620790.947 56.21
 LOCATION L0000010 VOLUME 491218.683 3620790.794 57.55
 LOCATION L0000011 VOLUME 491221.687 3620796.336 56.57
 LOCATION L0000012 VOLUME 491221.687 3620804.936 55.12
 LOCATION L0000013 VOLUME 491221.687 3620813.536 53.67
 LOCATION L0000014 VOLUME 491213.102 3620813.744 52.88
 LOCATION L0000015 VOLUME 491205.619 3620810.643 51.37
 LOCATION L0000016 VOLUME 491199.978 3620804.754 50.92
 LOCATION L0000017 VOLUME 491203.357 3620799.534 52.82
 LOCATION L0000018 VOLUME 491211.957 3620799.534 55.15

** End of LINE VOLUME Source ID = SLINE1

** Source Parameters **

** LINE VOLUME Source ID = SLINE1

SRCPARAM L0000001	0.0555555556	3.40	4.00	3.16
SRCPARAM L0000002	0.0555555556	3.40	4.00	3.16
SRCPARAM L0000003	0.0555555556	3.40	4.00	3.16
SRCPARAM L0000004	0.0555555556	3.40	4.00	3.16
SRCPARAM L0000005	0.0555555556	3.40	4.00	3.16
SRCPARAM L0000006	0.0555555556	3.40	4.00	3.16
SRCPARAM L0000007	0.0555555556	3.40	4.00	3.16
SRCPARAM L0000008	0.0555555556	3.40	4.00	3.16
SRCPARAM L0000009	0.0555555556	3.40	4.00	3.16
SRCPARAM L0000010	0.0555555556	3.40	4.00	3.16
SRCPARAM L0000011	0.0555555556	3.40	4.00	3.16
SRCPARAM L0000012	0.0555555556	3.40	4.00	3.16
SRCPARAM L0000013	0.0555555556	3.40	4.00	3.16
SRCPARAM L0000014	0.0555555556	3.40	4.00	3.16
SRCPARAM L0000015	0.0555555556	3.40	4.00	3.16
SRCPARAM L0000016	0.0555555556	3.40	4.00	3.16
SRCPARAM L0000017	0.0555555556	3.40	4.00	3.16
SRCPARAM L0000018	0.0555555556	3.40	4.00	3.16

** -----

SRCGROUP ALL

SO FINISHED

```

**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
  INCLUDED "Fairmount Fire Station.rou"
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
  SURFFILE "..\Met Data\Lindbergh_2019_2021_v22122.SFC"
  PROFILE  "..\Met Data\Lindbergh_2019_2021_v22122.PFL"
  SURFDATA 23188 2019 SAN_DIEGO/LINDBERGH_FIELD
  UAIRDATA 3190 2019
  PROFBASE 4.6 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
  RECTABLE ALLAVE 1ST
  RECTABLE 1 1ST
** Auto-Generated Plotfiles
  PLOTFILE 1 ALL 1ST "Fairmount Fire Station.AD\01H1GALL.PLT" 31
  PLOTFILE PERIOD ALL "Fairmount Fire Station.AD\PE00GALL.PLT" 32
  SUMMFILE "Fairmount Fire Station.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 120 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
0.50
ME W187 120 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

*** SETUP Finishes Successfully ***

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*** AERMET - VERSION 22112 *** ***
*** 15:19:56

PAGE 1

*** MODELOPTs: RegDFAULT CONC ELEV RURAL 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 RURAL Dispersion Only.
- * 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: 18 Source(s); 1 Source Group(s); and 544
Receptor(s)

with: 0 POINT(s), including

0 POINTCAP(s) and 0 POINTHOR(s)
 and: 18 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) = 4.60 ; Decay
 Coef. = 0.000 ; Rot. Angle = 0.0
 Emission Units = GRAMS/SEC ;
 Emission Rate Unit Factor = 0.10000E+07
 Output Units = MICROGRAMS/M**3

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

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: Fairmount Fire Station.err

**File for Summary of Results: Fairmount Fire Station.sum

^ *** AERMOD - VERSION 22112 *** *** C:\Users\anol1\OneDrive -
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 *** AERMET - VERSION 22112 *** ***
 *** 15:19:56

*** MODELOPTs: RegDFAULT CONC ELEV RURAL 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)	(METERS)
ID		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)								

L0000001	0	0.55556E-01	491216.8	3620822.8	51.8	3.40	4.00
3.16 NO							
L0000002	0	0.55556E-01	491208.2	3620822.6	49.8	3.40	4.00
3.16 NO							
L0000003	0	0.55556E-01	491201.0	3620818.5	48.6	3.40	4.00
3.16 NO							
L0000004	0	0.55556E-01	491194.1	3620813.4	47.7	3.40	4.00
3.16 NO							
L0000005	0	0.55556E-01	491190.7	3620806.5	48.0	3.40	4.00
3.16 NO							
L0000006	0	0.55556E-01	491190.8	3620797.9	49.8	3.40	4.00
3.16 NO							
L0000007	0	0.55556E-01	491192.9	3620791.3	51.6	3.40	4.00
3.16 NO							
L0000008	0	0.55556E-01	491201.5	3620791.1	53.9	3.40	4.00
3.16 NO							
L0000009	0	0.55556E-01	491210.1	3620790.9	56.2	3.40	4.00
3.16 NO							
L0000010	0	0.55556E-01	491218.7	3620790.8	57.5	3.40	4.00
3.16 NO							
L0000011	0	0.55556E-01	491221.7	3620796.3	56.6	3.40	4.00
3.16 NO							
L0000012	0	0.55556E-01	491221.7	3620804.9	55.1	3.40	4.00
3.16 NO							
L0000013	0	0.55556E-01	491221.7	3620813.5	53.7	3.40	4.00
3.16 NO							
L0000014	0	0.55556E-01	491213.1	3620813.7	52.9	3.40	4.00
3.16 NO							
L0000015	0	0.55556E-01	491205.6	3620810.6	51.4	3.40	4.00
3.16 NO							
L0000016	0	0.55556E-01	491200.0	3620804.8	50.9	3.40	4.00
3.16 NO							
L0000017	0	0.55556E-01	491203.4	3620799.5	52.8	3.40	4.00
3.16 NO							
L0000018	0	0.55556E-01	491212.0	3620799.5	55.1	3.40	4.00

3.16 NO

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL 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 ,

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

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

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

491380.6, 491390.3, 491400.0, 491409.7, 491419.3, 491429.0, 491438.7,
491448.4, 491458.1, 491467.8,
491477.5, 491487.2, 491496.9, 491506.5, 491516.2, 491525.9, 491535.6,
491545.3, 491555.0, 491564.7,
491574.4,

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

3620526.2, 3620544.2, 3620562.3, 3620580.3, 3620598.4, 3620616.4, 3620634.5,
3620652.5, 3620670.5, 3620688.6,

3620706.6, 3620724.6, 3620742.7, 3620760.7, 3620778.8, 3620796.8, 3620814.9,
3620832.9, 3620850.9, 3620869.0,
3620887.0,

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*** AERMET - VERSION 22112 *** ***
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)					X-COORD (METERS)	
	491380.58	491390.27	491399.96	491409.65	491419.34	
491429.03	491438.72	491448.41	491458.10			

- - - - -
- - - - -

3620887.01		64.60	64.90	65.20	65.20	65.30
65.60	66.00	66.40	66.70			
3620868.97		65.70	66.20	66.50	66.80	67.10
67.30	67.40	67.60	67.70			
3620850.93		66.10	66.80	67.40	67.70	68.00
68.20	68.20	68.30	68.40			
3620832.89		68.00	68.80	69.40	69.60	69.80
69.90	70.00	70.00	70.00			
3620814.85		69.70	70.50	71.20	71.30	71.40
71.50	71.50	71.50	71.40			
3620796.81		71.00	71.80	72.40	72.50	72.60
72.60	72.60	72.60	72.60			
3620778.77		71.70	72.40	72.90	73.00	73.10
73.20	73.20	73.20	73.30			
3620760.73		72.00	72.60	73.00	73.10	73.20
73.30	73.40	73.50	73.60			
3620742.69		72.10	72.60	72.90	73.00	73.00
73.10	73.20	73.30	73.50			
3620724.65		72.10	72.40	72.70	72.70	72.70
72.80	72.90	73.00	73.30			
3620706.61		71.70	71.90	72.00	72.10	72.20
72.30	72.40	72.50	72.90			
3620688.57		71.30	71.40	71.40	71.50	71.50
71.70	71.90	72.10	72.50			
3620670.53		70.90	70.90	70.90	70.90	70.80
71.10	71.40	71.80	72.10			
3620652.49		70.70	70.60	70.60	70.60	70.60
70.80	71.10	71.40	71.80			

3620634.45	70.40	70.40	70.40	70.40	70.40	70.40
70.60	70.80	71.10	71.40			
3620616.41	70.20	70.20	70.10	70.20	70.20	70.20
70.40	70.70	70.90	71.20			
3620598.37	70.00	69.90	69.90	69.90	69.90	70.00
70.20	70.40	70.70	70.90			
3620580.33	69.90	69.70	69.60	69.70	69.70	69.80
69.90	70.10	70.30	70.60			
3620562.29	70.00	69.80	69.70	69.70	69.70	69.80
69.90	70.10	70.30	70.50			
3620544.25	70.20	70.10	70.10	70.00	69.90	
69.90	70.20	70.40	70.50			
3620526.21	71.60	71.50	71.30	71.10	70.80	
70.70	70.80	70.90	70.90			

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	491467.79	491477.48	491487.17	491496.86	491506.55
491516.24	491525.93	491535.62	491545.31		

3620887.01	67.10	67.40	67.80	68.10	68.20
68.10	68.00	67.80	67.60		
3620868.97	67.90	68.10	68.30	68.50	68.70
69.00	69.20	69.30	69.40		
3620850.93	68.60	68.70	68.80	68.90	69.10
69.40	69.70	69.70	69.60		
3620832.89	70.00	70.00	69.90	69.90	70.00
70.10	70.30	70.40	70.40		
3620814.85	71.30	71.20	71.00	70.90	70.80
70.90	70.90	71.00	71.10		
3620796.81	72.50	72.40	72.10	71.80	71.70
71.60	71.50	71.50	71.50		
3620778.77	73.30	73.30	73.00	72.70	72.50
72.30	72.10	72.10	72.10		
3620760.73	73.70	73.80	73.60	73.50	73.30
73.10	72.90	72.80	72.70		
3620742.69	73.70	73.90	73.80	73.80	73.80

73.70	73.70	73.40	73.10
3620724.65	73.60	73.80	73.90
74.20	74.30	74.00	73.60
3620706.61	73.30	73.60	73.80
74.30	74.50	74.20	73.90
3620688.57	72.90	73.30	73.50
74.10	74.40	74.30	74.10
3620670.53	72.50	72.80	73.00
73.80	74.00	74.00	74.00
3620652.49	72.10	72.40	72.60
73.30	73.60	73.70	73.80
3620634.45	71.80	72.00	72.20
72.90	73.20	73.40	73.50
3620616.41	71.50	71.70	71.90
72.50	72.70	73.00	73.20
3620598.37	71.20	71.40	71.50
72.10	72.30	72.60	72.90
3620580.33	70.90	71.10	71.20
71.70	72.10	72.40	72.70
3620562.29	70.70	70.90	70.90
71.50	71.80	72.10	72.50
3620544.25	70.60	70.70	70.80
71.30	71.60	71.90	72.30
3620526.21	71.00	71.10	71.10
71.70	72.00	72.20	72.40

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	491555.00	491564.69	491574.38
3620887.01	67.20	66.10	65.00
3620868.97	69.40	68.70	68.00
3620850.93	69.50	69.70	69.90
3620832.89	70.40	70.30	70.20
3620814.85	71.20	70.90	70.60
3620796.81	71.50	71.30	71.00
3620778.77	72.00	71.70	71.40

3620760.73	72.50	72.10	71.70
3620742.69	72.80	72.40	71.90
3620724.65	73.10	72.60	72.10
3620706.61	73.60	73.00	72.30
3620688.57	73.90	73.20	72.60
3620670.53	73.90	73.30	72.80
3620652.49	73.80	73.40	73.00
3620634.45	73.60	73.40	73.20
3620616.41	73.40	73.30	73.30
3620598.37	73.20	73.30	73.40
3620580.33	73.00	73.20	73.40
3620562.29	72.80	73.10	73.40
3620544.25	72.60	72.90	73.30
3620526.21	72.60	72.90	73.20

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)				
	491380.58	491390.27	491399.96	491409.65	491419.34
491429.03	491438.72	491448.41	491458.10		

3620887.01	64.60	65.80	65.80	65.20	66.60
66.60	66.00	67.10	66.70		
3620868.97	65.70	66.20	66.50	66.80	67.10
67.30	67.40	67.60	67.70		
3620850.93	72.90	70.80	70.80	71.20	71.20
68.20	68.20	68.30	68.40		
3620832.89	72.90	70.80	70.80	69.60	69.80
69.90	70.00	70.00	70.00		
3620814.85	72.90	70.50	71.20	71.30	71.40
71.50	71.50	71.50	71.40		
3620796.81	72.90	72.90	72.40	72.50	72.60
72.60	72.60	72.60	72.60		
3620778.77	71.70	72.40	72.90	73.00	73.10
73.20	73.20	73.20	73.30		
3620760.73	72.00	72.60	73.00	73.10	73.20
73.30	73.40	73.50	73.60		
3620742.69	72.10	72.60	72.90	73.00	73.00

73.10	73.20	73.30	73.50			
3620724.65 |	72.10	72.40	72.70	72.70	72.70	72.70
72.80	72.90	73.00	73.30			
3620706.61 |	71.70	71.90	72.00	72.10	72.20	
72.30	72.40	72.50	72.90			
3620688.57 |	71.30	71.40	71.40	71.50	71.50	
71.70	71.90	72.10	72.50			
3620670.53 |	70.90	70.90	70.90	70.90	70.80	
71.10	71.40	71.80	72.10			
3620652.49 |	70.70	70.60	70.60	70.60	70.60	
70.80	71.10	71.40	71.80			
3620634.45 |	70.40	70.40	70.40	70.40	70.40	
70.60	70.80	71.10	71.40			
3620616.41 |	70.20	70.20	70.10	70.20	70.20	
70.40	70.70	70.90	71.20			
3620598.37 |	70.00	69.90	69.90	69.90	70.00	
70.20	70.40	70.70	70.90			
3620580.33 |	69.90	69.70	69.60	69.70	69.80	
69.90	70.10	70.30	70.60			
3620562.29 |	70.00	69.80	69.70	69.70	69.80	
69.90	70.10	70.30	70.50			
3620544.25 |	70.20	70.10	70.10	70.00	69.90	
69.90	70.20	70.40	70.50			
3620526.21	71.60	71.50	71.30	71.10	70.80	
70.70	70.80	70.90	70.90			

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*
 *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART

* HILL HEIGHT SCALES IN METERS *

Y-COORD	|				X-COORD (METERS)	
(METERS)	|	491467.79	491477.48	491487.17	491496.86	491506.55
491516.24	|	491525.93	491535.62	491545.31		

3620887.01 |		67.10	67.40	67.80	68.10	68.20
68.10	|	68.80	68.80	69.50		
3620868.97 |		67.90	68.10	68.30	68.50	68.70
69.00	|	69.20	69.30	69.40		
3620850.93 |		68.60	68.70	68.80	68.90	69.10
69.40	|	69.70	69.70	69.60		

3620832.89	|	70.00	70.00	69.90	69.90	70.00
70.10		70.30	70.40	70.40		
3620814.85	|	71.30	71.20	71.00	70.90	70.80
70.90		70.90	71.00	71.10		
3620796.81	|	72.50	72.40	72.10	71.80	71.70
71.60		71.50	71.50	71.50		
3620778.77	|	73.30	73.30	73.00	72.70	72.50
72.30		72.10	72.10	72.10		
3620760.73	|	73.70	73.80	73.60	73.50	73.30
73.10		72.90	72.80	72.70		
3620742.69	|	73.70	73.90	73.80	73.80	73.80
73.70		73.70	73.40	73.10		
3620724.65	|	73.60	73.80	73.90	74.00	74.10
74.20		74.30	74.00	73.60		
3620706.61	|	73.30	73.60	73.80	73.90	74.10
74.30		74.50	74.20	73.90		
3620688.57	|	72.90	73.30	73.50	73.70	73.90
74.10		74.40	74.30	74.10		
3620670.53	|	72.50	72.80	73.00	73.20	73.50
73.80		74.00	74.00	74.00		
3620652.49	|	72.10	72.40	72.60	72.80	73.10
73.30		73.60	73.70	73.80		
3620634.45	|	71.80	72.00	72.20	72.40	72.60
72.90		73.20	73.40	73.50		
3620616.41	|	71.50	71.70	71.90	72.10	72.30
72.50		72.70	73.00	73.20		
3620598.37	|	71.20	71.40	71.50	71.70	71.90
72.10		72.30	72.60	72.90		
3620580.33	|	70.90	71.10	71.20	71.20	71.40
71.70		72.10	72.40	72.70		
3620562.29	|	70.70	70.90	70.90	71.00	71.20
71.50		71.80	72.10	72.50		
3620544.25	|	70.60	70.70	70.80	70.80	71.00
71.30		71.60	71.90	72.30		
3620526.21		71.00	71.10	71.10	71.20	71.40
71.70		72.00	72.20	72.40		

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*** MODELOPTs: RegDFault CONC ELEV RURAL ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD | X-COORD (METERS)

(METERS)	491555.00	491564.69	491574.38
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3620887.01	69.50	70.10	70.10
3620868.97	69.40	68.70	70.10
3620850.93	69.50	69.70	69.90
3620832.89 |	70.40	70.30	70.20
3620814.85 |	71.20	70.90	70.60
3620796.81 |	71.50	71.30	71.00
3620778.77 |	72.00	71.70	71.40
3620760.73 |	72.50	72.10	71.70
3620742.69 |	72.80	72.40	71.90
3620724.65 |	73.10	72.60	72.10
3620706.61 |	73.60	73.00	72.30
3620688.57 |	73.90	73.20	72.60
3620670.53 |	73.90	73.30	72.80
3620652.49 |	73.80	73.40	73.00
3620634.45 |	73.60	73.40	73.20
3620616.41 |	73.40	73.30	73.30
3620598.37 |	73.20	73.30	73.40
3620580.33 |	73.00	73.20	73.40
3620562.29	72.80	73.10	73.40
3620544.25	72.60	72.90	73.30
3620526.21	72.60	72.90	73.20

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

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

(490849.1, 3620944.7,	73.9,	73.9,	0.0);	(490856.4,
3620922.1, 73.7, 73.7,	0.0);			
(490865.9, 3620906.0,	73.3,	73.3,	0.0);	(490894.3,
3620928.6, 74.4, 74.4,	0.0);			
(490890.0, 3620952.7,	74.4,	74.4,	0.0);	(490887.8,
3620978.9, 74.5, 74.5,	0.0);			
(490903.1, 3620989.1,	75.1,	75.1,	0.0);	(490912.6,
3621005.9, 75.8, 75.8,	0.0);			
(490923.5, 3621026.3,	76.8,	76.8,	0.0);	(490929.3,
3621045.2, 77.5, 77.5,	0.0);			
(490936.6, 3621068.5,	78.2,	78.2,	0.0);	(490956.3,
3621064.2, 79.1, 79.1,	0.0);			
(490973.0, 3621064.9,	79.8,	79.8,	0.0);	(490990.5,

3621068.5,	80.5,	80.5,	0.0);		
(491008.0,	3621067.1,	80.6,	80.7,	0.0);	(491066.3,
3621081.7,	78.8,	82.0,	0.0);		
(491058.3,	3621095.5,	81.3,	81.7,	0.0);	(491055.4,
3621110.1,	81.9,	81.9,	0.0);		
(491055.4,	3621126.9,	82.3,	82.3,	0.0);	(491059.8,
3621142.2,	82.4,	82.4,	0.0);		
(491058.3,	3621155.3,	82.4,	82.4,	0.0);	(491053.2,
3621175.0,	81.0,	81.0,	0.0);		
(491214.3,	3620900.9,	45.0,	87.2,	0.0);	(491183.0,
3620912.6,	44.8,	87.2,	0.0);		
(491263.8,	3620721.6,	67.7,	67.7,	0.0);	(491266.0,
3620737.7,	67.0,	67.0,	0.0);		
(491266.0,	3620752.2,	65.8,	65.8,	0.0);	(491266.8,
3620767.5,	64.8,	64.8,	0.0);		
(491266.8,	3620785.0,	63.7,	63.7,	0.0);	(491269.0,
3620807.6,	63.1,	63.1,	0.0);		
(491271.1,	3620838.2,	61.0,	70.1,	0.0);	(491219.4,
3620910.4,	44.8,	87.2,	0.0);		
(491226.7,	3620921.3,	44.7,	87.2,	0.0);	(491234.0,
3620933.7,	44.5,	87.2,	0.0);		
(491254.4,	3620925.7,	44.9,	87.2,	0.0);	(491266.8,
3620924.2,	45.0,	87.2,	0.0);		
(491279.1,	3620926.4,	45.3,	87.2,	0.0);	(491294.5,
3620927.2,	45.7,	87.2,	0.0);		
(491189.5,	3620925.0,	44.8,	87.2,	0.0);	(491197.5,
3620935.9,	44.6,	87.2,	0.0);		
(491207.0,	3620947.6,	44.4,	87.2,	0.0);	(491215.0,
3620962.9,	44.3,	87.2,	0.0);		
(491223.0,	3620973.8,	44.2,	87.2,	0.0);	(491229.6,
3620985.5,	44.4,	87.2,	0.0);		
(491314.1,	3620938.1,	47.0,	82.5,	0.0);	(491288.6,
3620853.5,	61.9,	68.7,	0.0);		
(491301.7,	3620860.8,	61.8,	68.7,	0.0);	(491317.0,
3620868.9,	63.4,	63.4,	0.0);		
(491249.3,	3620952.7,	44.4,	87.2,	0.0);	(491254.4,
3620965.8,	44.4,	87.2,	0.0);		
(491274.8,	3620954.1,	45.0,	87.2,	0.0);	(491286.4,
3620965.1,	45.5,	87.2,	0.0);		
(491239.8,	3621000.0,	44.7,	87.2,	0.0);	(491263.8,
3620977.4,	44.6,	87.2,	0.0);		
(491270.4,	3620988.4,	44.8,	87.2,	0.0);	(491295.2,
3620974.5,	45.9,	87.2,	0.0);		
(491246.3,	3621010.2,	44.8,	87.2,	0.0);	(491256.6,
3621026.3,	45.1,	87.2,	0.0);		
(491263.1,	3621035.8,	45.3,	87.2,	0.0);	(491271.1,
3621048.9,	45.5,	87.2,	0.0);		
(491300.3,	3621035.0,	46.0,	87.2,	0.0);	(491290.8,
3621020.4,	45.5,	87.2,	0.0);		
(491285.0,	3621008.8,	45.2,	87.2,	0.0);	(491278.4,

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3620998.6,      45.0,      87.2,      0.0);
( 491299.6, 3620986.2,      45.8,      87.2,      0.0);      ( 491303.9,
3620996.4,      45.8,      87.2,      0.0);
( 491313.4, 3621011.0,      46.2,      87.2,      0.0);      ( 491320.0,
3621019.0,      46.4,      87.2,      0.0);
( 491308.3, 3620822.2,      63.9,      70.1,      0.0);      ( 491306.8,
3620803.3,      64.4,      71.0,      0.0);
( 491308.3, 3620783.6,      65.3,      71.0,      0.0);      ( 491307.6,
3620766.8,      66.4,      71.9,      0.0);
( 491311.2, 3620747.1,      68.0,      70.3,      0.0);      ( 491308.3,
3620730.4,      69.2,      70.3,      0.0);
( 491344.7, 3620729.7,      71.8,      71.8,      0.0);      ( 491343.3,
3620746.4,      71.2,      71.2,      0.0);
( 491344.7, 3620763.2,      70.8,      70.8,      0.0);      ( 491343.3,
3620779.9,      70.1,      70.1,      0.0);
( 491344.7, 3620799.6,      69.6,      69.6,      0.0);      ( 491346.2,
3620815.7,      68.9,      68.9,      0.0);
( 491347.7, 3620836.8,      66.4,      68.7,      0.0);      ( 491330.2,
3620876.1,      64.1,      64.1,      0.0);
( 491327.4, 3620952.6,      46.9,      87.2,      0.0);      ( 491338.3,
3620938.0,      49.3,      82.2,      0.0);
( 491324.5, 3620969.3,      46.5,      87.2,      0.0);      ( 491331.8,
3620982.5,      47.0,      87.2,      0.0);
( 491338.3, 3620994.1,      47.1,      87.2,      0.0);      ( 491345.6,
3621010.9,      46.8,      87.2,      0.0);
( 491368.9, 3620934.4,      52.8,      73.9,      0.0);      ( 491364.5,
3620948.9,      49.7,      82.0,      0.0);

```

```

^ *** AERMOD - VERSION 22112 ***      *** C:\Users\anol1\OneDrive -
Dudek\Desktop\HARP2\Fairmount Fire Station ***      11/30/23

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```

*** AERMET - VERSION 22112 ***      ***
***      15:19:56

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

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

```

( 491365.3, 3620961.3,      49.5,      82.2,      0.0);      ( 491363.1,
3620975.9,      49.1,      82.2,      0.0);
( 491364.5, 3620987.6,      48.7,      87.2,      0.0);      ( 491344.1,
3620883.3,      64.3,      64.7,      0.0);
( 491363.1, 3620884.1,      64.6,      64.6,      0.0);      ( 491362.0,
3620545.8,      70.1,      70.1,      0.0);
( 491356.2, 3620570.6,      70.0,      70.0,      0.0);      ( 491322.6,
3620545.1,      69.9,      73.8,      0.0);
( 491347.4, 3620535.6,      70.8,      73.4,      0.0);      ( 491265.8,
3620676.3,      69.5,      69.5,      0.0);
( 491284.0, 3620690.8,      69.7,      69.7,      0.0);      ( 491297.1,

```

```

*** AERMOD - VERSION 22112 ***      *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Fairmount Fire Station ***      11/30/23
*** AERMET - VERSION 22112 ***      ***
***      15:19:56

```

```
*** MODELOPTs:   RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
```

PROCESSING ***

[illegible]

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED

(METERS/SEC)

10.80,

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL

DATA ***

Surface file: ..\Met Data\Lindbergh_2019_2021_v22122.SFC

Met Version: 22112

Profile file: ..\Met Data\Lindbergh_2019_2021_v22122.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 23188

Upper air station no.: 3190

Name: SAN_DIEGO/LINDBERGH_FIELD

Name: UNKNOWN

Year: 2019

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	-3.8	0.078	-9.000	-9.000	-999.	53.	11.4	0.02	0.83	
1.00	1.40	356.	10.0	282.5	2.0									
19	01	01	1	02	-4.6	0.086	-9.000	-9.000	-999.	61.	12.4	0.02	0.83	
1.00	1.55	336.	10.0	281.4	2.0									
19	01	01	1	03	-9.4	0.123	-9.000	-9.000	-999.	104.	18.0	0.02	0.83	
1.00	2.18	357.	10.0	281.4	2.0									
19	01	01	1	04	-13.9	0.151	-9.000	-9.000	-999.	141.	25.2	0.02	0.83	
1.00	2.64	26.	10.0	281.4	2.0									
19	01	01	1	05	-13.7	0.150	-9.000	-9.000	-999.	139.	24.7	0.01	0.83	
1.00	2.64	31.	10.0	280.9	2.0									
19	01	01	1	06	-15.6	0.160	-9.000	-9.000	-999.	154.	28.2	0.01	0.83	
1.00	2.81	40.	10.0	282.0	2.0									
19	01	01	1	07	-20.6	0.202	-9.000	-9.000	-999.	219.	45.1	0.02	0.83	
1.00	3.47	26.	10.0	280.3	2.0									
19	01	01	1	08	-11.1	0.200	-9.000	-9.000	-999.	215.	65.8	0.02	0.83	
0.49	3.39	18.	10.0	281.4	2.0									
19	01	01	1	09	36.3	0.219	0.541	0.005	158.	245.	-26.2	0.02	0.83	
0.29	3.15	24.	10.0	284.2	2.0									
19	01	01	1	10	80.5	0.251	0.835	0.005	262.	302.	-17.9	0.02	0.83	
0.22	3.52	28.	10.0	285.9	2.0									
19	01	01	1	11	110.8	0.250	1.329	0.005	771.	300.	-12.8	0.02	0.83	
0.20	3.41	26.	10.0	287.0	2.0									
19	01	01	1	12	125.5	0.288	1.459	0.005	899.	371.	-17.3	0.01	0.83	
0.19	4.07	45.	10.0	288.8	2.0									
19	01	01	1	13	118.6	0.434	1.485	0.005	1004.	687.	-62.6	0.01	0.83	
0.19	6.63	39.	10.0	288.8	2.0									
19	01	01	1	14	100.0	0.500	1.440	0.005	1085.	848.	-113.5	0.01	0.83	
0.20	7.81	34.	10.0	288.8	2.0									
19	01	01	1	15	65.6	0.423	1.270	0.005	1134.	665.	-104.6	0.02	0.83	

0.23	6.52	28.	10.0	288.8	2.0							
19	01	01	1	16	18.3	0.364	0.833	0.005	1147.	529.	-238.7	0.01 0.83
0.32	5.79	41.	10.0	288.1	2.0							
19	01	01	1	17	-24.7	0.277	-9.000	-9.000	-999.	355.	84.7	0.01 0.83
0.59	4.73	30.	10.0	286.4	2.0							
19	01	01	1	18	-12.2	0.141	-9.000	-9.000	-999.	141.	22.0	0.01 0.83
1.00	2.50	57.	10.0	285.9	2.0							
19	01	01	1	19	-18.0	0.179	-9.000	-9.000	-999.	182.	35.3	0.01 0.83
1.00	3.12	58.	10.0	284.8	2.0							
19	01	01	1	20	-24.4	0.243	-9.000	-9.000	-999.	287.	64.8	0.01 0.83
1.00	4.17	48.	10.0	284.2	2.0							
19	01	01	1	21	-19.0	0.188	-9.000	-9.000	-999.	197.	39.0	0.02 0.83
1.00	3.24	61.	10.0	283.8	2.0							
19	01	01	1	22	-27.5	0.272	-9.000	-9.000	-999.	341.	81.5	0.02 0.83
1.00	4.61	61.	10.0	283.1	2.0							
19	01	01	1	23	-27.4	0.272	-9.000	-9.000	-999.	341.	81.6	0.02 0.83
1.00	4.61	68.	10.0	283.8	2.0							
19	01	01	1	24	-23.9	0.237	-9.000	-9.000	-999.	277.	61.6	0.02 0.83
1.00	4.03	71.	10.0	283.1	2.0							

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
19	01	01	01	10.0	1	356.	1.40	282.6	99.0	-99.00	-99.00

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

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 *** 11/30/23
 *** 15:19:56

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL 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
 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD |

X-COORD (METERS)

(METERS) |	491380.58	491390.27	491399.96	491409.65	491419.34
491429.03	491438.72	491448.41	491458.10		
- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -

3620887.01 |	11.68777	10.50823	9.58344	8.98417	8.29025
7.67317	7.12623	6.55659	6.16104		
3620868.97 |	10.97256	9.89294	9.08541	8.38289	7.76588
7.26185	6.84959	6.43817	6.09944		
3620850.93 |	10.99175	9.82728	8.89083	8.22650	7.65248
7.42167	7.04210	6.65904	6.30911		
3620832.89 |	11.02453	10.03892	9.20049	8.71736	8.13968
7.65545	7.21659	6.85020	6.51575		
3620814.85 |	12.17082	11.39569	10.31689	9.60235	8.96378
8.39050	7.90599	7.46770	7.09990		
3620796.81 |	14.43500	13.00869	11.93762	11.01753	10.20554
9.51984	8.90831	8.36050	7.86755		
3620778.77 |	17.76797	15.71916	14.09542	12.88247	11.82930
10.90805	10.13281	9.44629	8.80276		
3620760.73 |	21.98204	19.23737	17.07900	15.41802	14.00218
12.78489	11.73014	10.80957	10.00066		
3620742.69 |	27.80039	24.19399	21.32133	19.02853	17.14226
15.48005	14.05565	12.82759	11.72045		
3620724.65 |	33.77314	29.88202	26.44436	23.68096	21.26561
19.09674	17.21750	15.58936	14.07463		
3620706.61 |	37.51487	34.26575	31.23755	28.36331	25.69170
23.24844	21.04153	19.06620	17.11516		
3620688.57 |	37.17773	35.29603	33.35691	31.15514	29.03672
26.70610	24.47183	22.36674	20.25166		
3620670.53 |	33.94503	33.33569	32.45818	31.34308	30.17462
28.32197	26.43452	24.44910	22.61913		
3620652.49 |	29.55045	29.70453	29.52902	29.16547	28.61072
27.60007	26.33715	24.99492	23.49566		
3620634.45 |	25.85379	25.97451	26.06917	26.08836	25.99662
25.49523	24.88139	24.03759	23.11266		
3620616.41 |	22.99098	22.99127	23.20892	23.15395	23.23355
22.98869	22.55850	22.18944	21.62642		
3620598.37 |	21.04577	21.01792	20.93383	20.92824	20.83713
20.64410	20.45997	20.13808	19.90205		
3620580.33 |	19.59958	19.57979	19.49270	19.20351	18.99896
18.86367	18.65343	18.47730	18.19869		
3620562.29 |	18.28027	18.17390	17.99290	17.74341	17.43481
17.19977	16.91339	16.69055	16.51430		
3620544.25 |	17.10458	16.81639	16.45852	16.28623	16.16371
15.97078	15.49299	15.19910	15.06811		
3620526.21	14.67180	14.40619	14.28946	14.21463	14.28477
14.17594	13.89836	13.66707	13.57687		

▲ *** AERMOD - VERSION 22112 *** *** C:\Users\anoll\OneDrive -
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL 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
,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)	
491516.24	491525.93	491535.62	491545.31	491496.86	491506.55

3620887.01	5.73785	5.38957	5.04374	4.75664	4.54417
4.39614	4.22703	4.11554	3.98749		
3620868.97	5.75597	5.44127	5.15205	4.88554	4.63938
4.38754	4.17773	4.00441	3.84268		
3620850.93	5.95579	5.66297	5.39329	5.14433	4.88753
4.62551	4.38393	4.22614	4.10027		
3620832.89	6.20945	5.92810	5.69724	5.45676	5.20761
4.97647	4.73775	4.53852	4.37433		
3620814.85	6.76552	6.46047	6.20975	5.95311	5.71701
5.44686	5.22152	4.98816	4.77109		
3620796.81	7.45153	7.07524	6.79011	6.53383	6.24673
5.98356	5.74165	5.49304	5.26283		
3620778.77	8.25752	7.76749	7.41109	7.09246	6.77810
6.49326	6.23436	5.94455	5.67771		
3620760.73	9.28551	8.64976	8.17123	7.71441	7.33194
6.98769	6.67677	6.36794	6.08594		
3620742.69	10.75500	9.90805	9.25973	8.65279	8.11114
7.65462	7.21591	6.90102	6.61879		
3620724.65	12.76202	11.66133	10.73600	9.92141	9.20104
8.56113	7.99014	7.59165	7.26539		
3620706.61	15.40441	13.95660	12.73032	11.69163	10.73413
9.88709	9.13571	8.62386	8.16936		
3620688.57	18.32951	16.59607	15.15305	13.85483	12.69096
11.64984	10.68038	9.96116	9.35146		

3620670.53	|	20.77354	19.10935	17.61641	16.22221	14.87455
13.64175		12.56698	11.67706	10.86583		
3620652.49	|	22.08499	20.67307	19.36166	18.07637	16.76602
15.58412		14.40932	13.41758	12.48994		
3620634.45	|	22.01716	21.07686	20.08713	19.06534	18.02826
16.91997		15.83686	14.84981	13.95406		
3620616.41	|	20.99765	20.40797	19.75220	19.03986	18.28139
17.48776		16.67019	15.77140	14.94300		
3620598.37	|	19.50693	19.16744	18.86769	18.40939	17.89976
17.34438		16.74956	16.04795	15.33030		
3620580.33	|	17.91946	17.72465	17.59119	17.50434	17.17529
16.71687		16.14669	15.63553	15.10042		
3620562.29	|	16.36563	16.22601	16.27241	16.19388	15.99113
15.67078		15.32596	14.95682	14.49144		
3620544.25	|	14.98031	14.92312	14.88231	14.93572	14.79618
14.55851		14.30837	14.04178	13.68392		
3620526.21		13.43499	13.33510	13.35660	13.31305	13.20044
13.01649		12.83624	12.72368	12.59588		

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL 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
 ,

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

** CONC OF PM_10 IN MICROGRAMS/M**3
 **

Y-COORD	|				X-COORD (METERS)
(METERS)	|	491555.00	491564.69	491574.38	
- - - - -	-	- - - - -	- - - - -	- - - - -	- - - - -
- - - - -	-	- - - - -	- - - - -	- - - - -	- - - - -

3620887.01	|	3.93233	4.03327	4.17461
3620868.97	|	3.71145	3.72865	3.68803
3620850.93	|	3.98262	3.81115	3.65078
3620832.89	|	4.22061	4.09714	3.98133

3620814.85	4.56878	4.46566	4.37133
3620796.81	5.04915	4.89687	4.77935
3620778.77	5.45620	5.30079	5.15913
3620760.73	5.85341	5.69248	5.54877
3620742.69	6.36502	6.16359	6.01174
3620724.65	7.00557	6.77858	6.58023
3620706.61	7.76483	7.49687	7.29913
3620688.57	8.80493	8.48535	8.17788
3620670.53	10.16768	9.72810	9.29922
3620652.49	11.67366	11.09451	10.56012
3620634.45	13.09286	12.42352	11.78365
3620616.41	14.12172	13.48408	12.79698
3620598.37	14.60331	13.99381	13.37359
3620580.33	14.54506	14.03664	13.50867
3620562.29	14.08215	13.65368	13.20835
3620544.25	13.38441	13.06728	12.67168
3620526.21	12.44991	12.21993	11.97578

^ *** AERMOD - VERSION 22112 *** C:\Users\anol1\OneDrive -
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL 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
 ,

*** *** 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		

490849.15	3620944.66	1.99811	490856.44
3620922.06	2.26309		
490865.91	3620906.03	2.56527	490894.34
3620928.62	2.27594		
490889.96	3620952.67	2.01792	490887.78
3620978.91	1.76671		

490903.08	3620989.11	1.70560	490912.56
3621005.88	1.61911		
490923.49	3621026.28	1.51407	490929.32
3621045.23	1.39561		
490936.61	3621068.55	1.28510	490956.29
3621064.18	1.33839		
490973.05	3621064.91	1.40531	490990.54
3621068.55	1.50836		
491008.03	3621067.10	1.67779	491066.34
3621081.67	2.62764		
491058.32	3621095.52	2.41285	491055.40
3621110.10	2.30112		
491055.40	3621126.86	2.22182	491059.78
3621142.16	2.22391		
491058.32	3621155.28	2.15623	491053.22
3621174.96	2.10970		
491214.28	3620900.93	76.36166	491182.95
3620912.59	54.49162		
491263.84	3620721.64	80.47904	491266.03
3620737.67	106.74950		
491266.03	3620752.25	147.35378	491266.76
3620767.55	178.92433		
491266.76	3620785.05	163.88891	491268.95
3620807.64	86.63173		
491271.13	3620838.25	64.79606	491219.39
3620910.40	66.44227		
491226.67	3620921.33	56.71416	491233.96
3620933.72	47.93997		
491254.37	3620925.71	48.04609	491266.76
3620924.25	45.99426		
491279.15	3620926.44	42.26958	491294.45
3620927.16	38.50940		
491189.51	3620924.98	51.04686	491197.52
3620935.91	47.75599		
491207.00	3620947.57	43.40412	491215.01
3620962.88	37.46905		
491223.03	3620973.81	33.57479	491229.59
3620985.47	30.07778		
491314.13	3620938.10	32.23967	491288.62
3620853.55	41.54643		
491301.74	3620860.84	33.96899	491317.05
3620868.86	24.65907		
491249.27	3620952.67	37.43474	491254.37
3620965.79	32.74070		
491274.78	3620954.13	33.69950	491286.44
3620965.06	29.71719		
491239.79	3621000.04	26.30586	491263.84
3620977.45	28.86988		
491270.40	3620988.38	26.09515	491295.18
3620974.54	27.02493		

491246.35	3621010.25	24.08092	491256.56
3621026.28	21.13728		
491263.11	3621035.76	19.67003	491271.13
3621048.88	17.91396		
491300.28	3621035.03	18.07098	491290.81
3621020.45	20.04794		
491284.98	3621008.79	21.81422	491278.42
3620998.59	23.75517		
491299.56	3620986.20	24.45044	491303.93
3620996.40	22.51252		
491313.40	3621010.98	20.08951	491319.96
3621018.99	18.89106		
491308.30	3620822.22	31.24122	491306.84
3620803.27	42.44374		
491308.30	3620783.59	58.14085	491307.57
3620766.83	75.05251		
491311.22	3620747.15	78.26193	491308.30
3620730.39	73.01479		
491344.74	3620729.66	49.51447	491343.28
3620746.42	45.79066		
491344.74	3620763.18	36.00381	491343.28
3620779.94	28.95491		
491344.74	3620799.62	21.65485	491346.20
3620815.66	17.51904		

^ *** AERMOD - VERSION 22112 *** *** C:\Users\anol1\OneDrive -
 Dudek\Desktop\HARP2\Fairmount Fire Station *** 11/30/23
 *** AERMET - VERSION 22112 *** ***
 *** 15:19:56

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL 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
 ,

*** 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		

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- - - - -
      491347.66      3620836.79      15.36052      491330.17
3620876.15      19.87913
      491327.38      3620952.58      27.23895      491338.31
3620938.00      28.26661
      491324.46      3620969.34      25.02562      491331.75
3620982.46      22.70428
      491338.31      3620994.12      20.72454      491345.60
3621010.89      18.32561
      491368.92      3620934.36      23.10853      491364.55
3620948.94      22.36879
      491365.28      3620961.33      21.45099      491363.09
3620975.90      20.62770
      491364.55      3620987.57      19.45197      491344.14
3620883.34      16.84627
      491363.09      3620884.07      13.62977      491362.01
3620545.80      18.25875
      491356.18      3620570.58      20.06515      491322.65
3620545.07      17.91557
      491347.43      3620535.60      15.93606      491265.80
3620676.27      45.06907
      491284.02      3620690.84      47.44297      491297.14
3620671.89      38.51574
      491373.28      3620591.53      20.60700

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^ *** AERMOD - VERSION 22112 *** *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Fairmount Fire Station *** 11/30/23
*** AERMET - VERSION 22112 *** ***
*** 15:19:56

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL 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
,

```

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD |			X-COORD (METERS)
(METERS) |	491380.58	491390.27	491399.96

491409.65

491419.34

3620887.0 | 997.61413 (21011206) 897.65448 (21011206) 848.94103 (21061723)
864.64654 (21011605) 799.94869 (21011605)
3620869.0 | 886.44352 (20081823) 826.55872 (20081823) 776.49501 (21050402)
740.53628 (21071403) 697.89047 (21071403)
3620850.9 | 784.54100 (19072606) 740.83439 (19072606) 695.07419 (19072606)
656.06883 (19072606) 614.17693 (19072606)
3620832.9 | 717.47245 (20050706) 671.48812 (20050706) 626.15033 (20050706)
626.83243 (21060306) 613.65820 (21060306)
3620814.9 | 638.93386 (21060306) 628.79209 (21060306) 578.12223 (21111617)
561.60138 (21111617) 545.52127 (21111617)
3620796.8 | 589.05698 (20110706) 564.75866 (20110706) 553.13274 (21021220)
534.92426 (21021220) 517.53303 (21021220)
3620778.8 | 623.23390 (21031507) 582.82454 (21031507) 546.33296 (21031507)
522.49683 (19120320) 509.56195 (19120320)
3620760.7 | 589.79764 (19072806) 555.57853 (20012420) 533.23678 (19071806)
517.48784 (19071806) 498.32421 (19071806)
3620742.7 | 601.40332 (21092807) 570.69732 (21092807) 561.42386 (20103117)
545.74187 (20103117) 522.77864 (20103117)
3620724.6 | 591.86798 (21072606) 583.45580 (21072606) 556.89632 (21072606)
524.46005 (21072606) 508.96502 (20070906)
3620706.6 | 624.02103 (19120708) 594.97323 (20122308) 585.81164 (20122308)
552.37298 (20122308) 510.55440 (21072606)
3620688.6 | 576.44596 (21013008) 541.17476 (20101424) 545.25646 (19120708)
560.62579 (19120708) 550.30189 (19120708)
3620670.5 | 554.53565 (21020719) 555.12865 (21013008) 554.70844 (21013008)
518.31170 (20121023) 529.03496 (20120608)
3620652.5 | 627.87410 (20020108) 600.27101 (20020108) 529.56657 (20020108)
515.59479 (21012719) 517.62807 (21013008)
3620634.5 | 604.97921 (19100607) 580.80043 (19100607) 588.66306 (20020108)
568.66506 (20020108) 516.52262 (20121708)
3620616.4 | 579.14536 (20012208) 573.36534 (20012808) 553.06147 (19100607)
545.73738 (19121708) 556.34791 (20121708)
3620598.4 | 572.63351 (21032807) 547.59544 (20012208) 560.93778 (20012208)
549.36809 (20012808) 508.79020 (19121708)
3620580.3 | 548.21237 (21032807) 564.79024 (21032807) 533.13042 (21032807)
536.73322 (20012208) 533.94656 (20012208)
3620562.3 | 541.25122 (21012808) 510.65445 (21012808) 536.37336 (21032807)
524.82013 (21032807) 486.39638 (20012208)
3620544.2 | 527.45760 (19100407) 519.46508 (21012808) 494.94734 (21012808)
492.88379 (21032807) 503.32218 (21032807)
3620526.2 | 422.60919 (19100407) 458.20585 (19100407) 461.81138 (19100407)
446.13223 (21012808) 434.58951 (21032807)

▲ *** AERMOD - VERSION 22112 *** *** C:\Users\anoll\OneDrive -
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*** AERMET - VERSION 22112 *** ***

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL 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
 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD (METERS)			X-COORD (METERS)
	491429.03	491438.72	491448.41
491458.10	491467.79		

 3620887.0 | 760.64811 (20081823) 747.05569 (19011219) 677.34877 (20081823)
 654.19440 (21071403) 621.06510 (21071403)
 3620869.0 | 676.49979 (20101603) 658.16708 (20101603) 626.86625 (20101603)
 607.25482 (21083101) 588.36743 (21083101)
 3620850.9 | 645.14934 (20022223) 627.24820 (20022223) 601.08352 (20022223)
 579.66247 (20112219) 562.45083 (20112219)
 3620832.9 | 602.07452 (21060306) 589.17920 (21060306) 578.24272 (21060306)
 566.40496 (21060306) 553.87998 (21060306)
 3620814.9 | 529.84457 (21111617) 516.84870 (21111617) 504.24250 (21111617)
 494.15211 (21111617) 484.37305 (21111617)
 3620796.8 | 503.47697 (21021220) 490.06351 (21021220) 477.21032 (21021220)
 464.92875 (21021220) 455.54528 (21021220)
 3620778.8 | 495.89798 (19120320) 483.80131 (21013119) 471.33934 (21013119)
 456.77370 (20050906) 447.29097 (20050906)
 3620760.7 | 481.10075 (19080706) 465.45976 (21031507) 460.14951 (21031507)
 452.55711 (21031507) 442.95958 (21031507)
 3620742.7 | 491.30483 (20103117) 468.62310 (21012001) 450.71831 (19042501)
 435.67873 (19042501) 421.78598 (20012420)
 3620724.6 | 494.76328 (20070906) 472.68613 (19121319) 464.81813 (20122620)
 458.47589 (20103117) 445.71185 (20103117)
 3620706.6 | 514.27804 (21072606) 503.69154 (21072606) 481.04789 (21072606)
 442.11437 (21072606) 430.47759 (20070906)
 3620688.6 | 534.43047 (20122308) 517.92781 (20122308) 484.12750 (20122308)
 444.39403 (20121118) 442.95429 (21072606)
 3620670.5 | 497.83574 (20120608) 504.67331 (19120708) 496.20430 (19120708)

470.42452 (20122308)	463.70385 (20122308)		
3620652.5 | 502.27106 (21013008)	479.46961 (20120608)	468.73151 (20120608)	
440.76803 (20121218)	442.54152 (19120708)		
3620634.5 | 481.19028 (21012719)	469.41389 (21020920)	466.91302 (21013008)	
443.96158 (21013008)	423.97813 (20120608)		
3620616.4 | 538.31932 (20121708)	488.02541 (20121708)	446.10064 (21020719)	
432.71150 (21012719)	423.83030 (21013008)		
3620598.4 | 510.62431 (19121708)	516.95594 (20121708)	501.22717 (20121708)	
464.21925 (20121708)	413.21916 (21020719)		
3620580.3 | 516.48061 (20012808)	476.57549 (19121708)	477.46597 (19121708)	
481.95697 (20121708)	470.97934 (20121708)		
3620562.3 | 507.82240 (20012208)	493.00193 (20012808)	473.50819 (20012808)	
441.56593 (19121708)	441.85599 (19121708)		
3620544.2 | 476.95510 (21032807)	461.45371 (20012208)	468.55280 (20012208)	
457.48539 (20012808)	438.10453 (20012808)		
3620526.2 458.89527 (21032807)	448.00670 (21032807)	410.72518 (21032807)	
426.39733 (20012208)	428.88022 (20012208)		

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL 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
 ,

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

** CONC OF PM_10 IN MICROGRAMS/M**3
 **

Y-COORD |		X-COORD (METERS)
(METERS) |	491477.48	491487.17
491506.55	491516.24	491496.86

3620887.0 | 589.60891 (21022806)	563.96564 (20101603)	543.13059 (20101603)
527.05718 (20101603)	517.16127 (21012101)	
3620869.0 | 565.36351 (21083101)	542.85550 (20070103)	530.12311 (20022223)
516.76723 (20022223)	497.21058 (20022223)	

3620850.9 |	546.74356 (20112219)	529.09996 (20112219)	514.29010 (21071703)
497.13593 (21071703)	480.50464 (21011424)		
3620832.9 |	540.85277 (21060306)	530.20526 (21060306)	516.55059 (21060306)
500.22141 (21060306)	484.04412 (21060306)		
3620814.9 |	474.97659 (21111617)	468.04801 (21111617)	459.25080 (21111617)
450.77103 (21111617)	438.46304 (21111617)		
3620796.8 |	446.57315 (21021220)	442.63881 (21021220)	439.12650 (21021220)
431.22789 (21021220)	423.68088 (21021220)		
3620778.8 |	437.61070 (20050906)	433.83048 (20050906)	429.98204 (20050906)
423.99300 (20050906)	417.86620 (20050906)		
3620760.7 |	431.70124 (21031507)	423.18235 (21031507)	412.15630 (21031507)
401.57176 (21031507)	390.16979 (21031507)		
3620742.7 |	408.86393 (20012420)	403.52360 (19071806)	395.90052 (19071806)
386.13581 (19071806)	376.68479 (19071806)		
3620724.6 |	428.22101 (20103117)	407.18659 (20103117)	388.81401 (19022619)
377.97071 (21012001)	365.11554 (21012001)		
3620706.6 |	416.68182 (20070906)	398.36102 (20070906)	389.97211 (20122620)
382.45029 (20122620)	377.35425 (20103117)		
3620688.6 |	432.12118 (21072606)	416.49218 (21072606)	393.27153 (21072606)
369.19108 (20070906)	366.77211 (20070906)		
3620670.5 |	443.82366 (20122308)	413.46675 (20122308)	389.38572 (20121118)
386.11016 (21072606)	381.75321 (21072606)		
3620652.5 |	442.99218 (19120708)	428.81627 (19120708)	417.39798 (20122308)
408.61015 (20122308)	390.22632 (20122308)		
3620634.5 |	418.61176 (20120608)	400.70776 (20120608)	396.47619 (19120708)
402.73637 (19120708)	393.84919 (19120708)		
3620616.4 |	419.61469 (21013008)	396.33498 (20121023)	394.52139 (20120608)
389.01953 (20120608)	373.30105 (20120608)		
3620598.4 |	403.74526 (21012719)	395.52397 (21020920)	393.28850 (21013008)
383.26104 (21013008)	368.10730 (20120608)		
3620580.3 |	441.51510 (20121708)	401.51526 (20062206)	385.85792 (21021119)
377.92714 (21012719)	367.17737 (21020920)		
3620562.3 |	447.51967 (20121708)	449.70416 (20121708)	428.97379 (20121708)
389.52997 (20121708)	361.74694 (21021119)		
3620544.2 |	414.46856 (19121708)	416.19210 (19121708)	428.65092 (20121708)
427.10321 (20121708)	405.39145 (20121708)		
3620526.2	419.34853 (20012808)	400.93263 (20012808)	384.86035 (19121708)
384.37032 (19121708)	384.19369 (20121708)		

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 Dudek\Desktop\HARP2\Fairmount Fire Station *** 11/30/23
 *** AERMET - VERSION 22112 ***
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,

, L0000011 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
,

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

 ** CONC OF PM_10 IN MICROGRAMS/M**3
**

Y-COORD (METERS)				X-COORD (METERS)
	491525.93		491535.62	491545.31
491555.00		491564.69		

3620887.0	|	499.30193 (21083101)	500.32743 (21083101)	489.12000 (21083101)
490.62669	(19040103)	527.60528 (19040103)		
3620869.0	|	478.66802 (20022223)	461.35561 (20022223)	446.22108 (20082204)
438.27012	(20082204)	456.08635 (20082204)		
3620850.9	|	465.52949 (21011424)	457.42545 (21011424)	450.81392 (21011424)
443.27530	(21011424)	427.65730 (21011424)		
3620832.9	|	465.72225 (21060306)	450.17190 (21060306)	437.16511 (21060306)
424.38158	(21060306)	416.72678 (19021219)		
3620814.9	|	428.60554 (21111617)	417.14436 (21111617)	406.10159 (21111617)
395.46819	(21111617)	392.52609 (21111617)		
3620796.8	|	416.48979 (21021220)	407.31604 (21021220)	398.49704 (21021220)
390.01922	(21021220)	386.12364 (21021220)		
3620778.8	|	411.71469 (20050906)	401.57358 (20050906)	391.56648 (20050906)
383.61993	(20050906)	379.59647 (20050906)		
3620760.7	|	382.80240 (21031506)	374.93688 (19030705)	370.70679 (19030705)
367.52800	(19030705)	367.21652 (19030705)		
3620742.7	|	365.67648 (20050106)	363.34706 (20050106)	361.22253 (21041701)
360.16853	(21041701)	359.57237 (21041701)		
3620724.6	|	355.01742 (19042501)	350.54285 (19042501)	351.79108 (20110220)
355.71685	(19071806)	363.81988 (19071806)		
3620706.6	|	369.53121 (20103117)	363.11780 (20103117)	352.95806 (20103117)
345.84613	(19022619)	350.60370 (21012001)		
3620688.6	|	356.60095 (20070906)	348.62875 (20070906)	343.63008 (19121319)
341.61788	(20122620)	346.37961 (20122620)		
3620670.5	|	371.88791 (21072606)	359.29940 (21072606)	341.38068 (21072606)
337.02414	(21071906)	345.32802 (21071906)		
3620652.5	|	361.25713 (20122308)	347.34544 (20121118)	345.12428 (21072606)
348.54803	(21072606)	352.86199 (21072606)		
3620634.5	|	373.15208 (19120708)	373.29923 (20122308)	365.42574 (20122308)
348.84949	(20122308)	329.58191 (20122308)		
3620616.4	|	357.18905 (19120708)	364.54045 (19120708)	362.03608 (19120708)
349.20348	(19120708)	345.30712 (20122308)		
3620598.4	|	372.11437 (20120608)	362.67034 (20120608)	344.91413 (20120608)

325.78348 (20121218) 332.44094 (19120708)
3620580.3 | 361.73298 (21013008) 346.80451 (21013008) 334.91683 (20120608)
333.91684 (20120608) 328.63926 (20120608)
3620562.3 | 351.88116 (21012719) 340.67848 (21020920) 333.85145 (21013008)
328.99841 (21013008) 312.15572 (21013008)
3620544.2 | 369.85870 (20121708) 337.63690 (20062206) 324.50028 (21020719)
317.96611 (21012719) 309.81618 (21020920)
3620526.2 | 382.18223 (20121708) 367.98607 (20121708) 341.28767 (20121708)
314.09962 (20062206) 302.80137 (21020719)

▲ *** AERMOD - VERSION 22112 *** *** C:\Users\anol1\OneDrive -
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*** 15:19:56

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL 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
,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD | X-COORD (METERS)
(METERS) | 491574.38

3620887.0 | 576.57106 (19040103)
3620869.0 | 447.07624 (20112219)
3620850.9 | 416.87978 (21060306)
3620832.9 | 409.77345 (19021219)
3620814.9 | 391.17790 (20060703)
3620796.8 | 384.54420 (21021220)
3620778.8 | 377.81715 (21100804)
3620760.7 | 369.59355 (21013119)
3620742.7 | 359.63085 (21041701)
3620724.6 | 369.99389 (19071806)
3620706.6 | 357.65358 (21012001)
3620688.6 | 348.39302 (20103117)
3620670.5 | 350.48890 (20070906)

3620652.5	|	351.56300	(21072606)
3620634.5	|	326.11248	(20121118)
3620616.4	|	345.29302	(20122308)
3620598.4	|	334.59673	(19120708)
3620580.3	|	316.37832	(20120608)
3620562.3		302.43392	(20120608)
3620544.2		306.38539	(21013008)
3620526.2		295.24710	(21012719)

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL 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
 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		

490849.15	3620944.66	332.33912	(19010708)	490856.44
3620922.06	344.97028	(19010708)		
490865.91	3620906.03	386.23878	(20121208)	490894.34
3620928.62	357.06683	(19031407)		
490889.96	3620952.67	336.38824	(19011320)	490887.78
3620978.91	330.47110	(19122304)		
490903.08	3620989.11	333.35947	(19122903)	490912.56
3621005.88	318.61013	(20012824)		
490923.49	3621026.28	299.98527	(19031523)	490929.32
3621045.23	288.30096	(21022220)		
490936.61	3621068.55	286.14230	(19121022)	490956.29
3621064.18	270.22513	(19020322)		
490973.05	3621064.91	275.61147	(21120903)	490990.54
3621068.55	290.26423	(19020408)		
491008.03	3621067.10	286.59398	(21011818)	491066.34

3621081.67	344.09953	(20121408)	
491058.32	3621095.52	319.45763	(20121408) 491055.40
3621110.10	326.13027	(20121408)	
491055.40	3621126.86	330.16044	(20121408) 491059.78
3621142.16	301.75065	(20121408)	
491058.32	3621155.28	286.60417	(21012308) 491053.22
3621174.96	275.50337	(21012308)	
491214.28	3620900.93	2535.45321	(20010102) 491182.95
3620912.59	2308.54119	(20021204)	
491263.84	3620721.64	1161.67516	(19100407) 491266.03
3620737.67	1327.02336	(19100607)	
491266.03	3620752.25	1598.93158	(19100607) 491266.76
3620767.55	1757.21232	(20120608)	
491266.76	3620785.05	1833.16178	(20100101) 491268.95
3620807.64	1988.34606	(20100122)	
491271.13	3620838.25	2213.06718	(21120824) 491219.39
3620910.40	2324.69688	(21112924)	
491226.67	3620921.33	2120.30112	(19122819) 491233.96
3620933.72	1999.04859	(19122819)	
491254.37	3620925.71	2091.04772	(21020308) 491266.76
3620924.25	1957.46817	(20101502)	
491279.15	3620926.44	1880.91106	(19120803) 491294.45
3620927.16	1741.30731	(20042406)	
491189.51	3620924.98	2179.39907	(20022901) 491197.52
3620935.91	2028.13308	(20021105)	
491207.00	3620947.57	1872.72009	(21012621) 491215.01
3620962.88	1704.73290	(20120604)	
491223.03	3620973.81	1535.08123	(21112924) 491229.59
3620985.47	1458.51776	(21112924)	
491314.13	3620938.10	1620.14670	(20042406) 491288.62
3620853.55	1747.77390	(20120918)	
491301.74	3620860.84	1658.39573	(20120918) 491317.05
3620868.86	1420.73531	(21120824)	
491249.27	3620952.67	1779.32104	(21020308) 491254.37
3620965.79	1667.56010	(21020308)	
491274.78	3620954.13	1605.99376	(20103020) 491286.44
3620965.06	1499.47047	(20101502)	
491239.79	3621000.04	1337.57236	(19122819) 491263.84
3620977.45	1613.68117	(21020308)	
491270.40	3620988.38	1525.24664	(21020308) 491295.18
3620974.54	1431.88334	(20101721)	
491246.35	3621010.25	1316.32512	(19122819) 491256.56
3621026.28	1224.41940	(19122819)	
491263.11	3621035.76	1146.21014	(21020704) 491271.13
3621048.88	1075.47392	(21020704)	
491300.28	3621035.03	1140.77086	(20021723) 491290.81
3621020.45	1241.00799	(21020308)	
491284.98	3621008.79	1323.97589	(21020308) 491278.42
3620998.59	1422.49627	(21020308)	
491299.56	3620986.20	1339.15342	(20101721) 491303.93

3620996.40	1267.47741	(20101721)		
491313.40	3621010.98	1188.92578	(20101721)	491319.96
3621018.99	1148.05589	(20101721)		
491308.30	3620822.22	1246.98516	(20082204)	491306.84
3620803.27	1183.50709	(19081103)		
491308.30	3620783.59	1089.84988	(19071806)	491307.57
3620766.83	1044.89071	(21092807)		
491311.22	3620747.15	920.73071	(20122308)	491308.30
3620730.39	834.16597	(21013008)		
491344.74	3620729.66	718.03857	(19120708)	491343.28
3620746.42	741.97761	(21072606)		
491344.74	3620763.18	739.00070	(20103117)	491343.28
3620779.94	753.92498	(21031507)		
491344.74	3620799.62	754.88914	(21021220)	491346.20
3620815.66	853.21758	(21060306)		

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL 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
 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
491347.66	3620836.79	889.64126	(19072606)	491330.17
3620876.15	1219.07334	(21120824)		
491327.38	3620952.58	1447.51768	(20042406)	491338.31
3620938.00	1543.65152	(21120206)		
491324.46	3620969.34	1327.07004	(20042406)	491331.75
3620982.46	1231.06043	(20042406)		
491338.31	3620994.12	1150.51654	(20011702)	491345.60
3621010.89	1050.56615	(20011702)		

491368.92	3620934.36	1568.26673	(21122302)	491364.55
3620948.94	1410.43772	(21122302)		
491365.28	3620961.33	1304.85620	(21020106)	491363.09
3620975.90	1319.72041	(21120206)		
491364.55	3620987.57	1247.69429	(21120206)	491344.14
3620883.34	1117.64627	(21120824)		
491363.09	3620884.07	1034.93164	(21111224)	491362.01
3620545.80	520.25154	(21032707)		
491356.18	3620570.58	553.74793	(19100407)	491322.65
3620545.07	589.20113	(19100707)		
491347.43	3620535.60	516.38839	(21020508)	491265.80
3620676.27	1038.96603	(19100707)		
491284.02	3620690.84	868.54619	(19100407)	491297.14
3620671.89	790.22915	(19100407)		
491373.28	3620591.53	568.75125	(21032807)	

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** 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	178.92433 AT (	491266.76,	3620767.55,	64.84,
64.84,	0.00) DC				
	2ND HIGHEST VALUE IS	163.88891 AT (	491266.76,	3620785.05,	63.69,
63.69,	0.00) DC				
	3RD HIGHEST VALUE IS	147.35378 AT (	491266.03,	3620752.25,	65.81,
65.81,	0.00) DC				
	4TH HIGHEST VALUE IS	106.74950 AT (	491266.03,	3620737.67,	66.96,
66.96,	0.00) DC				
	5TH HIGHEST VALUE IS	86.63173 AT (	491268.95,	3620807.64,	63.06,
63.06,	0.00) DC				
	6TH HIGHEST VALUE IS	80.47904 AT (	491263.84,	3620721.64,	67.71,
67.71,	0.00) DC				

7TH HIGHEST VALUE IS 78.26193 AT (491311.22, 3620747.15, 68.05,
70.29, 0.00) DC
8TH HIGHEST VALUE IS 76.36166 AT (491214.28, 3620900.93, 45.05,
87.22, 0.00) DC
9TH HIGHEST VALUE IS 75.05251 AT (491307.57, 3620766.83, 66.37,
71.90, 0.00) DC
10TH HIGHEST VALUE IS 73.01479 AT (491308.30, 3620730.39, 69.16,
70.29, 0.00) DC

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

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE SUMMARY OF HIGHEST 1-HR

RESULTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

GROUP ID	DATE	NETWORK	RECEPTOR
(XR, YR, ZELEV, ZHILL, ZFLAG)	(YYMMDDHH)	AVERAGE CONC OF TYPE GRID-ID	
- - - - -	- - - - -	- - - - -	- - - - -
- - - - -	- - - - -	- - - - -	- - - - -

ALL HIGH 1ST HIGH VALUE IS 2535.45321 ON 20010102: AT (491214.28,
3620900.93, 45.05, 87.22, 0.00) DC

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

▲ *** AERMOD - VERSION 22112 *** *** C:\Users\anol1\OneDrive -
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*** AERMET - VERSION 22112 *** ***
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL 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 682 Informational Message(s)

A Total of 26304 Hours Were Processed

A Total of 249 Calm Hours Identified

A Total of 433 Missing Hours Identified (1.65 Percent)

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

***** WARNING MESSAGES *****
ME W186 120 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
0.50
ME W187 120 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

*** AERMOD Finishes Successfully ***

HARP2 - HRACalc (dated 22118) 1/25/2024 1:24:39 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: 2.83

Exposure Duration Bin Distribution

3rd Trimester Bin: 0.25
0<2 Years Bin: 2
2<9 Years Bin: 0.8299999
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: True
Dermal: True
Mother's milk: True
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

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02

Soil mixing depth (m): 0.01

Dermal climate: Mixed

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\anol1\OneDrive - Dudek\Desktop\HARP2\Fairmount Fire

Station\HARP\hra\Residential_Mit_Tier4FinalCancerRisk.csv

Cancer risk total by receptor saved to: C:\Users\anol1\OneDrive - Dudek\Desktop\HARP2\Fairmount Fire

Station\HARP\hra\Residential_Mit_Tier4FinalCancerRiskSumByRec.csv

Calculating chronic risk

Chronic risk breakdown by pollutant and receptor saved to: C:\Users\anol1\OneDrive - Dudek\Desktop\HARP2\Fairmount Fire

Station\HARP\hra\Residential_Mit_Tier4FinalNCChronicRisk.csv

Chronic risk total by receptor saved to: C:\Users\anol1\OneDrive - Dudek\Desktop\HARP2\Fairmount Fire

Station\HARP\hra\Residential_Mit_Tier4FinalNCChronicRiskSumByRec.csv

Calculating acute risk

Acute risk breakdown by pollutant and receptor saved to: C:\Users\anol1\OneDrive - Dudek\Desktop\HARP2\Fairmount Fire

Station\HARP\hra\Residential_Mit_Tier4FinalNCAcuteRisk.csv

Acute risk total by receptor saved to: C:\Users\anol1\OneDrive - Dudek\Desktop\HARP2\Fairmount Fire

Station\HARP\hra\Residential_Mit_Tier4FinalNCAcuteRiskSumByRec.csv

HRA ran successfully

[illegible]

[illegible]

98	ALL	UCART1	491506.6	3620598	6.86E-07	2.83YrCanc	6.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
99	ALL	UCART1	491516.2	3620598	6.64E-07	2.83YrCanc	6.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL	UCART1	491525.9	3620598	6.42E-07	2.83YrCanc	6.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
101	ALL	UCART1	491535.6	3620598	6.15E-07	2.83YrCanc	6.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
102	ALL	UCART1	491545.3	3620598	5.87E-07	2.83YrCanc	5.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
103	ALL	UCART1	491555	3620598	5.59E-07	2.83YrCanc	5.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
104	ALL	UCART1	491564.7	3620598	5.36E-07	2.83YrCanc	5.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
105	ALL	UCART1	491574.4	3620598	5.12E-07	2.83YrCanc	5.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
106	ALL	UCART1	491380.6	3620616	8.81E-07	2.83YrCanc	8.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
107	ALL	UCART1	491390.3	3620616	8.81E-07	2.83YrCanc	8.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
108	ALL	UCART1	491400	3620616	8.89E-07	2.83YrCanc	8.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
109	ALL	UCART1	491409.7	3620616	8.87E-07	2.83YrCanc	8.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
110	ALL	UCART1	491419.3	3620616	8.90E-07	2.83YrCanc	8.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
111	ALL	UCART1	491429	3620616	8.81E-07	2.83YrCanc	8.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
112	ALL	UCART1	491438.7	3620616	8.64E-07	2.83YrCanc	8.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
113	ALL	UCART1	491448.4	3620616	8.50E-07	2.83YrCanc	8.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
114	ALL	UCART1	491458.1	3620616	8.28E-07	2.83YrCanc	8.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
115	ALL	UCART1	491467.8	3620616	8.04E-07	2.83YrCanc	8.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00							

147	ALL	UCART1	491574.4	3620634	4.51E-07	2.83YrCanc	4.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
148	ALL	UCART1	491380.6	3620652	1.13E-06	2.83YrCanc	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
149	ALL	UCART1	491390.3	3620652	1.14E-06	2.83YrCanc	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
150	ALL	UCART1	491400	3620652	1.13E-06	2.83YrCanc	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
151	ALL	UCART1	491409.7	3620652	1.12E-06	2.83YrCanc	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
152	ALL	UCART1	491419.3	3620652	1.10E-06	2.83YrCanc	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
153	ALL	UCART1	491429	3620652	1.06E-06	2.83YrCanc	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
154	ALL	UCART1	491438.7	3620652	1.01E-06	2.83YrCanc	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
155	ALL	UCART1	491448.4	3620652	9.58E-07	2.83YrCanc	9.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
156	ALL	UCART1	491458.1	3620652	9.00E-07	2.83YrCanc	9.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
157	ALL	UCART1	491467.8	3620652	8.46E-07	2.83YrCanc	8.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
158	ALL	UCART1	491477.5	3620652	7.92E-07	2.83YrCanc	7.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
159	ALL	UCART1	491487.2	3620652	7.42E-07	2.83YrCanc	7.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
160	ALL	UCART1	491496.9	3620652	6.92E-07	2.83YrCanc	6.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
161	ALL	UCART1	491506.6	3620652	6.42E-07	2.83YrCanc	6.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
162	ALL	UCART1	491516.2	3620652	5.97E-07	2.83YrCanc	5.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
163	ALL	UCART1	491525.9	3620652	5.52E-07	2.83YrCanc	5.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
164	ALL	UCART1	491535.6	3620652	5.14E-07	2.83YrCanc	5.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00							

196	ALL	UCART1	491438.7	3620689	9.37E-07	2.83YrCanc	9.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
197	ALL	UCART1	491448.4	3620689	8.57E-07	2.83YrCanc	8.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
198	ALL	UCART1	491458.1	3620689	7.76E-07	2.83YrCanc	7.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
199	ALL	UCART1	491467.8	3620689	7.02E-07	2.83YrCanc	7.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
200	ALL	UCART1	491477.5	3620689	6.36E-07	2.83YrCanc	6.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
201	ALL	UCART1	491487.2	3620689	5.80E-07	2.83YrCanc	5.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
202	ALL	UCART1	491496.9	3620689	5.31E-07	2.83YrCanc	5.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
203	ALL	UCART1	491506.6	3620689	4.86E-07	2.83YrCanc	4.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
204	ALL	UCART1	491516.2	3620689	4.46E-07	2.83YrCanc	4.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
205	ALL	UCART1	491525.9	3620689	4.09E-07	2.83YrCanc	4.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
206	ALL	UCART1	491535.6	3620689	3.82E-07	2.83YrCanc	3.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
207	ALL	UCART1	491545.3	3620689	3.58E-07	2.83YrCanc	3.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
208	ALL	UCART1	491555	3620689	3.37E-07	2.83YrCanc	3.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
209	ALL	UCART1	491564.7	3620689	3.25E-07	2.83YrCanc	3.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
210	ALL	UCART1	491574.4	3620689	3.13E-07	2.83YrCanc	3.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
211	ALL	UCART1	491380.6	3620707	1.44E-06	2.83YrCanc	1.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
212	ALL	UCART1	491390.3	3620707	1.31E-06	2.83YrCanc	1.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
213	ALL	UCART1	491400	3620707	1.20E-06	2.83YrCanc	1.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00							

245	ALL	UCART1	491506.6	3620725	3.52E-07	2.83YrCanc	3.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
246	ALL	UCART1	491516.2	3620725	3.28E-07	2.83YrCanc	3.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
247	ALL	UCART1	491525.9	3620725	3.06E-07	2.83YrCanc	3.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
248	ALL	UCART1	491535.6	3620725	2.91E-07	2.83YrCanc	2.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
249	ALL	UCART1	491545.3	3620725	2.78E-07	2.83YrCanc	2.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
250	ALL	UCART1	491555	3620725	2.68E-07	2.83YrCanc	2.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
251	ALL	UCART1	491564.7	3620725	2.60E-07	2.83YrCanc	2.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
252	ALL	UCART1	491574.4	3620725	2.52E-07	2.83YrCanc	2.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
253	ALL	UCART1	491380.6	3620743	1.07E-06	2.83YrCanc	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
254	ALL	UCART1	491390.3	3620743	9.27E-07	2.83YrCanc	9.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
255	ALL	UCART1	491400	3620743	8.17E-07	2.83YrCanc	8.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
256	ALL	UCART1	491409.7	3620743	7.29E-07	2.83YrCanc	7.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
257	ALL	UCART1	491419.3	3620743	6.57E-07	2.83YrCanc	6.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
258	ALL	UCART1	491429	3620743	5.93E-07	2.83YrCanc	5.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
259	ALL	UCART1	491438.7	3620743	5.38E-07	2.83YrCanc	5.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
260	ALL	UCART1	491448.4	3620743	4.91E-07	2.83YrCanc	4.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
261	ALL	UCART1	491458.1	3620743	4.49E-07	2.83YrCanc	4.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
262	ALL	UCART1	491467.8	3620743	4.12E-07	2.83YrCanc	4.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00							

294	ALL	UCART1	491574.4	3620761	2.13E-07	2.83YrCanc	2.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
295	ALL	UCART1	491380.6	3620779	6.81E-07	2.83YrCanc	6.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
296	ALL	UCART1	491390.3	3620779	6.02E-07	2.83YrCanc	6.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
297	ALL	UCART1	491400	3620779	5.40E-07	2.83YrCanc	5.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
298	ALL	UCART1	491409.7	3620779	4.94E-07	2.83YrCanc	4.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
299	ALL	UCART1	491419.3	3620779	4.53E-07	2.83YrCanc	4.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
300	ALL	UCART1	491429	3620779	4.18E-07	2.83YrCanc	4.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
301	ALL	UCART1	491438.7	3620779	3.88E-07	2.83YrCanc	3.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
302	ALL	UCART1	491448.4	3620779	3.62E-07	2.83YrCanc	3.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
303	ALL	UCART1	491458.1	3620779	3.37E-07	2.83YrCanc	3.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
304	ALL	UCART1	491467.8	3620779	3.16E-07	2.83YrCanc	3.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
305	ALL	UCART1	491477.5	3620779	2.98E-07	2.83YrCanc	2.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
306	ALL	UCART1	491487.2	3620779	2.84E-07	2.83YrCanc	2.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
307	ALL	UCART1	491496.9	3620779	2.72E-07	2.83YrCanc	2.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
308	ALL	UCART1	491506.6	3620779	2.60E-07	2.83YrCanc	2.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
309	ALL	UCART1	491516.2	3620779	2.49E-07	2.83YrCanc	2.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
310	ALL	UCART1	491525.9	3620779	2.39E-07	2.83YrCanc	2.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
311	ALL	UCART1	491535.6	3620779	2.28E-07	2.83YrCanc	2.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00							

343	ALL	UCART1	491438.7	3620815	3.03E-07	2.83YrCanc	3.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
344	ALL	UCART1	491448.4	3620815	2.86E-07	2.83YrCanc	2.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
345	ALL	UCART1	491458.1	3620815	2.72E-07	2.83YrCanc	2.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
346	ALL	UCART1	491467.8	3620815	2.59E-07	2.83YrCanc	2.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
347	ALL	UCART1	491477.5	3620815	2.47E-07	2.83YrCanc	2.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
348	ALL	UCART1	491487.2	3620815	2.38E-07	2.83YrCanc	2.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
349	ALL	UCART1	491496.9	3620815	2.28E-07	2.83YrCanc	2.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
350	ALL	UCART1	491506.6	3620815	2.19E-07	2.83YrCanc	2.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
351	ALL	UCART1	491516.2	3620815	2.09E-07	2.83YrCanc	2.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
352	ALL	UCART1	491525.9	3620815	2.00E-07	2.83YrCanc	2.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
353	ALL	UCART1	491535.6	3620815	1.91E-07	2.83YrCanc	1.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
354	ALL	UCART1	491545.3	3620815	1.83E-07	2.83YrCanc	1.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
355	ALL	UCART1	491555	3620815	1.75E-07	2.83YrCanc	1.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
356	ALL	UCART1	491564.7	3620815	1.71E-07	2.83YrCanc	1.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
357	ALL	UCART1	491574.4	3620815	1.67E-07	2.83YrCanc	1.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
358	ALL	UCART1	491380.6	3620833	4.22E-07	2.83YrCanc	4.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
359	ALL	UCART1	491390.3	3620833	3.85E-07	2.83YrCanc	3.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
360	ALL	UCART1	491400	3620833	3.52E-07	2.83YrCanc	3.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00							

392	ALL	UCART1	491506.6	3620851	1.87E-07	2.83YrCanc	1.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
393	ALL	UCART1	491516.2	3620851	1.77E-07	2.83YrCanc	1.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
394	ALL	UCART1	491525.9	3620851	1.68E-07	2.83YrCanc	1.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
395	ALL	UCART1	491535.6	3620851	1.62E-07	2.83YrCanc	1.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
396	ALL	UCART1	491545.3	3620851	1.57E-07	2.83YrCanc	1.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
397	ALL	UCART1	491555	3620851	1.53E-07	2.83YrCanc	1.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
398	ALL	UCART1	491564.7	3620851	1.46E-07	2.83YrCanc	1.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
399	ALL	UCART1	491574.4	3620851	1.40E-07	2.83YrCanc	1.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
400	ALL	UCART1	491380.6	3620869	4.20E-07	2.83YrCanc	4.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
401	ALL	UCART1	491390.3	3620869	3.79E-07	2.83YrCanc	3.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
402	ALL	UCART1	491400	3620869	3.48E-07	2.83YrCanc	3.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
403	ALL	UCART1	491409.7	3620869	3.21E-07	2.83YrCanc	3.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
404	ALL	UCART1	491419.3	3620869	2.98E-07	2.83YrCanc	2.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
405	ALL	UCART1	491429	3620869	2.78E-07	2.83YrCanc	2.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
406	ALL	UCART1	491438.7	3620869	2.62E-07	2.83YrCanc	2.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
407	ALL	UCART1	491448.4	3620869	2.47E-07	2.83YrCanc	2.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
408	ALL	UCART1	491458.1	3620869	2.34E-07	2.83YrCanc	2.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
409	ALL	UCART1	491467.8	3620869	2.21E-07	2.83YrCanc	2.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00							

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55	ALL	UCART1	491496.9	3620562	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-04
56	ALL	UCART1	491506.6	3620562	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04
57	ALL	UCART1	491516.2	3620562	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-04
58	ALL	UCART1	491525.9	3620562	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-04
59	ALL	UCART1	491535.6	3620562	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-04
60	ALL	UCART1	491545.3	3620562	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-04
61	ALL	UCART1	491555	3620562	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-04
62	ALL	UCART1	491564.7	3620562	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04
63	ALL	UCART1	491574.4	3620562	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-04
64	ALL	UCART1	491380.6	3620580	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-04
65	ALL	UCART1	491390.3	3620580	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-04
66	ALL	UCART1	491400	3620580	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-04
67	ALL	UCART1	491409.7	3620580	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-04
68	ALL	UCART1	491419.3	3620580	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-04
69	ALL	UCART1	491429	3620580	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-04
70	ALL	UCART1	491438.7	3620580	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-04
71	ALL	UCART1	491448.4	3620580	NonC															

110	ALL	UCART1	491419.3	3620616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.87E-04
111	ALL	UCART1	491429	3620616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-04
112	ALL	UCART1	491438.7	3620616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-04
113	ALL	UCART1	491448.4	3620616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-04
114	ALL	UCART1	491458.1	3620616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-04
115	ALL	UCART1	491467.8	3620616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-04
116	ALL	UCART1	491477.5	3620616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-04
117	ALL	UCART1	491487.2	3620616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-04
118	ALL	UCART1	491496.9	3620616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-04
119	ALL	UCART1	491506.6	3620616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-04
120	ALL	UCART1	491516.2	3620616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-04
121	ALL	UCART1	491525.9	3620616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-04
122	ALL	UCART1	491535.6	3620616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-04
123	ALL	UCART1	491545.3	3620616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-04
124	ALL	UCART1	491555	3620616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04
125	ALL	UCART1	491564.7	3620616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-04
126	ALL	UCART1	491574.4																	

		UCART1	491545.3	3620652	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04
166 ALL		UCART1	491555	3620652	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04
167 ALL		UCART1	491564.7	3620652	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04
168 ALL		UCART1	491574.4	3620652	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04
169 ALL		UCART1	491380.6	3620671	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.11E-04
170 ALL		UCART1	491390.3	3620671	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.98E-04
171 ALL		UCART1	491400	3620671	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-04
172 ALL		UCART1	491409.7	3620671	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-04
173 ALL		UCART1	491419.3	3620671	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.32E-04
174 ALL		UCART1	491429	3620671	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-04
175 ALL		UCART1	491438.7	3620671	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-04
176 ALL		UCART1	491448.4	3620671	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-04
177 ALL		UCART1	491458.1	3620671	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-04
178 ALL		UCART1	491467.8	3620671	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-04
179 ALL		UCART1	491477.5	3620671	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-04
180 ALL		UCART1	491487.2	3620671	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-04
181 ALL		UCART1	491496.9	3620671	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-04
182 ALL		UCART1	491506.6	3620671	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04
183 ALL		UCART1	491516.2	3620671	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04
184 ALL		UCART1	491525.9	3620671	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04
185 ALL		UCART1	491535.6	3620671	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04
186 ALL		UCART1	491545.3	3620671	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04
187 ALL		UCART1	491555	3620671	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04
188 ALL		UCART1	491564.7	3620671	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04
189 ALL		UCART1	491574.4	3620671	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04
190 ALL		UCART1	491380.6	3620689	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E-04
191 ALL		UCART1	491390.3	3620689	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.39E-04
192 ALL		UCART1	491400	3620689	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-04
193 ALL		UCART1	491409.7	3620689	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-04
194 ALL		UCART1	491419.3	3620689	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-04
195 ALL		UCART1	491429	3620689	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-04
196 ALL		UCART1	491438.7	3620689	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-04
197 ALL		UCART1	491448.4	3620689	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-04
198 ALL		UCART1	491458.1	3620689	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-04
199 ALL		UCART1	491467.8	3620689	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-04
200 ALL		UCART1	491477.5	3620689	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-04
201 ALL		UCART1	491487.2	3620689	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04
202 ALL		UCART1	491496.9	3620689	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-04
203 ALL		UCART1	491506.6	3620689	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04
204 ALL		UCART1	491516.2	3620689	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04
205 ALL		UCART1	491525.9	3620689	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-04
206 ALL		UCART1	491535.6	3620689	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04
207 ALL		UCART1	491545.3	3620689	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04
208 ALL		UCART1	491555	3620689	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04
209 ALL		UCART1	491564.7	3620689	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04
210 ALL		UCART1	491574.4	3620689	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04
211 ALL		UCART1	491380.6	3620707	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.86E-04
212 ALL		UCART1	491390.3	3620707	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-04
213 ALL		UCART1	491400	3620707	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-04
214 ALL		UCART1	491409.7	3620707	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-04
215 ALL		UCART1	491419.3	3620707	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-04
216 ALL		UCART1	491429	3620707	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.87E-04	0.00E+00	0.0					

275	ALL	UCART1	491390.3	3620761	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-04
276	ALL	UCART1	491400	3620761	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-04
277	ALL	UCART1	491409.7	3620761	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-04
278	ALL	UCART1	491419.3	3620761	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-04
279	ALL	UCART1	491429	3620761	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-04
280	ALL	UCART1	491438.7	3620761	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04
281	ALL	UCART1	491448.4	3620761	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04
282	ALL	UCART1	491458.1	3620761	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04
283	ALL	UCART1	491467.8	3620761	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04
284	ALL	UCART1	491477.5	3620761	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04
285	ALL	UCART1	491487.2	3620761	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04
286	ALL	UCART1	491496.9	3620761	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04
287	ALL	UCART1	491506.6	3620761	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04
288	ALL	UCART1	491516.2	3620761	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04
289	ALL	UCART1	491525.9	3620761	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04
290	ALL	UCART1	491535.6	3620761	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04
291	ALL	UCART1	491545.3																	

330	ALL	UCART1	491516.2	3620797	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
331	ALL	UCART1	491525.9	3620797	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
332	ALL	UCART1	491535.6	3620797	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
333	ALL	UCART1	491545.3	3620797	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
334	ALL	UCART1	491555	3620797	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
335	ALL	UCART1	491564.7	3620797	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
336	ALL	UCART1	491574.4	3620797	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04
337	ALL	UCART1	491380.6	3620815	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
338	ALL	UCART1	491390.3	3620815	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04
339	ALL	UCART1	491400	3620815	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04
340	ALL	UCART1	491409.7	3620815	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04
341	ALL	UCART1	491419.3	3620815	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04
342	ALL	UCART1	491429	3620815	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
343	ALL	UCART1	491438.7	3620815	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04
344	ALL	UCART1	491448.4	3620815	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04
345	ALL	UCART1	491458.1	3620815	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04
346	ALL	UCART1	491467.8																	

440	ALL	UCART1	491564.7	3620887	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-05
441	ALL	UCART1	491574.4	3620887	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.74E-05
442	ALL		490849.2	3620945	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-05
443	ALL		490856.4	3620922	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-05
444	ALL		490865.9	3620906	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-05
445	ALL		490894.3	3620929	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-05
446	ALL		490890	3620953	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-05
447	ALL		490887.8	3620979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05
448	ALL		490903.1	3620989	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-05
449	ALL		490912.6	3621006	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05
450	ALL		490923.5	3621026	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05
451	ALL		490929.3	3621045	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05
452	ALL		490936.6	3621069	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05
453	ALL		490956.3	3621064	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05
454	ALL		490973.1	3621065	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05
455	ALL		490990.5	3621069	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-05
456	ALL		491008	3621067	NonCancer	0.00E+00	0.00E+00	0.00E+00</												

495	ALL		491263.8	3620977	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-04
496	ALL		491270.4	3620988	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-04
497	ALL		491295.2	3620975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-04
498	ALL		491246.4	3621010	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-04
499	ALL		491256.6	3621026	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-04
500	ALL		491263.1	3621036	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-04
501	ALL		491271.1	3621049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-04
502	ALL		491300.3	3621035	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-04
503	ALL		491290.8	3621020	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-04
504	ALL		491285	3621009	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-04
505	ALL		491278.4	3620999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-04
506	ALL		491299.6	3620986	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-04
507	ALL		491303.9	3620996	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-04
508	ALL		491313.4	3621011	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-04
509	ALL		491320	3621019	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-04
510	ALL		491308.3	3620822	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-04
511	ALL		491306.8	3620803	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.89E-04
512	ALL		491308.3	3620784	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03
513	ALL		491307.6	3620767	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03
514	ALL		491311.2	3620747	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03
515	ALL		491308.3	3620730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03
516	ALL		491344.7	3620730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03
517	ALL		491343.3	3620746	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.59E-04
518	ALL		491344.7	3620763	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-04
519	ALL		491343.3	3620780	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-04
520	ALL		491344.7	3620800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-04
521	ALL		491346.2	3620816	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-04
522	ALL		491347.7	3620837	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-04
523	ALL		491330.2	3620876	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-04
524	ALL		491327.4	3620953	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.71E-04
525	ALL		491338.3	3620938	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-04
526	ALL		491324.5	3620969	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-04
527	ALL		491331.8	3620982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-04
528	ALL		491338.3	3620994	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-04
529	ALL		491345.6	3621011	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-04
530	ALL		491368.9	3620934	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-04
531	ALL		491364.6	3620949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-04
532	ALL		491365.3	3620961	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-04
533	ALL		491363.1	3620976	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-04
534	ALL		491364.6	3620988	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-04
535	ALL		491344.1	3620883	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-04
536	ALL		491363.1	3620884	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04
537	ALL		491362	3620546	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-04
538	ALL		491356.2	3620571	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-04
539	ALL		491322.7	3620545	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-04
540	ALL		491347.4	3620536	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-04
541	ALL		491265.8	3620676	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-04
542	ALL		491284	3620691	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.94E-04
543	ALL		491297.1	3620672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.07E-04
544	ALL		491373.3	3620592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-04

2029 Operation Mobile Source Assumptions Summary

							Emission Factors											
Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	DPM	TOG	
Trucks	HHDT	0.5	124	62	45,260	22,630	Running Exhaust, Tire Wear, and Break Wear (grams/mile)										0.0268	0.0164
Employees	LDA, LDT1, LDT2,and MCY Composite	0	0	0	0	0	0.0144	0.0378	0.6747	0.0027	0.0169	0.0059	268.4696	0.0032	0.0043	0.0000	0.0195	
Notes:																		
Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)	PM10 PM2.5 Paved Road - PM only (grams/mile)											
Trucks	HHDT	0.5	124	62	45,260	22,630	1.6800 0.4124											
Employees	LDA, LDT1, LDT2,and MCY Composite	0	0	0	0	0	0.2998 0.0736											
Project Vehicle	EMFAC Class	Max Daily Trips (trips/day)	Annual Trips (trips/year)	ROG NOx CO SOx PM10 PM2.5 CO2 CH4 N2O DPM TOG Starting Exhaust, Hot Soak, Running Loss Evaporative, Resting Loss Evap, Diurnal Loss Evap (grams/trip)														
Trucks	HHDT	124	45,260	0.0000 2.9028 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000														
Employees	LDA, LDT1, LDT2,and MCY Composite	0	0	0.2457 0.2144 2.5364 0.0006 0.0017 0.0016 63.9161 0.0564 0.0284 0.0000 0.2690														
Project Vehicle	EMFAC Class	Idling Minutes per Day (min/day)	Idling Minutes per Year (min/year)	ROG NOx CO SOx PM10 PM2.5 CO2 CH4 N2O DPM TOG Idling (grams/idle-min/vehicle)														
Trucks	HHDT	1,860	678,900	0.0499 0.5556 0.7310 0.0010 0.0003 0.0003 107.5996 0.0023 0.0170 0.0003 0.0568														

2029 Operation Mobile Source Emissions Summary - Annual Emissions - Health Risk Assessment

Emissions - Annual											
(Tons/Year)						(Metric Tons/Year)					
ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e		
Running Exhaust, Tire Wear, and Break Wear											
0.00	0.04	0.00	0.00	0.00	0.00	0.00	33.74	0.00	0.01	35.32	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0.00	0.04	0.00	0.00	0.00	0.00	0.00	33.74	0.00	0.01	35.32	
PM10 PM2.5											
Paved Road - PM only											
					0.04	0.01					
					0.00	0.00					
Subtotal					0.04	0.01					
ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e		
Starting Exhaust, Hot Soak, Running Loss Evaporative, Resting Loss Evap, Diurnal Loss Evap											
0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Subtotal											
ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e		
Idling											
0.04	0.42	0.55	0.00	0.00	0.00	0.00	73.05	0.00	0.01	76.52	
0.04	0.42	0.55	0.00	0.00	0.00	0.00	73.05	0.00	0.01	76.52	
Subtotal											
TOTAL	0.04	0.60	0.55	0.00	0.05	0.01	106.79	0.0016	0.017	111.84	

Table 5. Operation Mobile Source Emissions Factors - EMFAC2021 Annual ROG

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	STEX HOTSOAK RUNLOSS ROG RESTLOSS									
								ROG_RUNEX	ROG_IDLEX	ROG_STREX	ROG_HOTSOAK	ROG_RUNLOSS	ROG_DIURN	ROG_RESTLOSS - Calculated	ROG_DIURN - Calculated	DIURN_Combined - Calculated	ROG_IDLEX - Calculated (grams/Idle- min/vehicle)
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	(g/trip)
San Diego	2029	HHDT	Diesel	Aggregate	16018.91072	1941149.09	242143.0681	0.014399035	5.460111052	0	0	0	0				0.049909607
							HHDT	0.0144	5.4601	0.0000	0.0000	0.0000	0.0000	-	-	0.0000	0.0499
San Diego	2029	LDA	Gasoline	Aggregate	1131921.21	46214128.07	5251577.712	0.006822134	0	0.232569073	0.075894359	0.209280211	1.29621251				0
San Diego	2029	LDA	Diesel	Aggregate	3138.761023	94251.37113	13322.6059	0.028083337	0	0	0	0	0				0
San Diego	2029	LDA	Electricity	Aggregate	99214.84931	4857772.09	484308.9726	0	0	0	0	0	0				0
San Diego	2029	LDA	Plug-in Hy	Aggregate	43055.81268	1985991.602	178035.7854	0.001695729	0	0.165829256	0.041232185	0.047889841	0.510165051				
San Diego	2029	LDT1	Gasoline	Aggregate	110049.4691	3842948.942	475235.4461	0.028529049	0	0.463228064	0.176102104	0.515523539	2.976534005				
San Diego	2029	LDT1	Diesel	Aggregate	9.071905132	138.4283213	25.41025054	0.322551656	0	0	0	0	0				
San Diego	2029	LDT1	Electricity	Aggregate	640.2791948	32651.8209	3159.082111	0	0	0	0	0	0				0
San Diego	2029	LDT1	Plug-in Hy	Aggregate	490.0673486	24788.70042	2026.428486	0.001564016	0	0.165829256	0.023260909	0.01973335	0.281038993				0
San Diego	2029	LDT2	Gasoline	Aggregate	561447.6069	23041051	2607110.654	0.010032892	0	0.284830259	0.073495595	0.210509021	1.317982126				0
San Diego	2029	LDT2	Diesel	Aggregate	2168.08014	90063.21715	10164.13276	0.025761875	0	0	0	0	0				0
San Diego	2029	LDT2	Electricity	Aggregate	8269.630948	303515.3785	41420.28342	0	0	0	0	0	0				0
San Diego	2029	LDT2	Plug-in Hy	Aggregate	7638.596998	365897.2156	31585.59859	0.001620505	0	0.165829256	0.02671981	0.024851655	0.321310816				0
San Diego	2029	MCY	Gasoline	Aggregate	68037.33108	411440.8694	136074.6622	1.233144508	0	1.174204868	3.60324197	3.809251547	4.242930066				0
					LDA, LDT1, LDT2, and MCY Composite			0.0144	0.0000	0.2457	0.0917	0.2237	1.2871	0.308423	0.308423	1.1779	0.0000

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: County
Region: San Diego
Calendar Year: 2029
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV calculated based on total VMT.
Model Year: Aggregated

Notes:

Idle Duration:	
HHDT	109.4 min/day
MHDT	5.86 min/day
LHDT1	1.74 min/day
LHDT2	1.87 min/day
OBUS	5.9 min/day
SBUS	31.8 min/day

Table 6. Operation Mobile Source Emissions Factors - EMFAC2021 Annual TOG

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	STEX HOTSOAK RUNLOSS TOG RESTLOSS									
								TOG_RUNEX	TOG_IDLEX	TOG_STREX	TOG_HOTSOAK	TOG_RUNLOSS	TOG_DIURN	TOG_RESTLOSS - Calculated	TOG_DIURN - Calculated	DIURN_Combined - Calculated	TOG_IDLEX - Calculated (grams/Idle- min/vehicle)
(g/mile)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	(g/trip)	(g/trip)	(g/trip)	(g/trip)					
San Diego	2029	HHDT	Diesel	Aggregate	16018.91072	1941149.09	242143.0681	0.016392205	6.215920802	0	0	0	0				0.056818289
							HHDT	0.0164	6.2159	0.0000	0.0000	0.0000	0.0000	#REF!	-	#REF!	0.0568
San Diego	2029	LDA	Gasolin	Aggregate	1131921.21	46214128.07	5251577.712	0.009954842	0	0.254633861	0.075894359	0.209280211	1.29621251				0
San Diego	2029	LDA	Diesel	Aggregate	3138.761023	94251.37113	13322.6059	0.031971012	0	0	0	0	0				0
San Diego	2029	LDA	Electric	Aggregate	99214.84931	4857772.09	484308.9726	0	0	0	0	0	0				0
San Diego	2029	LDA	Plug-in	Aggregate	43055.81268	1985991.602	178035.7854	0.002474404	0	0.181562162	0.041232185	0.047889841	0.510165051				
San Diego	2029	LDT1	Gasolin	Aggregate	110049.4691	3842948.942	475235.4461	0.041629521	0	0.507176423	0.176102104	0.515523539	2.976534005				
San Diego	2029	LDT1	Diesel	Aggregate	9.071905132	138.4283213	25.41025054	0.367203615	0	0	0	0	0				
San Diego	2029	LDT1	Electric	Aggregate	640.2791948	32651.8209	3159.082111	0	0	0	0	0	0				0
San Diego	2029	LDT1	Plug-in	Aggregate	490.0673486	24788.70042	2026.428486	0.002282208	0	0.181562162	0.023260909	0.01973335	0.281038993				0
San Diego	2029	LDT2	Gasolin	Aggregate	561447.6069	23041051	2607110.654	0.014639972	0	0.311853282	0.073495595	0.210509021	1.317982126				0
San Diego	2029	LDT2	Diesel	Aggregate	2168.08014	90063.21715	10164.13276	0.029328182	0	0	0	0	0				0
San Diego	2029	LDT2	Electric	Aggregate	8269.630948	303515.3785	41420.28342	0	0	0	0	0	0				0
San Diego	2029	LDT2	Plug-in	Aggregate	7638.596998	365897.2156	31585.59859	0.002364636	0	0.181562162	0.02671981	0.024851655	0.321310816				0
San Diego	2029	MCY	Gasolin	Aggregate	68037.33108	411440.8694	136074.6622	1.504795296	0	1.27711539	3.60324197	3.809251547	4.242930066				0
					LDA, LDT1, LDT2, and MCY Composite			0.0195	0.0000	0.2690	0.0917	0.2237	1.2871	0.308423	0.308423	1.2012	0.0000

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: County
Region: San Diego
Calendar Year: 2029
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV calculated based on total VMT.
Model Year: Aggregated

Notes:

Idle Duration:	
HHDT	109.4 min/day
MHDT	5.86 min/day
LHDT1	1.74 min/day
LHDT2	1.87 min/day
OBUS	5.9 min/day
SBUS	31.8 min/day

Table 7. Operation Mobile Source Emissions Factors - EMFAC2021 Annual NOx

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	NOx_RUNEX (g/mile)	NOx_IDLEX (g/vehicle/day)	NOx_STREX (g/trip)	NOx_IDLEX - Calculated (grams/Idle- min/vehicle)
San Diego	2029	HHDT	Diesel	Aggregate	16018.91072	1941149.09	242143.0681 HHDT	1.642447656 1.6424	60.77983015 60.7798	2.902792058 2.9028	0.555574316 0.5556
San Diego	2029	LDA	Gasoline	Aggregate	1131921.21	46214128.07	5251577.712	0.028299454	0	0.207313383	0
San Diego	2029	LDA	Diesel	Aggregate	3138.761023	94251.37113	13322.6059	0.101811529	0	0	0
San Diego	2029	LDA	Electricity	Aggregate	99214.84931	4857772.09	484308.9726	0	0	0	0
San Diego	2029	LDA	Plug-in Hybrid	Aggregate	43055.81268	1985991.602	178035.7854	0.003257348	0	0.112850708	0
San Diego	2029	LDT1	Gasoline	Aggregate	110049.4691	3842948.942	475235.4461	0.108267368	0	0.348485515	0
San Diego	2029	LDT1	Diesel	Aggregate	9.071905132	138.4283213	25.41025054	1.103557417	0	0	0
San Diego	2029	LDT1	Electricity	Aggregate	640.2791948	32651.8209	3159.082111	0	0	0	0
San Diego	2029	LDT1	Plug-in Hybrid	Aggregate	490.0673486	24788.70042	2026.428486	0.003004339	0	0.112850708	0
San Diego	2029	LDT2	Gasoline	Aggregate	561447.6069	23041051	2607110.654	0.047619124	0	0.262949817	0
San Diego	2029	LDT2	Diesel	Aggregate	2168.08014	90063.21715	10164.13276	0.039928742	0	0	0
San Diego	2029	LDT2	Electricity	Aggregate	8269.630948	303515.3785	41420.28342	0	0	0	0
San Diego	2029	LDT2	Plug-in Hybrid	Aggregate	7638.596998	365897.2156	31585.59859	0.003112849	0	0.112850708	0
San Diego	2029	MCY	Gasoline	Aggregate	68037.33108	411440.8694	136074.6622	0.552413997	0	0.114448139	0
LDA, LDT1, LDT2, and MCY Composite								0.0378	0.0000	0.2144	0.0000

Source: EMFAC2021 (v1.0.2) Emission Rates

Region Type: County

Region: San Diego

Calendar Year: 2029

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV calculated based on total VMT.

Model Year: Aggregated

Notes:

Idle Duration:

HHDT 109.4 min/day

MHDT 5.86 min/day

LHDT1 1.74 min/day

LHDT2 1.87 min/day

OBUS 5.9 min/day

SBUS 31.8 min/day

Table 8. Operation Mobile Source Emissions Factors - EMFAC2021 Annual CO

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CO_RUNEX (g/mile)	CO_IDLEX (g/vehicle/day)	CO_STREX (g/trip)	CO_IDLEX - Calculated (grams/Idle- min/vehicle)
San Diego	2029	HHDT	Diesel	Aggregate	16018.91072	1941149.09	242143.0681	0.063825851	79.96661342	0	0.730956247
							HHDT	0.0638	79.9666	0.0000	0.7310
San Diego	2029	LDA	Gasolin	Aggregate	1131921.21	46214128.07	5251577.712	0.596811017	0	2.403970218	0
San Diego	2029	LDA	Diesel	Aggregate	3138.761023	94251.37113	13322.6059	0.506278074	0	0	0
San Diego	2029	LDA	Electric	Aggregate	99214.84931	4857772.09	484308.9726	0	0	0	0
San Diego	2029	LDA	Plug-in	Aggregate	43055.81268	1985991.602	178035.7854	0.222816673	0	1.270662828	0
San Diego	2029	LDT1	Gasolin	Aggregate	110049.4691	3842948.942	475235.4461	1.279539633	0	4.447232253	0
San Diego	2029	LDT1	Diesel	Aggregate	9.071905132	138.4283213	25.41025054	2.134298734	0	0	0
San Diego	2029	LDT1	Electric	Aggregate	640.2791948	32651.8209	3159.082111	0	0	0	0
San Diego	2029	LDT1	Plug-in	Aggregate	490.0673486	24788.70042	2026.428486	0.205791031	0	1.270662828	0
San Diego	2029	LDT2	Gasolin	Aggregate	561447.6069	23041051	2607110.654	0.716642862	0	2.827751198	0
San Diego	2029	LDT2	Diesel	Aggregate	2168.08014	90063.21715	10164.13276	0.270257362	0	0	0
San Diego	2029	LDT2	Electric	Aggregate	8269.630948	303515.3785	41420.28342	0	0	0	0
San Diego	2029	LDT2	Plug-in	Aggregate	7638.596998	365897.2156	31585.59859	0.213069938	0	1.270662828	0
San Diego	2029	MCY	Gasolin	Aggregate	68037.33108	411440.8694	136074.6622	12.68554747	0	7.658093011	0
						LDA, LDT1, LDT2, and MCY Composite		0.6747	0.0000	2.5364	0.0000

Source: EMFAC2021 (v1.0.2) Emission Rates

Region Type: County

Region: San Diego

Calendar Year: 2029

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV calculated based on total VMT.

Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day
SBUS	31.8	min/day

Table 9. Operation Mobile Source Emissions Factors - EMFAC2021 Annual SO2

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	SO2_RUNEX (g/mile)	SO2_IDLEX (g/vehicle/day)	SO2_STREX (g/trip)	SO2_IDLEX - Calculated (grams/Idle- min/vehicle)
San Diego	2029	HHDT	Diesel	Aggregate	16018.91072	1941149.09	242143.0681	0.014117379	0.111468108	0	0.001018904
							HHDT	0.0141	0.1115	0.0000	0.0010
San Diego	2029	LDA	Gasolin	Aggregate	1131921.21	46214128.07	5251577.712	0.002659523	0	0.000619626	0
San Diego	2029	LDA	Diesel	Aggregate	3138.761023	94251.37113	13322.6059	0.002299522	0	0	0
San Diego	2029	LDA	Electric	Aggregate	99214.84931	4857772.09	484308.9726	0	0	0	0
San Diego	2029	LDA	Plug-in	Aggregate	43055.81268	1985991.602	178035.7854	0.001352447	0	0.000599139	0
San Diego	2029	LDT1	Gasolin	Aggregate	110049.4691	3842948.942	475235.4461	0.003288222	0	0.000800439	0
San Diego	2029	LDT1	Diesel	Aggregate	9.071905132	138.4283213	25.41025054	0.003936446	0	0	0
San Diego	2029	LDT1	Electric	Aggregate	640.2791948	32651.8209	3159.082111	0	0	0	0
San Diego	2029	LDT1	Plug-in	Aggregate	490.0673486	24788.70042	2026.428486	0.001247916	0	0.000640861	0
San Diego	2029	LDT2	Gasolin	Aggregate	561447.6069	23041051	2607110.654	0.003282062	0	0.000771119	0
San Diego	2029	LDT2	Diesel	Aggregate	2168.08014	90063.21715	10164.13276	0.002938521	0	0	0
San Diego	2029	LDT2	Electric	Aggregate	8269.630948	303515.3785	41420.28342	0	0	0	0
San Diego	2029	LDT2	Plug-in	Aggregate	7638.596998	365897.2156	31585.59859	0.001292704	0	0.000695345	0
San Diego	2029	MCY	Gasolin	Aggregate	68037.33108	411440.8694	136074.6622	0.002005626	0	0.000441195	0
							LDA, LDT1, LDT2, and MCY Composite	0.0027	0.0000	0.0006	0.0000

Source: EMFAC2021 (v1.0.2) Emission Rates

Region Type: County

Region: San Diego

Calendar Year: 2029

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV calculated based on total VMT.

Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day
SBUS	31.8	min/day

Table 10. Operation Mobile Source Emissions Factors - EMFAC2021 Annual PM10

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	PM10_RUNEX	PM10_IDLEX	PM10_STREX	PM10_PMTW	PM10_PMBW	PM10_Combined - Calculated	PM10_IDLEX - Calculated	DPM_RUNEX (Dsl Only)	DPM_STREX (Dsl Only)	DPM_IDLEX - Calculated (Dsl Only)
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/mile)	(g/mile)	(g/mile)	(grams/Idle- min/vehicle)	(g/mile)	(g/trip)	(grams/Idle- min/vehicle)
San Diego	2029	HHDT	Diesel	Aggregate	16018.91072	1941149.09	242143.0681	0.026767211	0.029208939	0	0.035349483	0.080197196		0.000266992			
							HHDT	0.0268	0.0292	0.0000	0.0353	0.0802	0.142313	0.0003	0.0268	0.0000	0.0003
San Diego	2029	LDA	Gasolir	Aggregate	1131921.21	46214128.07	5251577.712	0.001323548	0	0.001767023	0.008000063	0.007410921		0	0	0	0
San Diego	2029	LDA	Diesel	Aggregate	3138.761023	94251.37113	13322.6059	0.008973576	0	0	0.008000063	0.007645864		0	0	0	0
San Diego	2029	LDA	Electric	Aggregate	99214.84931	4857772.09	484308.9726	0	0	0	0.008000002	0.004380489		0	0	0	0
San Diego	2029	LDA	Plug-in	Aggregate	43055.81268	1985991.602	178035.7854	0.000589845	0	0.001709512	0.008000002	0.003929999		0	0	0	0
San Diego	2029	LDT1	Gasolir	Aggregate	110049.4691	3842948.942	475235.4461	0.002029478	0	0.002559345	0.008000063	0.009343967		0	0	0	0
San Diego	2029	LDT1	Diesel	Aggregate	9.071905132	138.4283213	25.41025054	0.207229238	0	0	0.008000063	0.010292416		0	0	0	0
San Diego	2029	LDT1	Electric	Aggregate	640.2791948	32651.8209	3159.082111	0	0	0	0.008000002	0.004372364		0	0	0	0
San Diego	2029	LDT1	Plug-in	Aggregate	490.0673486	24788.70042	2026.428486	0.000357984	0	0.001119763	0.008000002	0.003954462		0	0	0	0
San Diego	2029	LDT2	Gasolir	Aggregate	561447.6069	23041051	2607110.654	0.00139321	0	0.001784302	0.008000063	0.008947213		0	0	0	0
San Diego	2029	LDT2	Diesel	Aggregate	2168.08014	90063.21715	10164.13276	0.004747468	0	0	0.008000063	0.008970797		0	0	0	0
San Diego	2029	LDT2	Electric	Aggregate	8269.630948	303515.3785	41420.28342	0	0	0	0.008000002	0.004370354		0	0	0	0
San Diego	2029	LDT2	Plug-in	Aggregate	7638.596998	365897.2156	31585.59859	0.000451088	0	0.001356698	0.008000002	0.003945212		0	0	0	0
San Diego	2029	MCY	Gasolir	Aggregate	68037.33108	411440.8694	136074.6622	0.002502483	0	0.003316246	0.004000031	0.012000003		0	0	0	0
					LDA, LDT1, LDT2, and MCY Composite			0.0013	0.0000	0.0017	0.0080	0.0077	0.016937	0.0000	0.0000	0.0000	0.0000

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: County
Region: San Diego
Calendar Year: 2029
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV calculated based on total VMT.
Model Year: Aggregated

Notes:

Idle Duration:	
HHDT	109.4 min/day
MHDT	5.86 min/day
LHDT1	1.74 min/day
LHDT2	1.87 min/day
OBUS	5.9 min/day
SBUS	31.8 min/day

Table 11. Operation Mobile Source Emissions Factors - EMFAC2021 Annual PM2.5

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	PM2.5_RUNEX	PM2.5_IDLEX	PM2.5_STREX	PM2.5_PMTW	PM2.5_PMBW	PM2.5_Combined - Calculated	PM2.5_IDLEX - Calculated (grams/Idle- min/vehicle)
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/mile)	(g/mile)	(g/mile)	
San Diego	2029	HHDT	Diesel	Aggregate	16018.91072	1941149.09	242143.0681	0.025609273	0.027945373	0	0.008837371	0.028069018		0
							HHDT	0.0256	0.0279	0.0000	0.0088	0.0281	0.062515	0.0003
San Diego	2029	LDA	Gasolin	Aggregate	1131921.21	46214128.07	5251577.712	0.001216953	0	0.001624712	0.002000016	0.002593822		0
San Diego	2029	LDA	Diesel	Aggregate	3138.761023	94251.37113	13322.6059	0.008585383	0	0	0.002000016	0.002676053		0
San Diego	2029	LDA	Electric	Aggregate	99214.84931	4857772.09	484308.9726	0	0	0	0.002000001	0.001533171		0
San Diego	2029	LDA	Plug-in	Aggregate	43055.81268	1985991.602	178035.7854	0.000542341	0	0.001571834	0.002000001	0.001375499		0
San Diego	2029	LDT1	Gasolin	Aggregate	110049.4691	3842948.942	475235.4461	0.001866603	0	0.002353224	0.002000016	0.003270388		0
San Diego	2029	LDT1	Diesel	Aggregate	9.071905132	138.4283213	25.41025054	0.198264593	0	0	0.002000016	0.003602346		0
San Diego	2029	LDT1	Electric	Aggregate	640.2791948	32651.8209	3159.082111	0	0	0	0.002000001	0.001530327		0
San Diego	2029	LDT1	Plug-in	Aggregate	490.0673486	24788.70042	2026.428486	0.000329153	0	0.00102958	0.002000001	0.001384062		0
San Diego	2029	LDT2	Gasolin	Aggregate	561447.6069	23041051	2607110.654	0.001281005	0	0.0016406	0.002000016	0.003131525		0
San Diego	2029	LDT2	Diesel	Aggregate	2168.08014	90063.21715	10164.13276	0.004542095	0	0	0.002000016	0.003139779		0
San Diego	2029	LDT2	Electric	Aggregate	8269.630948	303515.3785	41420.28342	0	0	0	0.002000001	0.001529624		0
San Diego	2029	LDT2	Plug-in	Aggregate	7638.596998	365897.2156	31585.59859	0.000414759	0	0.001247434	0.002000001	0.001380824		0
San Diego	2029	MCY	Gasolin	Aggregate	68037.33108	411440.8694	136074.6622	0.00233674	0	0.003107977	0.001000008	0.004200001		0
					LDA, LDT1, LDT2, and MCY Composite			0.0012	0.0000	0.0016	0.0020	0.0027	0.005865	0.0000

Source: EMFAC2021 (v1.0.2) Emission Rates

Region Type: County

Region: San Diego

Calendar Year: 2029

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV calculated based on total VMT.

Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day
SBUS	31.8	min/day

Table 12. Operation Mobile Source Emissions Factors - EMFAC2021 Annual CO2

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CO2_RUNEX (g/mile)	CO2_IDLEX (g/vehicle/day)	CO2_STREX (g/trip)	CO2_IDLEX - Calculated (grams/Idle- min/vehicle)
San Diego	2029	HHDT	Diesel	Aggregate	16018.91072	1941149.09	242143.0681	1490.841664	11771.3989	0	107.5996244
							HHDT	1490.8417	11771.3989	0.0000	107.5996
San Diego	2029	LDA	Gasolin	Aggregate	1131921.21	46214128.07	5251577.712	269.0186695	0	62.67699395	0
San Diego	2029	LDA	Diesel	Aggregate	3138.761023	94251.37113	13322.6059	242.6805978	0	0	0
San Diego	2029	LDA	Electric	Aggregate	99214.84931	4857772.09	484308.9726	0	0	0	0
San Diego	2029	LDA	Plug-in	Aggregate	43055.81268	1985991.602	178035.7854	136.8039754	0	60.60471658	0
San Diego	2029	LDT1	Gasolin	Aggregate	110049.4691	3842948.942	475235.4461	332.6133654	0	80.96681488	0
San Diego	2029	LDT1	Diesel	Aggregate	9.071905132	138.4283213	25.41025054	415.4337981	0	0	0
San Diego	2029	LDT1	Electric	Aggregate	640.2791948	32651.8209	3159.082111	0	0	0	0
San Diego	2029	LDT1	Plug-in	Aggregate	490.0673486	24788.70042	2026.428486	126.2304354	0	64.82499372	0
San Diego	2029	LDT2	Gasolin	Aggregate	561447.6069	23041051	2607110.654	331.990261	0	78.00099048	0
San Diego	2029	LDT2	Diesel	Aggregate	2168.08014	90063.21715	10164.13276	310.1175079	0	0	0
San Diego	2029	LDT2	Electric	Aggregate	8269.630948	303515.3785	41420.28342	0	0	0	0
San Diego	2029	LDT2	Plug-in	Aggregate	7638.596998	365897.2156	31585.59859	130.7608856	0	70.33615805	0
San Diego	2029	MCY	Gasolin	Aggregate	68037.33108	411440.8694	136074.6622	202.8749718	0	44.62816153	0
						LDA, LDT1, LDT2, and MCY Composite		268.4696	0.0000	63.9161	0.0000

Source: EMFAC2021 (v1.0.2) Emission Rates

Region Type: County

Region: San Diego

Calendar Year: 2029

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV calculated based on total VMT.

Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day
SBUS	31.8	min/day

Table 14. Operation Mobile Source Emissions Factors - EMFAC2021 Annual N2O

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	N2O_RUNEX (g/mile)	N2O_IDLEX (g/vehicle/day)	N2O_STREX (g/trip)	N2O_IDLEX - Calculated (grams/Idle- min/vehicle)
San Diego	2029	HHDT	Diesel	Aggregate	16018.91072	1941149.09	242143.0681	0.234882711	1.854588691	0	0.016952365
							HHDT	0.2349	1.8546	0.0000	0.0170
San Diego	2029	LDA	Gasolin	Aggregate	1131921.21	46214128.07	5251577.712	0.003851819	0	0.029155405	0
San Diego	2029	LDA	Diesel	Aggregate	3138.761023	94251.37113	13322.6059	0.038234427	0	0	0
San Diego	2029	LDA	Electric	Aggregate	99214.84931	4857772.09	484308.9726	0	0	0	0
San Diego	2029	LDA	Plug-in	Aggregate	43055.81268	1985991.602	178035.7854	0.000578297	0	0.020002913	0
San Diego	2029	LDT1	Gasolin	Aggregate	110049.4691	3842948.942	475235.4461	0.008463527	0	0.036647734	0
San Diego	2029	LDT1	Diesel	Aggregate	9.071905132	138.4283213	25.41025054	0.065451764	0	0	0
San Diego	2029	LDT1	Electric	Aggregate	640.2791948	32651.8209	3159.082111	0	0	0	0
San Diego	2029	LDT1	Plug-in	Aggregate	490.0673486	24788.70042	2026.428486	0.000534513	0	0.020065037	0
San Diego	2029	LDT2	Gasolin	Aggregate	561447.6069	23041051	2607110.654	0.004912026	0	0.033231861	0
San Diego	2029	LDT2	Diesel	Aggregate	2168.08014	90063.21715	10164.13276	0.04885914	0	0	0
San Diego	2029	LDT2	Electric	Aggregate	8269.630948	303515.3785	41420.28342	0	0	0	0
San Diego	2029	LDT2	Plug-in	Aggregate	7638.596998	365897.2156	31585.59859	0.00055139	0	0.019979158	0
San Diego	2029	MCY	Gasolin	Aggregate	68037.33108	411440.8694	136074.6622	0.039071517	0	0.006910937	0
							LDA, LDT1, LDT2, and MCY Composite	0.0043	0.0000	0.0284	0.0000

Source: EMFAC2021 (v1.0.2) Emission Rates

Region Type: County

Region: San Diego

Calendar Year: 2029

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV calculated based on total VMT.

Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day
SBUS	31.8	min/day

Table 13. Operation Mobile Source Emissions Factors - EMFAC2021 Annual CH4

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CH4_RUNEX (g/mile)	CH4_IDLEX (g/vehicle/day)	CH4_STREX (g/trip)	CH4_IDLEX - Calculated (grams/Idle- min/vehicle)
San Diego	2029	HHDT	Diesel	Aggregate	16018.91072	1941149.09	242143.0681	0.000668798	0.253608017	0	0.002318172
							HHDT	0.0007	0.2536	0.0000	0.0023
San Diego	2029	LDA	Gasolin	Aggregate	1131921.21	46214128.07	5251577.712	0.001972662	0	0.053252127	0
San Diego	2029	LDA	Diesel	Aggregate	3138.761023	94251.37113	13322.6059	0.001304417	0	0	0
San Diego	2029	LDA	Electric	Aggregate	99214.84931	4857772.09	484308.9726	0	0	0	0
San Diego	2029	LDA	Plug-in	Aggregate	43055.81268	1985991.602	178035.7854	0.000531092	0	0.040392151	0
San Diego	2029	LDT1	Gasolin	Aggregate	110049.4691	3842948.942	475235.4461	0.006527732	0	0.091295195	0
San Diego	2029	LDT1	Diesel	Aggregate	9.071905132	138.4283213	25.41025054	0.014981908	0	0	0
San Diego	2029	LDT1	Electric	Aggregate	640.2791948	32651.8209	3159.082111	0	0	0	0
San Diego	2029	LDT1	Plug-in	Aggregate	490.0673486	24788.70042	2026.428486	0.000490378	0	0.040456945	0
San Diego	2029	LDT2	Gasolin	Aggregate	561447.6069	23041051	2607110.654	0.002734715	0	0.064464345	0
San Diego	2029	LDT2	Diesel	Aggregate	2168.08014	90063.21715	10164.13276	0.00119659	0	0	0
San Diego	2029	LDT2	Electric	Aggregate	8269.630948	303515.3785	41420.28342	0	0	0	0
San Diego	2029	LDT2	Plug-in	Aggregate	7638.596998	365897.2156	31585.59859	0.000506937	0	0.040367392	0
San Diego	2029	MCY	Gasolin	Aggregate	68037.33108	411440.8694	136074.6622	0.19095211	0	0.158267754	0
						LDA, LDT1, LDT2, and MCY Composite		0.0032	0.0000	0.0564	0.0000

Source: EMFAC2021 (v1.0.2) Emission Rates

Region Type: County

Region: San Diego

Calendar Year: 2029

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV calculated based on total VMT.

Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day
SBUS	31.8	min/day

Table 14. Paved Road Fugitive Emissions - Operation Mobile Sources

Equation:

$$E = k \times (sL/2)^{0.91} \times (W)1.02 \text{ [maximum day]}$$

Where:

		Units
k	particle size multiplier (PM ₁₀)	0.00220 lb/VMT
k	particle size multiplier (PM _{2.5})	0.00054 lb/VMT
sL	silt loading (2)	0.1 g/m ²
W	average weight (tons) of the vehicle traveling the road	2.4 tons

Notes/References:

k = Emission factors from CalEEMod2016.3.1 per AP-42, Section 13.2.1 (Paved Roads).

sL = Silt loading from CalEEMod2016.3.2

For daily emissions it is assumed to have no precipitation.

Truck Weight Assumptions

EMFAC Definition	EMFAC Category	GVWR (pounds)	GVWR (tons)	
Heavy Heavy-Duty Truck	HHDT	>33,000	17	<i>Assumed 33,000 pounds</i>
Medium Heavy-Duty Truck	MHDT	14,001-33,000	8	<i>Assumed average of 14,001 & 33,000 pounds</i>
Composite Heavy & Medium Heavy-Duty Truck	HHDT & MHDT	14,001-33,000+	13	<i>Assumed average of HHDT & MHDT pounds</i>

Source: EMFAC 2014

GVWR = Gross Vehicle Weight Rating

1 pound = 0.0005 US tons

Employee Vehicles Evaluated:

Employee Type	Average Weight (tons)
Passenger Vehicles	2.4

Reference:

Source: CalEEMod2016.3.2 (average vehicle weight = 2.4 tons)

Per AP-42, Section 13.2.1 (Paved Roads): The above equation calls for the average weight of all vehicles traveling the road. For example, if 99 percent of traffic on the road are 2 ton cars/trucks while the remaining 1 percent consists of 20 ton trucks, then the mean weight "W" is 2.2 tons. More specifically, the above equation is not intended to be used to calculate a separate emission factor for each vehicle weight class. Instead, only one emission factor should be calculated to represent the "fleet" average weight of all vehicles traveling the road.

Emission Factors	PM10 Paved Road (lb/VMT)	PM2.5 Paved Road (lb/VMT)	PM10 Paved Road (g/VMT)	PM2.5 Paved Road (g/VMT)
HHDT	0.0049	0.0012	2.2087	0.5421
MHDT	0.0023	0.0006	1.0239	0.2513
HHDT & MHDT	0.0037	0.0009	1.6800	0.4124
Passenger Vehicles	0.0007	0.0002	0.2998	0.0736
Average	0.0022	0.0005	0.9899	0.2430


```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 1/24/2024
** File: C:\Users\anol1\OneDrive - Dudek\Desktop\HARP2\Fairmount Fire
Station\AERMOD_Ops\Fairmount Fire Station.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Users\anol1\OneDrive - Dudek\Desktop\HARP2\Fairmount Fire Station
  MODELOPT DFAULT CONC
  AVERTIME 1 PERIOD
  POLLUTID VARIOUS
  RUNORNOT RUN
  ERRORFIL "Fairmount Fire Station.err"
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION STCK1      POINTCAP    491210.340    3620827.700        49.340
** DESCRSRC Emergency Diesel Generator
  LOCATION STCK2      POINT        491213.830    3620828.820        49.880
** DESCRSRC Fuel Tank
  LOCATION STCK3      POINT        491208.190    3620797.869        54.440
** DESCRSRC Response Engine 1
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC Fire Truck North Route
** PREFIX
** Length of Side = 8.60
** Configuration = Adjacent
** Emission Rate = 0.5

```

** Vertical Dimension = 6.80

** SZINIT = 3.16

** Nodes = 12

** 491214.070, 3620799.845, 56.20, 3.40, 4.00

** 491233.590, 3620799.845, 57.16, 3.40, 4.00

** 491233.996, 3620840.105, 50.37, 3.40, 4.00

** 491229.523, 3620857.592, 48.82, 3.40, 4.00

** 491221.796, 3620871.826, 45.98, 3.40, 4.00

** 491208.376, 3620883.619, 45.52, 3.40, 4.00

** 491168.522, 3620899.479, 44.81, 3.40, 4.00

** 491160.796, 3620905.173, 44.44, 3.40, 4.00

** 491159.169, 3620911.679, 44.58, 3.40, 4.00

** 491162.829, 3620921.846, 44.45, 3.40, 4.00

** 491242.943, 3621038.154, 44.97, 3.40, 4.00

** 491299.229, 3621124.840, 46.44, 3.40, 4.00

** -----

LOCATION L0000176	VOLUME	491218.370	3620799.845	55.97
LOCATION L0000177	VOLUME	491226.970	3620799.845	55.99
LOCATION L0000178	VOLUME	491233.610	3620801.825	55.72
LOCATION L0000179	VOLUME	491233.697	3620810.424	54.45
LOCATION L0000180	VOLUME	491233.784	3620819.024	53.19
LOCATION L0000181	VOLUME	491233.870	3620827.623	51.94
LOCATION L0000182	VOLUME	491233.957	3620836.223	50.71
LOCATION L0000183	VOLUME	491232.827	3620844.675	49.29
LOCATION L0000184	VOLUME	491230.696	3620853.007	47.71
LOCATION L0000185	VOLUME	491227.678	3620860.991	46.62
LOCATION L0000186	VOLUME	491223.575	3620868.549	45.82
LOCATION L0000187	VOLUME	491218.137	3620875.042	45.47
LOCATION L0000188	VOLUME	491211.677	3620880.719	45.53
LOCATION L0000189	VOLUME	491204.468	3620885.174	45.45
LOCATION L0000190	VOLUME	491196.478	3620888.354	45.35
LOCATION L0000191	VOLUME	491188.487	3620891.534	45.20
LOCATION L0000192	VOLUME	491180.497	3620894.714	44.55
LOCATION L0000193	VOLUME	491172.506	3620897.894	44.07
LOCATION L0000194	VOLUME	491165.051	3620902.037	43.87
LOCATION L0000195	VOLUME	491159.992	3620908.388	44.28
LOCATION L0000196	VOLUME	491160.933	3620916.579	44.62
LOCATION L0000197	VOLUME	491164.532	3620924.319	44.58
LOCATION L0000198	VOLUME	491169.411	3620931.401	44.59
LOCATION L0000199	VOLUME	491174.289	3620938.483	44.58
LOCATION L0000200	VOLUME	491179.168	3620945.566	44.50
LOCATION L0000201	VOLUME	491184.046	3620952.648	44.39
LOCATION L0000202	VOLUME	491188.924	3620959.731	44.44
LOCATION L0000203	VOLUME	491193.803	3620966.813	44.37
LOCATION L0000204	VOLUME	491198.681	3620973.896	44.32
LOCATION L0000205	VOLUME	491203.560	3620980.978	44.16
LOCATION L0000206	VOLUME	491208.438	3620988.060	44.16
LOCATION L0000207	VOLUME	491213.317	3620995.143	44.33
LOCATION L0000208	VOLUME	491218.195	3621002.225	44.50
LOCATION L0000209	VOLUME	491223.074	3621009.308	44.46

LOCATION L0000210	VOLUME	491227.952	3621016.390	44.41
LOCATION L0000211	VOLUME	491232.830	3621023.472	44.50
LOCATION L0000212	VOLUME	491237.709	3621030.555	44.73
LOCATION L0000213	VOLUME	491242.587	3621037.637	45.02
LOCATION L0000214	VOLUME	491247.285	3621044.841	45.14
LOCATION L0000215	VOLUME	491251.968	3621052.054	45.25
LOCATION L0000216	VOLUME	491256.652	3621059.266	45.35
LOCATION L0000217	VOLUME	491261.335	3621066.479	45.42
LOCATION L0000218	VOLUME	491266.019	3621073.692	45.62
LOCATION L0000219	VOLUME	491270.702	3621080.905	45.82
LOCATION L0000220	VOLUME	491275.386	3621088.118	46.07
LOCATION L0000221	VOLUME	491280.069	3621095.331	46.29
LOCATION L0000222	VOLUME	491284.752	3621102.544	46.30
LOCATION L0000223	VOLUME	491289.436	3621109.757	46.35
LOCATION L0000224	VOLUME	491294.119	3621116.969	46.49
LOCATION L0000225	VOLUME	491298.803	3621124.182	46.48

** End of LINE VOLUME Source ID = SLINE1

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = SLINE2

** DESCRSRC Fire Truck South Route

** PREFIX

** Length of Side = 8.60

** Configuration = Adjacent

** Emission Rate = 0.5

** Vertical Dimension = 6.80

** SZINIT = 3.16

** Nodes = 10

** 491213.512, 3620793.869, 57.44, 0.00, 4.00

** 491231.738, 3620793.306, 57.48, 0.00, 4.00

** 491232.274, 3620761.785, 60.47, 0.00, 4.00

** 491231.202, 3620748.276, 61.62, 0.00, 4.00

** 491224.769, 3620733.642, 63.40, 0.00, 4.00

** 491199.038, 3620711.127, 62.62, 0.00, 4.00

** 491223.161, 3620657.654, 65.02, 0.00, 4.00

** 491229.594, 3620633.450, 66.59, 0.00, 4.00

** 491232.810, 3620604.180, 67.36, 0.00, 4.00

** 491231.304, 3620410.543, 72.01, 0.00, 4.00

** -----

LOCATION L0000226	VOLUME	491217.810	3620793.737	57.04
LOCATION L0000227	VOLUME	491226.405	3620793.471	57.01
LOCATION L0000228	VOLUME	491231.793	3620790.042	57.48
LOCATION L0000229	VOLUME	491231.940	3620781.443	58.38
LOCATION L0000230	VOLUME	491232.086	3620772.844	59.25
LOCATION L0000231	VOLUME	491232.232	3620764.246	60.13
LOCATION L0000232	VOLUME	491231.788	3620755.665	60.97
LOCATION L0000233	VOLUME	491230.724	3620747.189	61.71
LOCATION L0000234	VOLUME	491227.263	3620739.316	62.32
LOCATION L0000235	VOLUME	491222.962	3620732.060	62.80
LOCATION L0000236	VOLUME	491216.489	3620726.397	62.96

LOCATION	L0000237	VOLUME	491210.017	3620720.734	62.80
LOCATION	L0000238	VOLUME	491203.545	3620715.071	62.66
LOCATION	L0000239	VOLUME	491200.111	3620708.747	62.75
LOCATION	L0000240	VOLUME	491203.648	3620700.908	63.25
LOCATION	L0000241	VOLUME	491207.184	3620693.069	63.60
LOCATION	L0000242	VOLUME	491210.721	3620685.229	63.85
LOCATION	L0000243	VOLUME	491214.257	3620677.390	64.12
LOCATION	L0000244	VOLUME	491217.794	3620669.551	64.36
LOCATION	L0000245	VOLUME	491221.330	3620661.712	64.78
LOCATION	L0000246	VOLUME	491224.226	3620653.645	65.27
LOCATION	L0000247	VOLUME	491226.435	3620645.333	65.75
LOCATION	L0000248	VOLUME	491228.644	3620637.022	66.22
LOCATION	L0000249	VOLUME	491230.129	3620628.575	66.57
LOCATION	L0000250	VOLUME	491231.069	3620620.027	66.87
LOCATION	L0000251	VOLUME	491232.008	3620611.478	67.15
LOCATION	L0000252	VOLUME	491232.800	3620602.922	67.43
LOCATION	L0000253	VOLUME	491232.733	3620594.322	67.77
LOCATION	L0000254	VOLUME	491232.667	3620585.723	68.10
LOCATION	L0000255	VOLUME	491232.600	3620577.123	68.44
LOCATION	L0000256	VOLUME	491232.533	3620568.523	68.69
LOCATION	L0000257	VOLUME	491232.466	3620559.923	68.87
LOCATION	L0000258	VOLUME	491232.399	3620551.324	69.06
LOCATION	L0000259	VOLUME	491232.332	3620542.724	69.25
LOCATION	L0000260	VOLUME	491232.265	3620534.124	69.40
LOCATION	L0000261	VOLUME	491232.198	3620525.524	69.55
LOCATION	L0000262	VOLUME	491232.132	3620516.925	69.69
LOCATION	L0000263	VOLUME	491232.065	3620508.325	69.90
LOCATION	L0000264	VOLUME	491231.998	3620499.725	70.18
LOCATION	L0000265	VOLUME	491231.931	3620491.125	70.46
LOCATION	L0000266	VOLUME	491231.864	3620482.526	70.73
LOCATION	L0000267	VOLUME	491231.797	3620473.926	70.95
LOCATION	L0000268	VOLUME	491231.730	3620465.326	71.17
LOCATION	L0000269	VOLUME	491231.663	3620456.726	71.38
LOCATION	L0000270	VOLUME	491231.597	3620448.127	71.56
LOCATION	L0000271	VOLUME	491231.530	3620439.527	71.68
LOCATION	L0000272	VOLUME	491231.463	3620430.927	71.79
LOCATION	L0000273	VOLUME	491231.396	3620422.328	71.90
LOCATION	L0000274	VOLUME	491231.329	3620413.728	71.61

** End of LINE VOLUME Source ID = SLINE2

** Source Parameters **

SRCPARAM STCK1	1.0	2.499	772.594	60.6454012002783
0.134620001016				
SRCPARAM STCK2	1.0	2.588	0.000	0.001 0.0009144
SRCPARAM STCK3	1.0	3.658	366.000	51.17 0.1

** LINE VOLUME Source ID = SLINE1

SRCPARAM L0000176	0.01	3.40	4.00	3.16
SRCPARAM L0000177	0.01	3.40	4.00	3.16
SRCPARAM L0000178	0.01	3.40	4.00	3.16
SRCPARAM L0000179	0.01	3.40	4.00	3.16
SRCPARAM L0000180	0.01	3.40	4.00	3.16

SRCPARAM L0000181	0.01	3.40	4.00	3.16
SRCPARAM L0000182	0.01	3.40	4.00	3.16
SRCPARAM L0000183	0.01	3.40	4.00	3.16
SRCPARAM L0000184	0.01	3.40	4.00	3.16
SRCPARAM L0000185	0.01	3.40	4.00	3.16
SRCPARAM L0000186	0.01	3.40	4.00	3.16
SRCPARAM L0000187	0.01	3.40	4.00	3.16
SRCPARAM L0000188	0.01	3.40	4.00	3.16
SRCPARAM L0000189	0.01	3.40	4.00	3.16
SRCPARAM L0000190	0.01	3.40	4.00	3.16
SRCPARAM L0000191	0.01	3.40	4.00	3.16
SRCPARAM L0000192	0.01	3.40	4.00	3.16
SRCPARAM L0000193	0.01	3.40	4.00	3.16
SRCPARAM L0000194	0.01	3.40	4.00	3.16
SRCPARAM L0000195	0.01	3.40	4.00	3.16
SRCPARAM L0000196	0.01	3.40	4.00	3.16
SRCPARAM L0000197	0.01	3.40	4.00	3.16
SRCPARAM L0000198	0.01	3.40	4.00	3.16
SRCPARAM L0000199	0.01	3.40	4.00	3.16
SRCPARAM L0000200	0.01	3.40	4.00	3.16
SRCPARAM L0000201	0.01	3.40	4.00	3.16
SRCPARAM L0000202	0.01	3.40	4.00	3.16
SRCPARAM L0000203	0.01	3.40	4.00	3.16
SRCPARAM L0000204	0.01	3.40	4.00	3.16
SRCPARAM L0000205	0.01	3.40	4.00	3.16
SRCPARAM L0000206	0.01	3.40	4.00	3.16
SRCPARAM L0000207	0.01	3.40	4.00	3.16
SRCPARAM L0000208	0.01	3.40	4.00	3.16
SRCPARAM L0000209	0.01	3.40	4.00	3.16
SRCPARAM L0000210	0.01	3.40	4.00	3.16
SRCPARAM L0000211	0.01	3.40	4.00	3.16
SRCPARAM L0000212	0.01	3.40	4.00	3.16
SRCPARAM L0000213	0.01	3.40	4.00	3.16
SRCPARAM L0000214	0.01	3.40	4.00	3.16
SRCPARAM L0000215	0.01	3.40	4.00	3.16
SRCPARAM L0000216	0.01	3.40	4.00	3.16
SRCPARAM L0000217	0.01	3.40	4.00	3.16
SRCPARAM L0000218	0.01	3.40	4.00	3.16
SRCPARAM L0000219	0.01	3.40	4.00	3.16
SRCPARAM L0000220	0.01	3.40	4.00	3.16
SRCPARAM L0000221	0.01	3.40	4.00	3.16
SRCPARAM L0000222	0.01	3.40	4.00	3.16
SRCPARAM L0000223	0.01	3.40	4.00	3.16
SRCPARAM L0000224	0.01	3.40	4.00	3.16
SRCPARAM L0000225	0.01	3.40	4.00	3.16

**

** LINE VOLUME Source ID = SLINE2

SRCPARAM L0000226	0.0102040816	0.00	4.00	3.16
SRCPARAM L0000227	0.0102040816	0.00	4.00	3.16
SRCPARAM L0000228	0.0102040816	0.00	4.00	3.16

[illegible]

**** Building Downwash ****

BUILDHGT	STCK1	14.10	14.10	14.10	14.10	14.10	0.00
----------	-------	-------	-------	-------	-------	-------	------

BUILDHGT	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK1	0.00	14.10	14.10	14.10	14.10	14.10
BUILDHGT	STCK1	14.10	14.10	14.10	14.10	14.10	0.00
BUILDHGT	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK1	0.00	14.10	14.10	14.10	14.10	14.10
BUILDHGT	STCK2	14.10	14.10	14.10	14.10	14.10	0.00
BUILDHGT	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK2	0.00	0.00	14.10	14.10	14.10	14.10
BUILDHGT	STCK2	14.10	14.10	14.10	14.10	14.10	0.00
BUILDHGT	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK2	0.00	0.00	14.10	14.10	14.10	14.10
BUILDHGT	STCK3	14.10	14.10	14.10	14.10	14.10	14.10
BUILDHGT	STCK3	14.10	14.10	14.10	14.10	14.10	14.10
BUILDHGT	STCK3	14.10	14.10	14.10	14.10	14.10	14.10
BUILDHGT	STCK3	14.10	14.10	14.10	14.10	14.10	14.10
BUILDHGT	STCK3	14.10	14.10	14.10	14.10	14.10	14.10
BUILDHGT	STCK3	14.10	14.10	14.10	14.10	14.10	14.10
BUILDWID	STCK1	28.78	30.07	30.44	29.89	28.43	0.00
BUILDWID	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDWID	STCK1	0.00	34.48	34.35	33.18	30.99	28.10
BUILDWID	STCK1	28.78	30.07	30.44	29.89	28.43	0.00
BUILDWID	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDWID	STCK1	0.00	34.48	34.35	33.18	30.99	28.10
BUILDWID	STCK2	28.78	30.07	30.44	29.89	28.43	0.00
BUILDWID	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDWID	STCK2	0.00	0.00	34.35	33.18	30.99	28.10
BUILDWID	STCK2	28.78	30.07	30.44	29.89	28.43	0.00
BUILDWID	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDWID	STCK2	0.00	0.00	34.35	33.18	30.99	28.10
BUILDWID	STCK3	28.78	30.07	30.44	29.89	28.43	26.53
BUILDWID	STCK3	25.44	23.57	23.36	24.96	28.73	31.63
BUILDWID	STCK3	33.56	34.48	34.35	33.18	30.99	28.10
BUILDWID	STCK3	28.78	30.07	30.44	29.89	28.43	26.53
BUILDWID	STCK3	25.44	23.57	23.36	24.96	28.73	31.63
BUILDWID	STCK3	33.56	34.48	34.35	33.18	30.99	28.10
BUILDLN	STCK1	24.96	28.73	31.63	33.56	34.48	0.00
BUILDLN	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK1	0.00	28.43	26.53	25.44	23.57	23.36
BUILDLN	STCK1	24.96	28.73	31.63	33.56	34.48	0.00
BUILDLN	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK1	0.00	28.43	26.53	25.44	23.57	23.36
BUILDLN	STCK2	24.96	28.73	31.63	33.56	34.48	0.00
BUILDLN	STCK2	0.00	0.00	0.00	0.00	0.00	0.00

BUILDLN	STCK2	0.00	0.00	26.53	25.44	23.57	23.36
BUILDLN	STCK2	24.96	28.73	31.63	33.56	34.48	0.00
BUILDLN	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK2	0.00	0.00	26.53	25.44	23.57	23.36
BUILDLN	STCK3	24.96	28.73	31.63	33.56	34.48	34.35
BUILDLN	STCK3	33.18	30.99	28.10	28.78	30.07	30.44
BUILDLN	STCK3	29.89	28.43	26.53	25.44	23.57	23.36
BUILDLN	STCK3	24.96	28.73	31.63	33.56	34.48	34.35
BUILDLN	STCK3	33.18	30.99	28.10	28.78	30.07	30.44
BUILDLN	STCK3	29.89	28.43	26.53	25.44	23.57	23.36
XBADJ	STCK1	-38.96	-41.07	-41.94	-41.54	-39.87	0.00
XBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK1	0.00	4.10	9.20	12.41	15.23	15.23
XBADJ	STCK1	14.00	12.34	10.31	7.97	5.38	0.00
XBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK1	0.00	-32.53	-35.73	-37.84	-38.81	-38.59
XBADJ	STCK2	-40.67	-43.32	-44.66	-44.64	-43.26	0.00
XBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK2	0.00	0.00	8.43	12.27	15.73	16.35
XBADJ	STCK2	15.71	14.59	13.03	11.07	8.78	0.00
XBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK2	0.00	0.00	-34.95	-37.70	-39.30	-39.71
XBADJ	STCK3	-9.21	-12.31	-15.03	-17.30	-19.05	-20.21
XBADJ	STCK3	-20.76	-20.68	-19.97	-20.59	-20.71	-20.20
XBADJ	STCK3	-19.08	-17.37	-15.56	-14.89	-13.77	-14.60
XBADJ	STCK3	-15.75	-16.42	-16.59	-16.26	-15.44	-14.14
XBADJ	STCK3	-12.42	-10.32	-8.13	-8.19	-9.36	-10.24
XBADJ	STCK3	-10.82	-11.06	-10.97	-10.55	-9.80	-8.76
YBADJ	STCK1	3.14	-2.51	-8.07	-13.40	-18.31	0.00
YBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK1	0.00	-22.63	-19.81	-16.39	-12.48	-8.07
YBADJ	STCK1	-3.14	2.51	8.07	13.40	18.31	0.00
YBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK1	0.00	22.63	19.81	16.39	12.48	8.07
YBADJ	STCK2	6.38	0.39	-5.61	-11.44	-16.93	0.00
YBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK2	0.00	0.00	-23.39	-20.06	-16.11	-11.56
YBADJ	STCK2	-6.38	-0.39	5.61	11.44	16.93	0.00
YBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK2	0.00	0.00	23.39	20.06	16.11	11.56
YBADJ	STCK3	6.20	5.68	4.98	4.13	3.15	2.29
YBADJ	STCK3	2.17	1.98	2.92	3.27	2.06	0.78
YBADJ	STCK3	-0.52	-1.80	-3.03	-4.17	-5.18	-5.92

YBADJ	STCK3	-6.20	-5.68	-4.98	-4.13	-3.15	-2.29
YBADJ	STCK3	-2.17	-1.98	-2.92	-3.27	-2.06	-0.78
YBADJ	STCK3	0.52	1.80	3.03	4.17	5.18	5.92

SRCGROUP IDLE_Tru STCK3

SRCGROUP Generato STCK1

SRCGROUP Fuel_Tan STCK2

SRCGROUP Trucks	L0000176	L0000177	L0000178	L0000179	L0000180	L0000181
SRCGROUP Trucks	L0000182	L0000183	L0000184	L0000185	L0000186	L0000187
SRCGROUP Trucks	L0000188	L0000189	L0000190	L0000191	L0000192	L0000193
SRCGROUP Trucks	L0000194	L0000195	L0000196	L0000197	L0000198	L0000199
SRCGROUP Trucks	L0000200	L0000201	L0000202	L0000203	L0000204	L0000205
SRCGROUP Trucks	L0000206	L0000207	L0000208	L0000209	L0000210	L0000211
SRCGROUP Trucks	L0000212	L0000213	L0000214	L0000215	L0000216	L0000217
SRCGROUP Trucks	L0000218	L0000219	L0000220	L0000221	L0000222	L0000223
SRCGROUP Trucks	L0000224	L0000225	L0000226	L0000227	L0000228	L0000229
SRCGROUP Trucks	L0000230	L0000231	L0000232	L0000233	L0000234	L0000235
SRCGROUP Trucks	L0000236	L0000237	L0000238	L0000239	L0000240	L0000241
SRCGROUP Trucks	L0000242	L0000243	L0000244	L0000245	L0000246	L0000247
SRCGROUP Trucks	L0000248	L0000249	L0000250	L0000251	L0000252	L0000253
SRCGROUP Trucks	L0000254	L0000255	L0000256	L0000257	L0000258	L0000259
SRCGROUP Trucks	L0000260	L0000261	L0000262	L0000263	L0000264	L0000265
SRCGROUP Trucks	L0000266	L0000267	L0000268	L0000269	L0000270	L0000271
SRCGROUP Trucks	L0000272	L0000273	L0000274			

SRCGROUP ALL

SO FINISHED

**

** AERMOD Receptor Pathway

**

**

RE STARTING

INCLUDED "Fairmount Fire Station.rou"

RE FINISHED

**

** AERMOD Meteorology Pathway

**

**

ME STARTING

SURFFILE "..\Met Data\Lindbergh_2019_2021_v22122.SFC"

PROFFILE "..\Met Data\Lindbergh_2019_2021_v22122.PFL"

SURFDATA 23188 2019 SAN_DIEGO/LINDBERGH_FIELD

UAIRDATA 3190 2019

PROFBASE 4.6 METERS

ME FINISHED

**

** AERMOD Output Pathway

**

**

OU STARTING

RECTABLE ALLAVE 1ST

RECTABLE 1 1ST

** Auto-Generated Plotfiles

PLOTFILE 1 ALL 1ST "Fairmount Fire Station.AD\01H1GALL.PLT" 31

PLOTFILE 1 IDLE_Tru 1ST "Fairmount Fire Station.AD\01H1G001.PLT" 32

PLOTFILE 1 Generato 1ST "Fairmount Fire Station.AD\01H1G002.PLT" 33

PLOTFILE 1 Fuel_Tan 1ST "Fairmount Fire Station.AD\01H1G003.PLT" 34

PLOTFILE 1 Trucks 1ST "Fairmount Fire Station.AD\01H1G004.PLT" 35

PLOTFILE PERIOD ALL "Fairmount Fire Station.AD\PE00GALL.PLT" 36

PLOTFILE PERIOD IDLE_Tru "Fairmount Fire Station.AD\PE00G001.PLT" 37

PLOTFILE PERIOD Generato "Fairmount Fire Station.AD\PE00G002.PLT" 38

PLOTFILE PERIOD Fuel_Tan "Fairmount Fire Station.AD\PE00G003.PLT" 39

PLOTFILE PERIOD Trucks "Fairmount Fire Station.AD\PE00G004.PLT" 40

SUMMFILE "Fairmount Fire Station.sum"

OU FINISHED

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

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

A Total of	0 Fatal Error Message(s)
A Total of	4 Warning Message(s)
A Total of	0 Informational Message(s)

***** FATAL ERROR MESSAGES *****

*** NONE ***

***** WARNING MESSAGES *****

SO W320	189	PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320	191	PPARM: Input Parameter May Be Out-of-Range for Parameter VS
ME W186	445	MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used 0.50
ME W187	445	MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

*** SETUP Finishes Successfully ***

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL 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 RURAL Dispersion Only.
- * Option for Capped & Horiz Stacks Selected With:
 - 1 Capped Stack(s); and 0 Horizontal Stack(s)
- * 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: VARIOUS

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

**This Run Includes: 102 Source(s); 5 Source Group(s); and 544
Receptor(s)

with: 3 POINT(s), including
1 POINTCAP(s) and 0 POINTHOR(s)
and: 99 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) = 4.60 ; 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 = 3.8 MB of RAM.

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: Fairmount Fire Station.err

**File for Summary of Results: Fairmount Fire Station.sum

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*** MODELOPTs: RegDFault CONC ELEV RURAL ADJ_U*

*** POINT SOURCE DATA ***

STACK	STACK	NUMBER	EMISSION	RATE		BASE	STACK	STACK	
SOURCE	BLDG	URBAN	CAP/	EMIS	RATE				
VEL. DIAMETER	PART.	(GRAMS/SEC)	X	Y		ELEV.	HEIGHT	TEMP.	EXIT
	EXISTS	SOURCE	HOR	SCALAR					

ID	CATS.	(METERS)	(METERS)	(METERS)	(METERS)	(DEG.K)
(M/SEC)	(METERS)	VARY BY				

STCK1	0	0.10000E+01	491210.3	3620827.7	49.3	2.50	772.59
60.65	0.13	YES	NO	CAP			
STCK2	0	0.10000E+01	491213.8	3620828.8	49.9	2.59	-0.00
0.00	0.00	YES	NO	NO			
STCK3	0	0.10000E+01	491208.2	3620797.9	54.4	3.66	366.00
51.17	0.10	YES	NO	NO			

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** VOLUME SOURCE DATA ***

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

L0000176	0	0.10000E-01	491218.4	3620799.8	56.0	3.40	4.00
3.16	NO						
L0000177	0	0.10000E-01	491227.0	3620799.8	56.0	3.40	4.00
3.16	NO						
L0000178	0	0.10000E-01	491233.6	3620801.8	55.7	3.40	4.00
3.16	NO						
L0000179	0	0.10000E-01	491233.7	3620810.4	54.4	3.40	4.00
3.16	NO						
L0000180	0	0.10000E-01	491233.8	3620819.0	53.2	3.40	4.00
3.16	NO						
L0000181	0	0.10000E-01	491233.9	3620827.6	51.9	3.40	4.00
3.16	NO						
L0000182	0	0.10000E-01	491234.0	3620836.2	50.7	3.40	4.00
3.16	NO						
L0000183	0	0.10000E-01	491232.8	3620844.7	49.3	3.40	4.00
3.16	NO						
L0000184	0	0.10000E-01	491230.7	3620853.0	47.7	3.40	4.00
3.16	NO						
L0000185	0	0.10000E-01	491227.7	3620861.0	46.6	3.40	4.00

3.16	NO						
L0000186		0	0.10000E-01	491223.6	3620868.5	45.8	3.40 4.00
3.16	NO						
L0000187		0	0.10000E-01	491218.1	3620875.0	45.5	3.40 4.00
3.16	NO						
L0000188		0	0.10000E-01	491211.7	3620880.7	45.5	3.40 4.00
3.16	NO						
L0000189		0	0.10000E-01	491204.5	3620885.2	45.4	3.40 4.00
3.16	NO						
L0000190		0	0.10000E-01	491196.5	3620888.4	45.3	3.40 4.00
3.16	NO						
L0000191		0	0.10000E-01	491188.5	3620891.5	45.2	3.40 4.00
3.16	NO						
L0000192		0	0.10000E-01	491180.5	3620894.7	44.5	3.40 4.00
3.16	NO						
L0000193		0	0.10000E-01	491172.5	3620897.9	44.1	3.40 4.00
3.16	NO						
L0000194		0	0.10000E-01	491165.1	3620902.0	43.9	3.40 4.00
3.16	NO						
L0000195		0	0.10000E-01	491160.0	3620908.4	44.3	3.40 4.00
3.16	NO						
L0000196		0	0.10000E-01	491160.9	3620916.6	44.6	3.40 4.00
3.16	NO						
L0000197		0	0.10000E-01	491164.5	3620924.3	44.6	3.40 4.00
3.16	NO						
L0000198		0	0.10000E-01	491169.4	3620931.4	44.6	3.40 4.00
3.16	NO						
L0000199		0	0.10000E-01	491174.3	3620938.5	44.6	3.40 4.00
3.16	NO						
L0000200		0	0.10000E-01	491179.2	3620945.6	44.5	3.40 4.00
3.16	NO						
L0000201		0	0.10000E-01	491184.0	3620952.6	44.4	3.40 4.00
3.16	NO						
L0000202		0	0.10000E-01	491188.9	3620959.7	44.4	3.40 4.00
3.16	NO						
L0000203		0	0.10000E-01	491193.8	3620966.8	44.4	3.40 4.00
3.16	NO						
L0000204		0	0.10000E-01	491198.7	3620973.9	44.3	3.40 4.00
3.16	NO						
L0000205		0	0.10000E-01	491203.6	3620981.0	44.2	3.40 4.00
3.16	NO						
L0000206		0	0.10000E-01	491208.4	3620988.1	44.2	3.40 4.00
3.16	NO						
L0000207		0	0.10000E-01	491213.3	3620995.1	44.3	3.40 4.00
3.16	NO						
L0000208		0	0.10000E-01	491218.2	3621002.2	44.5	3.40 4.00
3.16	NO						
L0000209		0	0.10000E-01	491223.1	3621009.3	44.5	3.40 4.00
3.16	NO						
L0000210		0	0.10000E-01	491228.0	3621016.4	44.4	3.40 4.00

3.16	NO							
L0000211		0	0.10000E-01	491232.8	3621023.5	44.5	3.40	4.00
3.16	NO							
L0000212		0	0.10000E-01	491237.7	3621030.6	44.7	3.40	4.00
3.16	NO							
L0000213		0	0.10000E-01	491242.6	3621037.6	45.0	3.40	4.00
3.16	NO							
L0000214		0	0.10000E-01	491247.3	3621044.8	45.1	3.40	4.00
3.16	NO							
L0000215		0	0.10000E-01	491252.0	3621052.1	45.2	3.40	4.00

3.16 NO
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** VOLUME SOURCE DATA ***

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

L0000216		0	0.10000E-01	491256.7	3621059.3	45.3	3.40	4.00
3.16	NO							
L0000217		0	0.10000E-01	491261.3	3621066.5	45.4	3.40	4.00
3.16	NO							
L0000218		0	0.10000E-01	491266.0	3621073.7	45.6	3.40	4.00
3.16	NO							
L0000219		0	0.10000E-01	491270.7	3621080.9	45.8	3.40	4.00
3.16	NO							
L0000220		0	0.10000E-01	491275.4	3621088.1	46.1	3.40	4.00
3.16	NO							
L0000221		0	0.10000E-01	491280.1	3621095.3	46.3	3.40	4.00
3.16	NO							
L0000222		0	0.10000E-01	491284.8	3621102.5	46.3	3.40	4.00
3.16	NO							
L0000223		0	0.10000E-01	491289.4	3621109.8	46.3	3.40	4.00
3.16	NO							
L0000224		0	0.10000E-01	491294.1	3621117.0	46.5	3.40	4.00
3.16	NO							
L0000225		0	0.10000E-01	491298.8	3621124.2	46.5	3.40	4.00

3.16	NO						
L0000226		0	0.10204E-01	491217.8	3620793.7	57.0	0.00 4.00
3.16	NO						
L0000227		0	0.10204E-01	491226.4	3620793.5	57.0	0.00 4.00
3.16	NO						
L0000228		0	0.10204E-01	491231.8	3620790.0	57.5	0.00 4.00
3.16	NO						
L0000229		0	0.10204E-01	491231.9	3620781.4	58.4	0.00 4.00
3.16	NO						
L0000230		0	0.10204E-01	491232.1	3620772.8	59.2	0.00 4.00
3.16	NO						
L0000231		0	0.10204E-01	491232.2	3620764.2	60.1	0.00 4.00
3.16	NO						
L0000232		0	0.10204E-01	491231.8	3620755.7	61.0	0.00 4.00
3.16	NO						
L0000233		0	0.10204E-01	491230.7	3620747.2	61.7	0.00 4.00
3.16	NO						
L0000234		0	0.10204E-01	491227.3	3620739.3	62.3	0.00 4.00
3.16	NO						
L0000235		0	0.10204E-01	491223.0	3620732.1	62.8	0.00 4.00
3.16	NO						
L0000236		0	0.10204E-01	491216.5	3620726.4	63.0	0.00 4.00
3.16	NO						
L0000237		0	0.10204E-01	491210.0	3620720.7	62.8	0.00 4.00
3.16	NO						
L0000238		0	0.10204E-01	491203.5	3620715.1	62.7	0.00 4.00
3.16	NO						
L0000239		0	0.10204E-01	491200.1	3620708.7	62.8	0.00 4.00
3.16	NO						
L0000240		0	0.10204E-01	491203.6	3620700.9	63.2	0.00 4.00
3.16	NO						
L0000241		0	0.10204E-01	491207.2	3620693.1	63.6	0.00 4.00
3.16	NO						
L0000242		0	0.10204E-01	491210.7	3620685.2	63.8	0.00 4.00
3.16	NO						
L0000243		0	0.10204E-01	491214.3	3620677.4	64.1	0.00 4.00
3.16	NO						
L0000244		0	0.10204E-01	491217.8	3620669.6	64.4	0.00 4.00
3.16	NO						
L0000245		0	0.10204E-01	491221.3	3620661.7	64.8	0.00 4.00
3.16	NO						
L0000246		0	0.10204E-01	491224.2	3620653.6	65.3	0.00 4.00
3.16	NO						
L0000247		0	0.10204E-01	491226.4	3620645.3	65.8	0.00 4.00
3.16	NO						
L0000248		0	0.10204E-01	491228.6	3620637.0	66.2	0.00 4.00
3.16	NO						
L0000249		0	0.10204E-01	491230.1	3620628.6	66.6	0.00 4.00
3.16	NO						
L0000250		0	0.10204E-01	491231.1	3620620.0	66.9	0.00 4.00

3.16	NO							
L0000251		0	0.10204E-01	491232.0	3620611.5	67.1	0.00	4.00
3.16	NO							
L0000252		0	0.10204E-01	491232.8	3620602.9	67.4	0.00	4.00
3.16	NO							
L0000253		0	0.10204E-01	491232.7	3620594.3	67.8	0.00	4.00
3.16	NO							
L0000254		0	0.10204E-01	491232.7	3620585.7	68.1	0.00	4.00
3.16	NO							
L0000255		0	0.10204E-01	491232.6	3620577.1	68.4	0.00	4.00

3.16 NO
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** VOLUME SOURCE DATA ***

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

L0000256		0	0.10204E-01	491232.5	3620568.5	68.7	0.00	4.00
3.16	NO							
L0000257		0	0.10204E-01	491232.5	3620559.9	68.9	0.00	4.00
3.16	NO							
L0000258		0	0.10204E-01	491232.4	3620551.3	69.1	0.00	4.00
3.16	NO							
L0000259		0	0.10204E-01	491232.3	3620542.7	69.2	0.00	4.00
3.16	NO							
L0000260		0	0.10204E-01	491232.3	3620534.1	69.4	0.00	4.00
3.16	NO							
L0000261		0	0.10204E-01	491232.2	3620525.5	69.5	0.00	4.00
3.16	NO							
L0000262		0	0.10204E-01	491232.1	3620516.9	69.7	0.00	4.00
3.16	NO							
L0000263		0	0.10204E-01	491232.1	3620508.3	69.9	0.00	4.00
3.16	NO							
L0000264		0	0.10204E-01	491232.0	3620499.7	70.2	0.00	4.00
3.16	NO							
L0000265		0	0.10204E-01	491231.9	3620491.1	70.5	0.00	4.00

3.16	NO						
L0000266		0	0.10204E-01	491231.9	3620482.5	70.7	0.00 4.00
3.16	NO						
L0000267		0	0.10204E-01	491231.8	3620473.9	71.0	0.00 4.00
3.16	NO						
L0000268		0	0.10204E-01	491231.7	3620465.3	71.2	0.00 4.00
3.16	NO						
L0000269		0	0.10204E-01	491231.7	3620456.7	71.4	0.00 4.00
3.16	NO						
L0000270		0	0.10204E-01	491231.6	3620448.1	71.6	0.00 4.00
3.16	NO						
L0000271		0	0.10204E-01	491231.5	3620439.5	71.7	0.00 4.00
3.16	NO						
L0000272		0	0.10204E-01	491231.5	3620430.9	71.8	0.00 4.00
3.16	NO						
L0000273		0	0.10204E-01	491231.4	3620422.3	71.9	0.00 4.00
3.16	NO						
L0000274		0	0.10204E-01	491231.3	3620413.7	71.6	0.00 4.00
3.16	NO						

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID		SOURCE IDs	
-----		-----	
IDLE_TRU	STCK3 ,		
GENERATO	STCK1 ,		
FUEL_TAN	STCK2 ,		
TRUCKS	L0000176 , L0000177 , L0000178 , L0000179 , L0000180 ,		
L0000181	, L0000182 , L0000183 ,		
	L0000184 , L0000185 , L0000186 , L0000187 , L0000188 ,		
L0000189	, L0000190 , L0000191 ,		
	L0000192 , L0000193 , L0000194 , L0000195 , L0000196 ,		
L0000197	, L0000198 , L0000199 ,		
	L0000200 , L0000201 , L0000202 , L0000203 , L0000204 ,		

L0000205	, L0000206	, L0000207	,			
	L0000208	, L0000209	, L0000210	, L0000211	, L0000212	,
L0000213	, L0000214	, L0000215	,			
	L0000216	, L0000217	, L0000218	, L0000219	, L0000220	,
L0000221	, L0000222	, L0000223	,			
	L0000224	, L0000225	, L0000226	, L0000227	, L0000228	,
L0000229	, L0000230	, L0000231	,			
	L0000232	, L0000233	, L0000234	, L0000235	, L0000236	,
L0000237	, L0000238	, L0000239	,			
	L0000240	, L0000241	, L0000242	, L0000243	, L0000244	,
L0000245	, L0000246	, L0000247	,			
	L0000248	, L0000249	, L0000250	, L0000251	, L0000252	,
L0000253	, L0000254	, L0000255	,			
	L0000256	, L0000257	, L0000258	, L0000259	, L0000260	,
L0000261	, L0000262	, L0000263	,			
	L0000264	, L0000265	, L0000266	, L0000267	, L0000268	,
L0000269	, L0000270	, L0000271	,			
	L0000272	, L0000273	, L0000274	,		
ALL	STCK1	, STCK2	, STCK3	, L0000176	, L0000177	,
L0000178	, L0000179	, L0000180	,			
	L0000181	, L0000182	, L0000183	, L0000184	, L0000185	,
L0000186	, L0000187	, L0000188	,			
	L0000189	, L0000190	, L0000191	, L0000192	, L0000193	,
L0000194	, L0000195	, L0000196	,			
	L0000197	, L0000198	, L0000199	, L0000200	, L0000201	,
L0000202	, L0000203	, L0000204	,			

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID

SOURCE IDs

```

-----
L0000210      L0000205      , L0000206      , L0000207      , L0000208      , L0000209      ,
              , L0000211      , L0000212      ,
L0000218      L0000213      , L0000214      , L0000215      , L0000216      , L0000217      ,
              , L0000219      , L0000220      ,
L0000226      L0000221      , L0000222      , L0000223      , L0000224      , L0000225      ,
              , L0000227      , L0000228      ,
L0000234      L0000229      , L0000230      , L0000231      , L0000232      , L0000233      ,
              , L0000235      , L0000236      ,
L0000242      L0000237      , L0000238      , L0000239      , L0000240      , L0000241      ,
              , L0000243      , L0000244      ,
L0000250      L0000245      , L0000246      , L0000247      , L0000248      , L0000249      ,
              , L0000251      , L0000252      ,
L0000258      L0000253      , L0000254      , L0000255      , L0000256      , L0000257      ,
              , L0000259      , L0000260      ,
L0000266      L0000261      , L0000262      , L0000263      , L0000264      , L0000265      ,
              , L0000267      , L0000268      ,
L0000274      L0000269      , L0000270      , L0000271      , L0000272      , L0000273      ,
              ,

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS

SOURCE ID: STCK1

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ
1	14.1,	28.8,	25.0,	-39.0,	3.1,	2	14.1,	30.1,	28.7,	-41.1,
-2.5,										
3	14.1,	30.4,	31.6,	-41.9,	-8.1,	4	14.1,	29.9,	33.6,	-41.5,
-13.4,										
5	14.1,	28.4,	34.5,	-39.9,	-18.3,	6	0.0,	0.0,	0.0,	0.0,

15	14.1,	34.3,	26.5,	8.4,	-23.4,	16	14.1,	33.2,	25.4,	12.3,
-20.1,										
17	14.1,	31.0,	23.6,	15.7,	-16.1,	18	14.1,	28.1,	23.4,	16.4,
-11.6,										
19	14.1,	28.8,	25.0,	15.7,	-6.4,	20	14.1,	30.1,	28.7,	14.6,
-0.4,										
21	14.1,	30.4,	31.6,	13.0,	5.6,	22	14.1,	29.9,	33.6,	11.1,
11.4,										
23	14.1,	28.4,	34.5,	8.8,	16.9,	24	0.0,	0.0,	0.0,	0.0,
0.0,										
25	0.0,	0.0,	0.0,	0.0,	0.0,	26	0.0,	0.0,	0.0,	0.0,
0.0,										
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	0.0,	0.0,	0.0,	0.0,
0.0,										
29	0.0,	0.0,	0.0,	0.0,	0.0,	30	0.0,	0.0,	0.0,	0.0,
0.0,										
31	0.0,	0.0,	0.0,	0.0,	0.0,	32	0.0,	0.0,	0.0,	0.0,
0.0,										
33	14.1,	34.3,	26.5,	-34.9,	23.4,	34	14.1,	33.2,	25.4,	-37.7,
20.1,										
35	14.1,	31.0,	23.6,	-39.3,	16.1,	36	14.1,	28.1,	23.4,	-39.7,
11.6,										

SOURCE ID: STCK3

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ
YADJ										
1	14.1,	28.8,	25.0,	-9.2,	6.2,	2	14.1,	30.1,	28.7,	-12.3,
5.7,										
3	14.1,	30.4,	31.6,	-15.0,	5.0,	4	14.1,	29.9,	33.6,	-17.3,
4.1,										
5	14.1,	28.4,	34.5,	-19.1,	3.1,	6	14.1,	26.5,	34.3,	-20.2,
2.3,										
7	14.1,	25.4,	33.2,	-20.8,	2.2,	8	14.1,	23.6,	31.0,	-20.7,
2.0,										
9	14.1,	23.4,	28.1,	-20.0,	2.9,	10	14.1,	25.0,	28.8,	-20.6,
3.3,										
11	14.1,	28.7,	30.1,	-20.7,	2.1,	12	14.1,	31.6,	30.4,	-20.2,
0.8,										
13	14.1,	33.6,	29.9,	-19.1,	-0.5,	14	14.1,	34.5,	28.4,	-17.4,
-1.8,										
15	14.1,	34.3,	26.5,	-15.6,	-3.0,	16	14.1,	33.2,	25.4,	-14.9,
-4.2,										
17	14.1,	31.0,	23.6,	-13.8,	-5.2,	18	14.1,	28.1,	23.4,	-14.6,
-5.9,										
19	14.1,	28.8,	25.0,	-15.8,	-6.2,	20	14.1,	30.1,	28.7,	-16.4,
-5.7,										
21	14.1,	30.4,	31.6,	-16.6,	-5.0,	22	14.1,	29.9,	33.6,	-16.3,
-4.1,										
23	14.1,	28.4,	34.5,	-15.4,	-3.1,	24	14.1,	26.5,	34.3,	-14.1,

-2.3,											
25	14.1,	25.4,	33.2,	-12.4,	-2.2,	26	14.1,	23.6,	31.0,	-10.3,	
-2.0,											
27	14.1,	23.4,	28.1,	-8.1,	-2.9,	28	14.1,	25.0,	28.8,	-8.2,	
-3.3,											
29	14.1,	28.7,	30.1,	-9.4,	-2.1,	30	14.1,	31.6,	30.4,	-10.2,	
-0.8,											
31	14.1,	33.6,	29.9,	-10.8,	0.5,	32	14.1,	34.5,	28.4,	-11.1,	
1.8,											
33	14.1,	34.3,	26.5,	-11.0,	3.0,	34	14.1,	33.2,	25.4,	-10.6,	
4.2,											
35	14.1,	31.0,	23.6,	-9.8,	5.2,	36	14.1,	28.1,	23.4,	-8.8,	
5.9,											

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

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

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

491380.6, 491390.3, 491400.0, 491409.7, 491419.3, 491429.0, 491438.7,
 491448.4, 491458.1, 491467.8,
 491477.5, 491487.2, 491496.9, 491506.5, 491516.2, 491525.9, 491535.6,
 491545.3, 491555.0, 491564.7,
 491574.4,

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

3620526.2, 3620544.2, 3620562.3, 3620580.3, 3620598.4, 3620616.4, 3620634.5,
 3620652.5, 3620670.5, 3620688.6,
 3620706.6, 3620724.6, 3620742.7, 3620760.7, 3620778.8, 3620796.8, 3620814.9,
 3620832.9, 3620850.9, 3620869.0,
 3620887.0,

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)					X-COORD (METERS)	
	491380.58	491390.27	491399.96	491409.65	491419.34	
491429.03	491438.72	491448.41	491458.10			

- - - - -

3620887.01		64.60	64.90	65.20	65.20	65.30
65.60	66.00	66.40	66.70			
3620868.97		65.70	66.20	66.50	66.80	67.10
67.30	67.40	67.60	67.70			
3620850.93		66.10	66.80	67.40	67.70	68.00
68.20	68.20	68.30	68.40			
3620832.89		68.00	68.80	69.40	69.60	69.80
69.90	70.00	70.00	70.00			
3620814.85		69.70	70.50	71.20	71.30	71.40
71.50	71.50	71.50	71.40			
3620796.81		71.00	71.80	72.40	72.50	72.60
72.60	72.60	72.60	72.60			
3620778.77		71.70	72.40	72.90	73.00	73.10
73.20	73.20	73.20	73.30			
3620760.73		72.00	72.60	73.00	73.10	73.20
73.30	73.40	73.50	73.60			
3620742.69		72.10	72.60	72.90	73.00	73.00
73.10	73.20	73.30	73.50			
3620724.65		72.10	72.40	72.70	72.70	72.70
72.80	72.90	73.00	73.30			
3620706.61		71.70	71.90	72.00	72.10	72.20
72.30	72.40	72.50	72.90			
3620688.57		71.30	71.40	71.40	71.50	71.50
71.70	71.90	72.10	72.50			
3620670.53		70.90	70.90	70.90	70.90	70.80
71.10	71.40	71.80	72.10			
3620652.49		70.70	70.60	70.60	70.60	70.60
70.80	71.10	71.40	71.80			
3620634.45		70.40	70.40	70.40	70.40	70.40
70.60	70.80	71.10	71.40			
3620616.41		70.20	70.20	70.10	70.20	70.20
70.40	70.70	70.90	71.20			
3620598.37		70.00	69.90	69.90	69.90	70.00
70.20	70.40	70.70	70.90			
3620580.33		69.90	69.70	69.60	69.70	69.80
69.90	70.10	70.30	70.60			
3620562.29		70.00	69.80	69.70	69.70	69.80

69.90	70.10	70.30	70.50			
3620544.25 |	70.20	70.10	70.10	70.00	69.90	
69.90	70.20	70.40	70.50			
3620526.21	71.60	71.50	71.30	71.10	70.80	
70.70	70.80	70.90	70.90			

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD						
(METERS)						
	491467.79	491477.48	491487.17	491496.86	491506.55	
491516.24	491525.93	491535.62	491545.31			

3620887.01 |	67.10	67.40	67.80	68.10	68.20
68.10	68.00	67.80	67.60		
3620868.97 |	67.90	68.10	68.30	68.50	68.70
69.00	69.20	69.30	69.40		
3620850.93 |	68.60	68.70	68.80	68.90	69.10
69.40	69.70	69.70	69.60		
3620832.89 |	70.00	70.00	69.90	69.90	70.00
70.10	70.30	70.40	70.40		
3620814.85 |	71.30	71.20	71.00	70.90	70.80
70.90	70.90	71.00	71.10		
3620796.81 |	72.50	72.40	72.10	71.80	71.70
71.60	71.50	71.50	71.50		
3620778.77 |	73.30	73.30	73.00	72.70	72.50
72.30	72.10	72.10	72.10		
3620760.73 |	73.70	73.80	73.60	73.50	73.30
73.10	72.90	72.80	72.70		
3620742.69 |	73.70	73.90	73.80	73.80	73.80
73.70	73.70	73.40	73.10		
3620724.65 |	73.60	73.80	73.90	74.00	74.10
74.20	74.30	74.00	73.60		
3620706.61 |	73.30	73.60	73.80	73.90	74.10
74.30	74.50	74.20	73.90		
3620688.57 |	72.90	73.30	73.50	73.70	73.90
74.10	74.40	74.30	74.10		
3620670.53 |	72.50	72.80	73.00	73.20	73.50
73.80	74.00	74.00	74.00		

3620652.49	|	72.10	72.40	72.60	72.80	73.10
73.30		73.60	73.70	73.80		
3620634.45	|	71.80	72.00	72.20	72.40	72.60
72.90		73.20	73.40	73.50		
3620616.41	|	71.50	71.70	71.90	72.10	72.30
72.50		72.70	73.00	73.20		
3620598.37	|	71.20	71.40	71.50	71.70	71.90
72.10		72.30	72.60	72.90		
3620580.33	|	70.90	71.10	71.20	71.20	71.40
71.70		72.10	72.40	72.70		
3620562.29	|	70.70	70.90	70.90	71.00	71.20
71.50		71.80	72.10	72.50		
3620544.25	|	70.60	70.70	70.80	70.80	71.00
71.30		71.60	71.90	72.30		
3620526.21		71.00	71.10	71.10	71.20	71.40
71.70		72.00	72.20	72.40		

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	|	491555.00	491564.69	491574.38	X-COORD (METERS)
3620887.01	|	67.20	66.10	65.00	
3620868.97	|	69.40	68.70	68.00	
3620850.93	|	69.50	69.70	69.90	
3620832.89	|	70.40	70.30	70.20	
3620814.85	|	71.20	70.90	70.60	
3620796.81	|	71.50	71.30	71.00	
3620778.77	|	72.00	71.70	71.40	
3620760.73	|	72.50	72.10	71.70	
3620742.69	|	72.80	72.40	71.90	
3620724.65	|	73.10	72.60	72.10	
3620706.61	|	73.60	73.00	72.30	
3620688.57	|	73.90	73.20	72.60	
3620670.53	|	73.90	73.30	72.80	
3620652.49	|	73.80	73.40	73.00	
3620634.45	|	73.60	73.40	73.20	
3620616.41	|	73.40	73.30	73.30	

3620598.37	|	73.20	73.30	73.40
3620580.33	|	73.00	73.20	73.40
3620562.29	|	72.80	73.10	73.40
3620544.25		72.60	72.90	73.30
3620526.21		72.60	72.90	73.20

▲ *** AERMOD - VERSION 22112 *** *** C:\Users\anoll\OneDrive -
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 *** AERMET - VERSION 22112 *** ***
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*** MODELOPTs: RegDFault CONC ELEV RURAL ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD	|	X-COORD (METERS)				
(METERS)	|	491380.58	491390.27	491399.96	491409.65	491419.34
491429.03	|	491438.72	491448.41	491458.10		

3620887.01	|	64.60	65.80	65.80	65.20	66.60
66.60		66.00	67.10	66.70		
3620868.97	|	65.70	66.20	66.50	66.80	67.10
67.30		67.40	67.60	67.70		
3620850.93	|	72.90	70.80	70.80	71.20	71.20
68.20		68.20	68.30	68.40		
3620832.89	|	72.90	70.80	70.80	69.60	69.80
69.90		70.00	70.00	70.00		
3620814.85	|	72.90	70.50	71.20	71.30	71.40
71.50		71.50	71.50	71.40		
3620796.81	|	72.90	72.90	72.40	72.50	72.60
72.60		72.60	72.60	72.60		
3620778.77	|	71.70	72.40	72.90	73.00	73.10
73.20		73.20	73.20	73.30		
3620760.73	|	72.00	72.60	73.00	73.10	73.20
73.30		73.40	73.50	73.60		
3620742.69	|	72.10	72.60	72.90	73.00	73.00
73.10		73.20	73.30	73.50		
3620724.65	|	72.10	72.40	72.70	72.70	72.70
72.80		72.90	73.00	73.30		
3620706.61	|	71.70	71.90	72.00	72.10	72.20
72.30		72.40	72.50	72.90		
3620688.57	|	71.30	71.40	71.40	71.50	71.50
71.70		71.90	72.10	72.50		
3620670.53	|	70.90	70.90	70.90	70.90	70.80
71.10		71.40	71.80	72.10		

3620652.49	70.70	70.60	70.60	70.60	70.60
70.80	71.10	71.40	71.80		
3620634.45	70.40	70.40	70.40	70.40	70.40
70.60	70.80	71.10	71.40		
3620616.41	70.20	70.20	70.10	70.20	70.20
70.40	70.70	70.90	71.20		
3620598.37	70.00	69.90	69.90	69.90	70.00
70.20	70.40	70.70	70.90		
3620580.33	69.90	69.70	69.60	69.70	69.80
69.90	70.10	70.30	70.60		
3620562.29	70.00	69.80	69.70	69.70	69.80
69.90	70.10	70.30	70.50		
3620544.25	70.20	70.10	70.10	70.00	69.90
69.90	70.20	70.40	70.50		
3620526.21	71.60	71.50	71.30	71.10	70.80
70.70	70.80	70.90	70.90		

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	491467.79	491477.48	491487.17	491496.86	491506.55
491516.24	491525.93	491535.62	491545.31		

3620887.01	67.10	67.40	67.80	68.10	68.20
68.10	68.80	68.80	69.50		
3620868.97	67.90	68.10	68.30	68.50	68.70
69.00	69.20	69.30	69.40		
3620850.93	68.60	68.70	68.80	68.90	69.10
69.40	69.70	69.70	69.60		
3620832.89	70.00	70.00	69.90	69.90	70.00
70.10	70.30	70.40	70.40		
3620814.85	71.30	71.20	71.00	70.90	70.80
70.90	70.90	71.00	71.10		
3620796.81	72.50	72.40	72.10	71.80	71.70
71.60	71.50	71.50	71.50		
3620778.77	73.30	73.30	73.00	72.70	72.50
72.30	72.10	72.10	72.10		
3620760.73	73.70	73.80	73.60	73.50	73.30

73.10	72.90	72.80	72.70			
3620742.69	73.70	73.70	73.90	73.80	73.80	73.80
73.70	73.70	73.40	73.10			
3620724.65	73.60	73.80	73.90	74.00	74.10	
74.20	74.30	74.00	73.60			
3620706.61	73.30	73.60	73.80	73.90	74.10	
74.30	74.50	74.20	73.90			
3620688.57	72.90	73.30	73.50	73.70	73.90	
74.10	74.40	74.30	74.10			
3620670.53	72.50	72.80	73.00	73.20	73.50	
73.80	74.00	74.00	74.00			
3620652.49	72.10	72.40	72.60	72.80	73.10	
73.30	73.60	73.70	73.80			
3620634.45	71.80	72.00	72.20	72.40	72.60	
72.90	73.20	73.40	73.50			
3620616.41	71.50	71.70	71.90	72.10	72.30	
72.50	72.70	73.00	73.20			
3620598.37	71.20	71.40	71.50	71.70	71.90	
72.10	72.30	72.60	72.90			
3620580.33	70.90	71.10	71.20	71.20	71.40	
71.70	72.10	72.40	72.70			
3620562.29	70.70	70.90	70.90	71.00	71.20	
71.50	71.80	72.10	72.50			
3620544.25	70.60	70.70	70.80	70.80	71.00	
71.30	71.60	71.90	72.30			
3620526.21	71.00	71.10	71.10	71.20	71.40	
71.70	72.00	72.20	72.40			

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	491555.00	491564.69	491574.38	X-COORD (METERS)
3620887.01	69.50	70.10	70.10	
3620868.97	69.40	68.70	70.10	
3620850.93	69.50	69.70	69.90	
3620832.89	70.40	70.30	70.20	
3620814.85	71.20	70.90	70.60	

3620796.81	71.50	71.30	71.00
3620778.77	72.00	71.70	71.40
3620760.73	72.50	72.10	71.70
3620742.69	72.80	72.40	71.90
3620724.65	73.10	72.60	72.10
3620706.61	73.60	73.00	72.30
3620688.57	73.90	73.20	72.60
3620670.53	73.90	73.30	72.80
3620652.49	73.80	73.40	73.00
3620634.45	73.60	73.40	73.20
3620616.41	73.40	73.30	73.30
3620598.37	73.20	73.30	73.40
3620580.33	73.00	73.20	73.40
3620562.29	72.80	73.10	73.40
3620544.25	72.60	72.90	73.30
3620526.21	72.60	72.90	73.20

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

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

(490849.1, 3620944.7,	73.9,	73.9,	0.0);	(490856.4,
3620922.1, 73.7,	73.7,	0.0);		
(490865.9, 3620906.0,	73.3,	73.3,	0.0);	(490894.3,
3620928.6, 74.4,	74.4,	0.0);		
(490890.0, 3620952.7,	74.4,	74.4,	0.0);	(490887.8,
3620978.9, 74.5,	74.5,	0.0);		
(490903.1, 3620989.1,	75.1,	75.1,	0.0);	(490912.6,
3621005.9, 75.8,	75.8,	0.0);		
(490923.5, 3621026.3,	76.8,	76.8,	0.0);	(490929.3,
3621045.2, 77.5,	77.5,	0.0);		
(490936.6, 3621068.5,	78.2,	78.2,	0.0);	(490956.3,
3621064.2, 79.1,	79.1,	0.0);		
(490973.0, 3621064.9,	79.8,	79.8,	0.0);	(490990.5,
3621068.5, 80.5,	80.5,	0.0);		
(491008.0, 3621067.1,	80.6,	80.7,	0.0);	(491066.3,
3621081.7, 78.8,	82.0,	0.0);		
(491058.3, 3621095.5,	81.3,	81.7,	0.0);	(491055.4,
3621110.1, 81.9,	81.9,	0.0);		
(491055.4, 3621126.9,	82.3,	82.3,	0.0);	(491059.8,
3621142.2, 82.4,	82.4,	0.0);		
(491058.3, 3621155.3,	82.4,	82.4,	0.0);	(491053.2,
3621175.0, 81.0,	81.0,	0.0);		

(491214.3, 3620900.9,	45.0,	87.2,	0.0);	(491183.0,
3620912.6, 44.8,	87.2,	0.0);		
(491263.8, 3620721.6,	67.7,	67.7,	0.0);	(491266.0,
3620737.7, 67.0,	67.0,	0.0);		
(491266.0, 3620752.2,	65.8,	65.8,	0.0);	(491266.8,
3620767.5, 64.8,	64.8,	0.0);		
(491266.8, 3620785.0,	63.7,	63.7,	0.0);	(491269.0,
3620807.6, 63.1,	63.1,	0.0);		
(491271.1, 3620838.2,	61.0,	70.1,	0.0);	(491219.4,
3620910.4, 44.8,	87.2,	0.0);		
(491226.7, 3620921.3,	44.7,	87.2,	0.0);	(491234.0,
3620933.7, 44.5,	87.2,	0.0);		
(491254.4, 3620925.7,	44.9,	87.2,	0.0);	(491266.8,
3620924.2, 45.0,	87.2,	0.0);		
(491279.1, 3620926.4,	45.3,	87.2,	0.0);	(491294.5,
3620927.2, 45.7,	87.2,	0.0);		
(491189.5, 3620925.0,	44.8,	87.2,	0.0);	(491197.5,
3620935.9, 44.6,	87.2,	0.0);		
(491207.0, 3620947.6,	44.4,	87.2,	0.0);	(491215.0,
3620962.9, 44.3,	87.2,	0.0);		
(491223.0, 3620973.8,	44.2,	87.2,	0.0);	(491229.6,
3620985.5, 44.4,	87.2,	0.0);		
(491314.1, 3620938.1,	47.0,	82.5,	0.0);	(491288.6,
3620853.5, 61.9,	68.7,	0.0);		
(491301.7, 3620860.8,	61.8,	68.7,	0.0);	(491317.0,
3620868.9, 63.4,	63.4,	0.0);		
(491249.3, 3620952.7,	44.4,	87.2,	0.0);	(491254.4,
3620965.8, 44.4,	87.2,	0.0);		
(491274.8, 3620954.1,	45.0,	87.2,	0.0);	(491286.4,
3620965.1, 45.5,	87.2,	0.0);		
(491239.8, 3621000.0,	44.7,	87.2,	0.0);	(491263.8,
3620977.4, 44.6,	87.2,	0.0);		
(491270.4, 3620988.4,	44.8,	87.2,	0.0);	(491295.2,
3620974.5, 45.9,	87.2,	0.0);		
(491246.3, 3621010.2,	44.8,	87.2,	0.0);	(491256.6,
3621026.3, 45.1,	87.2,	0.0);		
(491263.1, 3621035.8,	45.3,	87.2,	0.0);	(491271.1,
3621048.9, 45.5,	87.2,	0.0);		
(491300.3, 3621035.0,	46.0,	87.2,	0.0);	(491290.8,
3621020.4, 45.5,	87.2,	0.0);		
(491285.0, 3621008.8,	45.2,	87.2,	0.0);	(491278.4,
3620998.6, 45.0,	87.2,	0.0);		
(491299.6, 3620986.2,	45.8,	87.2,	0.0);	(491303.9,
3620996.4, 45.8,	87.2,	0.0);		
(491313.4, 3621011.0,	46.2,	87.2,	0.0);	(491320.0,
3621019.0, 46.4,	87.2,	0.0);		
(491308.3, 3620822.2,	63.9,	70.1,	0.0);	(491306.8,
3620803.3, 64.4,	71.0,	0.0);		
(491308.3, 3620783.6,	65.3,	71.0,	0.0);	(491307.6,
3620766.8, 66.4,	71.9,	0.0);		

(491311.2, 3620747.1,	68.0,	70.3,	0.0);	(491308.3,
3620730.4, 69.2,	70.3,	0.0);		
(491344.7, 3620729.7,	71.8,	71.8,	0.0);	(491343.3,
3620746.4, 71.2,	71.2,	0.0);		
(491344.7, 3620763.2,	70.8,	70.8,	0.0);	(491343.3,
3620779.9, 70.1,	70.1,	0.0);		
(491344.7, 3620799.6,	69.6,	69.6,	0.0);	(491346.2,
3620815.7, 68.9,	68.9,	0.0);		
(491347.7, 3620836.8,	66.4,	68.7,	0.0);	(491330.2,
3620876.1, 64.1,	64.1,	0.0);		
(491327.4, 3620952.6,	46.9,	87.2,	0.0);	(491338.3,
3620938.0, 49.3,	82.2,	0.0);		
(491324.5, 3620969.3,	46.5,	87.2,	0.0);	(491331.8,
3620982.5, 47.0,	87.2,	0.0);		
(491338.3, 3620994.1,	47.1,	87.2,	0.0);	(491345.6,
3621010.9, 46.8,	87.2,	0.0);		
(491368.9, 3620934.4,	52.8,	73.9,	0.0);	(491364.5,
3620948.9, 49.7,	82.0,	0.0);		

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL ADJ_U*

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

(491365.3, 3620961.3,	49.5,	82.2,	0.0);	(491363.1,
3620975.9, 49.1,	82.2,	0.0);		
(491364.5, 3620987.6,	48.7,	87.2,	0.0);	(491344.1,
3620883.3, 64.3,	64.7,	0.0);		
(491363.1, 3620884.1,	64.6,	64.6,	0.0);	(491362.0,
3620545.8, 70.1,	70.1,	0.0);		
(491356.2, 3620570.6,	70.0,	70.0,	0.0);	(491322.6,
3620545.1, 69.9,	73.8,	0.0);		
(491347.4, 3620535.6,	70.8,	73.4,	0.0);	(491265.8,
3620676.3, 69.5,	69.5,	0.0);		
(491284.0, 3620690.8,	69.7,	69.7,	0.0);	(491297.1,
3620671.9, 70.0,	70.0,	0.0);		
(491373.3, 3620591.5,	70.0,	70.0,	0.0);	

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*** MODELOPTs:      RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
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*** METEOROLOGICAL DAYS SELECTED FOR

PROCESSING ***

(1=YES; 0=NO)

[illegible]

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

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED

CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23,

10.80,

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL

DATA ***

Surface file: ..\Met Data\Lindbergh 2019 2021 v22122.SFC

Met Version: 22112

Profile file: ..\Met Data\Lindbergh_2019_2021_v22122.PFL

Surface format: FREE

Surface station no.:	23188	Upper air station no.:	3190
Name:	SAN_DIEGO/LINDBERGH_FIELD	Name:	UNKNOWN
Year:	2019	Year:	2019

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	-3.8	0.078	-9.000	-9.000	-999.	53.	11.4	0.02	0.83
1.00	1.40	356.	10.0	282.5	2.0					
19 01 01	1 02	-4.6	0.086	-9.000	-9.000	-999.	61.	12.4	0.02	0.83
1.00	1.55	336.	10.0	281.4	2.0					
19 01 01	1 03	-9.4	0.123	-9.000	-9.000	-999.	104.	18.0	0.02	0.83
1.00	2.18	357.	10.0	281.4	2.0					
19 01 01	1 04	-13.9	0.151	-9.000	-9.000	-999.	141.	25.2	0.02	0.83
1.00	2.64	26.	10.0	281.4	2.0					
19 01 01	1 05	-13.7	0.150	-9.000	-9.000	-999.	139.	24.7	0.01	0.83
1.00	2.64	31.	10.0	280.9	2.0					
19 01 01	1 06	-15.6	0.160	-9.000	-9.000	-999.	154.	28.2	0.01	0.83
1.00	2.81	40.	10.0	282.0	2.0					
19 01 01	1 07	-20.6	0.202	-9.000	-9.000	-999.	219.	45.1	0.02	0.83
1.00	3.47	26.	10.0	280.3	2.0					
19 01 01	1 08	-11.1	0.200	-9.000	-9.000	-999.	215.	65.8	0.02	0.83
0.49	3.39	18.	10.0	281.4	2.0					
19 01 01	1 09	36.3	0.219	0.541	0.005	158.	245.	-26.2	0.02	0.83
0.29	3.15	24.	10.0	284.2	2.0					
19 01 01	1 10	80.5	0.251	0.835	0.005	262.	302.	-17.9	0.02	0.83
0.22	3.52	28.	10.0	285.9	2.0					
19 01 01	1 11	110.8	0.250	1.329	0.005	771.	300.	-12.8	0.02	0.83
0.20	3.41	26.	10.0	287.0	2.0					
19 01 01	1 12	125.5	0.288	1.459	0.005	899.	371.	-17.3	0.01	0.83
0.19	4.07	45.	10.0	288.8	2.0					
19 01 01	1 13	118.6	0.434	1.485	0.005	1004.	687.	-62.6	0.01	0.83
0.19	6.63	39.	10.0	288.8	2.0					
19 01 01	1 14	100.0	0.500	1.440	0.005	1085.	848.	-113.5	0.01	0.83
0.20	7.81	34.	10.0	288.8	2.0					
19 01 01	1 15	65.6	0.423	1.270	0.005	1134.	665.	-104.6	0.02	0.83
0.23	6.52	28.	10.0	288.8	2.0					
19 01 01	1 16	18.3	0.364	0.833	0.005	1147.	529.	-238.7	0.01	0.83
0.32	5.79	41.	10.0	288.1	2.0					
19 01 01	1 17	-24.7	0.277	-9.000	-9.000	-999.	355.	84.7	0.01	0.83
0.59	4.73	30.	10.0	286.4	2.0					
19 01 01	1 18	-12.2	0.141	-9.000	-9.000	-999.	141.	22.0	0.01	0.83
1.00	2.50	57.	10.0	285.9	2.0					
19 01 01	1 19	-18.0	0.179	-9.000	-9.000	-999.	182.	35.3	0.01	0.83
1.00	3.12	58.	10.0	284.8	2.0					

19 01 01	1 20	-24.4	0.243	-9.000	-9.000	-999.	287.	64.8	0.01	0.83
1.00	4.17	48.	10.0	284.2	2.0					
19 01 01	1 21	-19.0	0.188	-9.000	-9.000	-999.	197.	39.0	0.02	0.83
1.00	3.24	61.	10.0	283.8	2.0					
19 01 01	1 22	-27.5	0.272	-9.000	-9.000	-999.	341.	81.5	0.02	0.83
1.00	4.61	61.	10.0	283.1	2.0					
19 01 01	1 23	-27.4	0.272	-9.000	-9.000	-999.	341.	81.6	0.02	0.83
1.00	4.61	68.	10.0	283.8	2.0					
19 01 01	1 24	-23.9	0.237	-9.000	-9.000	-999.	277.	61.6	0.02	0.83
1.00	4.03	71.	10.0	283.1	2.0					

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
19	01	01	01	10.0	1	356.	1.40	282.6	99.0	-99.00	-99.00

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

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: IDLE_TRU ***
 INCLUDING SOURCE(S): STCK3 ,

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

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

**

Y-COORD (METERS)				X-COORD (METERS)	
	491380.58	491390.27	491399.96	491409.65	491419.34
491429.03	491438.72	491448.41	491458.10		
- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -

3620887.01	8.09603	7.47388	6.86396	6.42658	6.07014
5.70316	5.31439	4.98584	4.78088		
3620868.97	8.09544	7.54203	7.04990	6.56131	6.21251
5.73914	5.53526	5.22192	5.02340		
3620850.93	8.72015	8.03075	7.54976	7.03300	6.69911
6.28648	5.92459	5.73055	5.41228		
3620832.89	9.78595	8.99370	8.30753	7.75122	7.34149
6.96206	6.56011	6.16227	5.88653		
3620814.85	11.33217	10.34970	9.48727	8.91536	8.20182

7.75258	7.35778	6.90646	6.59485		
3620796.81	|	13.66041	12.37028	11.20497	10.47187 9.82954
9.03260		8.53860	8.08973	7.68101	
3620778.77	|	16.97467	15.16713	13.62182	12.39613 11.55557
10.64341		10.00248	9.23670	8.71037	
3620760.73	|	20.61892	18.44987	16.50514	14.92108 13.79169
12.71821		11.65940	10.90091	10.03434	
3620742.69	|	26.63952	23.36821	20.37908	18.17416 16.53271
14.89673		13.68961	12.71529	11.61959	
3620724.65	|	32.69647	28.48903	25.43197	22.91818 20.52353
18.55031		16.23039	15.14345	13.64960	
3620706.61	|	36.39051	33.30396	30.03895	27.37271 24.89269
22.43455		19.98599	18.00961	16.36976	
3620688.57	|	36.27258	34.71236	32.30303	30.18304 27.72894
25.40425		23.38512	21.47049	19.64286	
3620670.53	|	33.98122	32.69686	31.57052	30.09624 28.80734
27.22794		25.25531	23.32563	21.80191	
3620652.49	|	29.67938	29.28904	28.63681	28.49454 27.53406
26.59360		25.37014	23.91808	22.73618	
3620634.45	|	26.21117	25.97413	25.54258	25.07609 24.80799
24.36209		23.66648	23.02348	22.40135	
3620616.41	|	23.03816	22.90127	22.77542	22.39924 22.27356
21.83131		21.60223	21.38315	21.09624	
3620598.37	|	20.76201	20.72319	20.29463	20.10023 20.08311
19.98901		19.44141	19.66447	19.59731	
3620580.33	|	19.24000	18.89441	18.39264	18.41265 18.10076
18.02004		17.97308	17.82251	17.75627	
3620562.29	|	18.05865	17.68310	17.19996	16.96315 16.57344
16.70777		16.58889	16.31201	16.29498	
3620544.25	|	17.05044	16.61699	16.32935	15.88742 15.64164
15.44224		15.24017	15.18469	15.09854	
3620526.21		16.19668	15.75046	15.40545	14.96055 14.78883
14.39747		14.14221	13.97561	13.87598	

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: IDLE_TRU ***

INCLUDING SOURCE(S): STCK3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

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

**

Y-COORD (METERS)					X-COORD (METERS)	
	491467.79	491477.48	491487.17		491496.86	491506.55
491516.24	491525.93	491535.62	491545.31			

3620887.01	4.49025	4.31508	4.09600	4.00248	3.81536
3.71763	3.60858	3.46410	3.43860		
3620868.97	4.76010	4.62347	4.39278	4.17267	4.01651
3.88669	3.74836	3.57975	3.46171		
3620850.93	5.11706	4.91012	4.63818	4.52924	4.31250
4.14466	3.91285	3.78730	3.75199		
3620832.89	5.56475	5.34305	5.14738	4.89228	4.70909
4.53688	4.38664	4.23598	4.10122		
3620814.85	6.31126	6.00123	5.78351	5.57007	5.29496
5.09324	4.91322	4.73485	4.56663		
3620796.81	7.21790	6.83922	6.58415	6.34711	6.10295
5.76242	5.55500	5.35035	5.08316		
3620778.77	8.09380	7.69618	7.37970	6.94297	6.66865
6.41392	6.17673	5.81929	5.59811		
3620760.73	9.22814	8.81750	8.22370	7.84083	7.37081
7.06657	6.78389	6.36154	6.11455		
3620742.69	10.75309	10.08713	9.34745	8.85125	8.35946
7.96525	7.43583	6.96689	6.70009		
3620724.65	12.53203	11.40514	10.83886	10.01795	9.26795
8.87987	8.25003	7.89110	7.41002		
3620706.61	15.06456	13.75574	12.49002	11.52754	10.55979
9.91222	9.23760	8.79649	8.23341		
3620688.57	17.74572	16.24539	14.79035	13.63258	12.72200
11.56917	10.69706	9.84510	9.46976		
3620670.53	20.21750	18.75511	17.21545	15.91004	14.53738
13.75665	12.59877	11.71023	11.02643		
3620652.49	21.61490	20.19237	19.07358	17.95557	16.58388
15.46790	14.69164	13.52249	12.60203		
3620634.45	21.67951	20.97121	19.83819	19.00739	18.11385
16.95190	15.98832	15.06291	14.28621		
3620616.41	20.52602	20.13852	19.65929	19.08695	18.15263
17.53896	16.56415	16.09902	15.36224		
3620598.37	19.09532	18.92030	18.72148	18.44005	18.10506
17.68983	16.93887	16.37022	15.81998		
3620580.33	17.70544	17.63783	17.55420	17.47544	16.99588
16.73075	16.46487	16.13128	15.46962		
3620562.29	16.33407	16.30379	16.07197	16.06399	15.95544
15.81837	15.66276	15.15718	14.92352		
3620544.25	15.05319	15.06263	14.85395	14.90176	14.90328
14.85424	14.49884	14.36304	14.19699		
3620526.21	13.77365	13.73945	13.71434	13.70593	13.71907
13.69732	13.67419	13.42365	13.35613		

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLE_TRU ***

INCLUDING SOURCE(S): STCK3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

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

**

Y-COORD (METERS)			X-COORD (METERS)
---------------------	--	--	------------------

491555.00	491564.69	491574.38
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3620887.01	3.31395	3.26644	3.17039
3620868.97	3.36161	3.30278	3.24519
3620850.93	3.59414	3.47605	3.36318
3620832.89	3.90846	3.79908	3.69508
3620814.85	4.40762	4.22373	4.11647
3620796.81	4.90584	4.75737	4.53668
3620778.77	5.40140	5.23721	4.98697
3620760.73	5.89518	5.71204	5.52486
3620742.69	6.45054	6.18555	5.99858
3620724.65	7.23983	6.85870	6.63108
3620706.61	7.98954	7.55412	7.30689
3620688.57	8.80043	8.45850	8.03092
3620670.53	10.26909	9.56106	9.13834
3620652.49	11.62924	11.21340	10.43817
3620634.45	13.40119	12.45228	11.71315
3620616.41	14.38467	13.65569	13.02497
3620598.37	14.96541	14.38949	13.82481
3620580.33	15.00502	14.77750	14.07715
3620562.29	14.68947	14.32694	13.98829
3620544.25	14.00681	13.57438	13.52473
3620526.21	13.25246	12.88881	12.70791

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLE_TRU ***
INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF VARIOUS IN MICROGRAMS/M**3			
X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
490849.15	3620944.66	1.89127	490856.44
3620922.06	2.06417		
490865.91	3620906.03	2.33922	490894.34
3620928.62	2.11980		
490889.96	3620952.67	1.98056	490887.78
3620978.91	1.71486		
490903.08	3620989.11	1.64921	490912.56
3621005.88	1.58311		
490923.49	3621026.28	1.55006	490929.32
3621045.23	1.48608		
490936.61	3621068.55	1.40401	490956.29
3621064.18	1.47201		
490973.05	3621064.91	1.49541	490990.54
3621068.55	1.63584		
491008.03	3621067.10	1.81087	491066.34
3621081.67	2.73650		
491058.32	3621095.52	2.41909	491055.40
3621110.10	2.35493		
491055.40	3621126.86	2.24753	491059.78
3621142.16	2.27007		
491058.32	3621155.28	2.18896	491053.22
3621174.96	2.16792		
491214.28	3620900.93	26.66438	491182.95
3620912.59	18.44702		
491263.84	3620721.64	82.53969	491266.03
3620737.67	103.41861		
491266.03	3620752.25	128.12064	491266.76
3620767.55	137.81556		
491266.76	3620785.05	108.10620	491268.95
3620807.64	47.01043		
491271.13	3620838.25	33.25720	491219.39
3620910.40	23.89644		
491226.67	3620921.33	20.56902	491233.96
3620933.72	17.80796		
491254.37	3620925.71	18.44636	491266.76

3620924.25	18.24153		
491279.15	3620926.44	17.48594	491294.45
3620927.16	16.74748		
491189.51	3620924.98	17.68121	491197.52
3620935.91	16.78667		
491207.00	3620947.57	15.83118	491215.01
3620962.88	13.84292		
491223.03	3620973.81	12.72727	491229.59
3620985.47	11.31497		
491314.13	3620938.10	14.42217	491288.62
3620853.55	24.84340		
491301.74	3620860.84	20.41840	491317.05
3620868.86	16.31668		
491249.27	3620952.67	14.47028	491254.37
3620965.79	12.85642		
491274.78	3620954.13	13.65924	491286.44
3620965.06	12.21614		
491239.79	3621000.04	10.29604	491263.84
3620977.45	11.57827		
491270.40	3620988.38	10.52679	491295.18
3620974.54	11.20000		
491246.35	3621010.25	9.59947	491256.56
3621026.28	8.63697		
491263.11	3621035.76	8.21800	491271.13
3621048.88	7.41990		
491300.28	3621035.03	7.63739	491290.81
3621020.45	8.24659		
491284.98	3621008.79	8.78733	491278.42
3620998.59	9.58680		
491299.56	3620986.20	10.32152	491303.93
3620996.40	9.47040		
491313.40	3621010.98	8.52078	491319.96
3621018.99	7.99056		
491308.30	3620822.22	21.45725	491306.84
3620803.27	30.62073		
491308.30	3620783.59	44.82016	491307.57
3620766.83	64.00497		
491311.22	3620747.15	72.94454	491308.30
3620730.39	73.03165		
491344.74	3620729.66	48.39962	491343.28
3620746.42	43.29735		
491344.74	3620763.18	33.56846	491343.28
3620779.94	26.22046		
491344.74	3620799.62	18.95551	491346.20
3620815.66	15.10688		

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 *** AERMET - VERSION 22112 *** ***
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLE_TRU ***

INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
491347.66	3620836.79	12.29152	491330.17
3620876.15	13.88678		
491327.38	3620952.58	12.29715	491338.31
3620938.00	12.48869		
491324.46	3620969.34	11.30310	491331.75
3620982.46	10.23705		
491338.31	3620994.12	9.30531	491345.60
3621010.89	8.28238		
491368.92	3620934.36	9.88924	491364.55
3620948.94	9.78371		
491365.28	3620961.33	9.54412	491363.09
3620975.90	9.36825		
491364.55	3620987.57	8.83556	491344.14
3620883.34	11.68549		
491363.09	3620884.07	9.51950	491362.01
3620545.80	18.37794		
491356.18	3620570.58	20.33229	491322.65
3620545.07	20.70278		
491347.43	3620535.60	18.52662	491265.80
3620676.27	51.73148		
491284.02	3620690.84	52.76536	491297.14
3620671.89	42.60576		
491373.28	3620591.53	20.43910	

▲ *** AERMOD - VERSION 22112 *** *** C:\Users\anol1\OneDrive -
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*** AERMET - VERSION 22112 *** ***
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: GENERATO ***

INCLUDING SOURCE(S): STCK1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

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

**

Y-COORD (METERS)				X-COORD (METERS)	
	491380.58	491390.27	491399.96	491409.65	491419.34
491429.03	491438.72	491448.41	491458.10		

3620887.01	4.65291	4.37584	4.13123	3.89524	3.69169
3.51900	3.36506	3.22233	3.08631		
3620868.97	5.13036	4.84613	4.58057	4.33962	4.11968
3.91807	3.73377	3.56405	3.40812		
3620850.93	6.01480	5.66519	5.33704	5.03843	4.76475
4.51497	4.29415	4.08797	3.89772		
3620832.89	7.46479	6.89862	6.39368	5.97765	5.60401
5.27670	4.97968	4.71860	4.47965		
3620814.85	9.09223	8.22655	7.46861	6.92857	6.45015
6.02383	5.66061	5.33312	5.05218		
3620796.81	10.80389	9.58177	8.58489	7.89148	7.28587
6.78226	6.33547	5.93676	5.57905		
3620778.77	13.07609	11.43057	10.13924	9.22472	8.43827
7.75626	7.19470	6.69920	6.23021		
3620760.73	16.13316	14.00462	12.34551	11.12423	10.07939
9.18062	8.40288	7.72569	7.13242		
3620742.69	18.99187	16.74613	14.91940	13.46228	12.24345
11.10617	10.10974	9.23685	8.42662		
3620724.65	20.06999	18.42182	16.81606	15.54946	14.33606
13.12461	12.01138	10.99939	9.97944		
3620706.61	19.63621	18.60542	17.64096	16.65053	15.63894
14.62101	13.61584	12.64184	11.53770		
3620688.57	18.28274	17.65743	17.08249	16.43748	15.83391
15.07860	14.29210	13.48275	12.54612		
3620670.53	16.65531	16.29762	15.90936	15.50715	15.14161
14.60915	14.05039	13.40802	12.78150		
3620652.49	15.68603	15.00193	14.55905	14.26964	13.97102
13.61464	13.22101	12.81556	12.34790		
3620634.45	15.21194	14.47465	13.74626	13.25133	12.85527
12.57360	12.28987	11.97973	11.66607		
3620616.41	15.39944	14.31888	13.55385	12.76245	12.27067
11.65822	11.39034	11.14564	10.88392		
3620598.37	15.57636	14.47039	13.60467	12.67672	12.02934
11.46758	11.01454	10.45099	10.22809		
3620580.33	15.61801	14.76123	13.77917	12.97684	12.12499

11.49097	10.93630	10.31749	9.85689		
3620562.29	|	15.17018	14.73974	13.90498	12.36559
11.71363	11.08590	10.37185	9.86086		
3620544.25	|	14.76886	14.26093	13.79004	12.56838
11.94745	11.19227	10.59541	10.03888		
3620526.21		14.06624	13.76689	13.33811	12.43110
12.02442	11.33994	10.78989	10.26486		

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 *** 13:53:14

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: GENERATO ***

INCLUDING SOURCE(S): STCK1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

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

**

Y-COORD	|				X-COORD (METERS)
(METERS)	|	491467.79	491477.48	491487.17	491496.86 491506.55
491516.24	491525.93	491535.62	491545.31		

3620887.01	|	2.96098	2.84189	2.72972	2.62367	2.52583
2.43626	2.35253	2.27378	2.19940			
3620868.97	|	3.26277	3.12740	3.00094	2.88249	2.77129
2.66399	2.56519	2.47494	2.38988			
3620850.93	|	3.71855	3.55528	3.40347	3.26200	3.12665
2.99604	2.87251	2.76803	2.67326			
3620832.89	|	4.26026	4.05824	3.87834	3.70523	3.53894
3.38447	3.23493	3.10090	2.98117			
3620814.85	|	4.79552	4.56017	4.35484	4.15388	3.96788
3.77861	3.61183	3.44934	3.29838			
3620796.81	|	5.27754	5.00326	4.78678	4.58386	4.36714
4.16718	3.98216	3.80040	3.63221			
3620778.77	|	5.83959	5.48897	5.24103	5.01074	4.77817
4.56307	4.36343	4.15142	3.95625			
3620760.73	|	6.60959	6.14622	5.81848	5.49481	5.22461
4.97655	4.74791	4.51923	4.30887			
3620742.69	|	7.71624	7.09119	6.64302	6.20916	5.82031
5.49689	5.17905	4.95746	4.75032			
3620724.65	|	9.07040	8.30873	7.67285	7.10434	6.59560

6.13962	5.73006	5.47201	5.25529		
3620706.61	|	10.51032	9.61997	8.85710	8.20820 7.57429
7.00063	6.48224	6.18114	5.89679		
3620688.57	|	11.61981	10.72111	9.97465	9.26686 8.60249
7.98387	7.36914	6.96243	6.61578		
3620670.53	|	12.07172	11.39841	10.77275	10.14834 9.48429
8.84267	8.27604	7.82359	7.39046		
3620652.49	|	11.89760	11.42048	10.96747	10.49337 9.95560
9.45905	8.91534	8.46952	8.03058		
3620634.45	|	11.30850	11.01491	10.70750	10.38076 10.03269
9.62110	9.19256	8.79628	8.43503		
3620616.41	|	10.62252	10.39252	10.16536	9.93503 9.69498
9.44012	9.16782	8.83903	8.53308		
3620598.37	|	9.99156	9.78106	9.60604	9.41768 9.23468
9.05109	8.86080	8.62583	8.37446		
3620580.33	|	9.47768	9.26543	9.08333	8.93672 8.77015
8.59233	8.39056	8.21004	8.02251		
3620562.29	|	9.42209	8.99606	8.67487	8.49181 8.31194
8.13086	7.96095	7.79966	7.61702		
3620544.25	|	9.53699	9.07434	8.67499	8.29717 7.97180
7.77444	7.59021	7.41960	7.24024		
3620526.21		9.73593	9.22914	8.77861	8.34889 7.96244
7.56830	7.23781	7.05422	6.88773		

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: GENERATO ***

INCLUDING SOURCE(S): STCK1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

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

**

Y-COORD (METERS)				X-COORD (METERS)
	491555.00	491564.69	491574.38	
3620887.01	2.12739	2.04694	1.95883	
3620868.97	2.31239	2.25333	2.19027	
3620850.93	2.58355	2.48976	2.40089	
3620832.89	2.86902	2.76845	2.67349	

3620814.85	3.15784	3.05391	2.95365
3620796.81	3.47621	3.34767	3.23304
3620778.77	3.78772	3.65147	3.52132
3620760.73	4.12924	3.98670	3.84846
3620742.69	4.55604	4.38830	4.23949
3620724.65	5.06964	4.88747	4.70862
3620706.61	5.62880	5.44445	5.27414
3620688.57	6.28756	6.11521	5.90198
3620670.53	7.01498	6.81501	6.56871
3620652.49	7.64205	7.40424	7.15167
3620634.45	8.06903	7.81388	7.54709
3620616.41	8.21421	7.99713	7.73077
3620598.37	8.10681	7.89645	7.67296
3620580.33	7.82449	7.64732	7.45847
3620562.29	7.45830	7.29553	7.12545
3620544.25	7.09010	6.94631	6.77681
3620526.21	6.73942	6.58568	6.44325

*** AERMOD - VERSION 22112 *** *** C:\Users\anoll\OneDrive -
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: GENERATO ***
 INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		

490849.15	3620944.66	1.17098	490856.44
3620922.06	1.33484		
490865.91	3620906.03	1.49733	490894.34
3620928.62	1.30260		
490889.96	3620952.67	1.16422	490887.78
3620978.91	1.03912		
490903.08	3620989.11	0.97448	490912.56
3621005.88	0.88071		
490923.49	3621026.28	0.80249	490929.32
3621045.23	0.77766		
490936.61	3621068.55	0.85124	490956.29

3621064.18	0.96259		
490973.05	3621064.91	1.14361	490990.54
3621068.55	1.45879		
491008.03	3621067.10	1.79086	491066.34
3621081.67	2.87395		
491058.32	3621095.52	2.48482	491055.40
3621110.10	2.39211		
491055.40	3621126.86	2.26954	491059.78
3621142.16	2.24273		
491058.32	3621155.28	2.25910	491053.22
3621174.96	2.18832		
491214.28	3620900.93	29.47647	491182.95
3620912.59	19.99563		
491263.84	3620721.64	51.69904	491266.03
3620737.67	52.17398		
491266.03	3620752.25	53.36226	491266.76
3620767.55	58.02575		
491266.76	3620785.05	74.97701	491268.95
3620807.64	61.84219		
491271.13	3620838.25	23.30343	491219.39
3620910.40	25.41426		
491226.67	3620921.33	21.41325	491233.96
3620933.72	17.83891		
491254.37	3620925.71	18.36498	491266.76
3620924.25	18.15726		
491279.15	3620926.44	17.90035	491294.45
3620927.16	18.56638		
491189.51	3620924.98	18.80264	491197.52
3620935.91	17.94867		
491207.00	3620947.57	16.65467	491215.01
3620962.88	14.41498		
491223.03	3620973.81	13.03733	491229.59
3620985.47	11.15444		
491314.13	3620938.10	15.82648	491288.62
3620853.55	13.45642		
491301.74	3620860.84	10.01936	491317.05
3620868.86	8.46128		
491249.27	3620952.67	14.75296	491254.37
3620965.79	12.53955		
491274.78	3620954.13	13.87636	491286.44
3620965.06	12.33051		
491239.79	3621000.04	10.04765	491263.84
3620977.45	11.46104		
491270.40	3620988.38	10.13144	491295.18
3620974.54	11.11772		
491246.35	3621010.25	9.35578	491256.56
3621026.28	9.03544		
491263.11	3621035.76	8.44925	491271.13
3621048.88	7.91769		
491300.28	3621035.03	7.75887	491290.81

3621020.45	7.99408		
491284.98	3621008.79	8.64786	491278.42
3620998.59	9.46175		
491299.56	3620986.20	10.34197	491303.93
3620996.40	9.75169		
491313.40	3621010.98	8.86549	491319.96
3621018.99	8.35692		
491308.30	3620822.22	18.06618	491306.84
3620803.27	27.78184		
491308.30	3620783.59	39.33102	491307.57
3620766.83	44.37821		
491311.22	3620747.15	38.49466	491308.30
3620730.39	32.52992		
491344.74	3620729.66	25.92376	491343.28
3620746.42	28.24445		
491344.74	3620763.18	26.15034	491343.28
3620779.94	22.10086		
491344.74	3620799.62	16.15146	491346.20
3620815.66	12.70898		

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: GENERATO ***
 INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
491347.66	3620836.79	9.25126	491330.17
3620876.15	7.36352		
491327.38	3620952.58	13.76086	491338.31
3620938.00	12.55061		
491324.46	3620969.34	12.44665	491331.75
3620982.46	11.22067		
491338.31	3620994.12	10.10791	491345.60
3621010.89	9.13726		
491368.92	3620934.36	5.86027	491364.55

3620948.94	8.69473			
491365.28	3620961.33	9.72510	491363.09	
3620975.90	10.15104			
491364.55	3620987.57	9.81299	491344.14	
3620883.34	6.35750			
491363.09	3620884.07	5.36966	491362.01	
3620545.80	15.95770			
491356.18	3620570.58	17.28296	491322.65	
3620545.07	17.59805			
491347.43	3620535.60	16.14698	491265.80	
3620676.27	38.42329			
491284.02	3620690.84	38.01828	491297.14	
3620671.89	32.17375			
491373.28	3620591.53	16.41229		

^ *** AERMOD - VERSION 22112 *** *** C:\Users\anol1\OneDrive -
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: FUEL_TAN ***
 INCLUDING SOURCE(S): STCK2 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

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

**

Y-COORD (METERS)					X-COORD (METERS)	
	491380.58	491390.27	491399.96	491409.65	491419.34	
491429.03	491438.72	491448.41	491458.10			

3620887.01	10.66222	9.64807	8.95475	8.50140	7.79263
7.28481	6.87164	6.30769	5.97061		
3620868.97	11.06014	10.06556	9.26830	8.56204	7.93449
7.40487	6.95844	6.52957	6.16792		
3620850.93	11.94874	10.79436	9.83089	9.08486	8.42119
8.24357	7.76719	7.30929	6.89334		
3620832.89	13.95872	12.63484	11.56971	10.95047	10.10721
9.38858	8.74704	8.19865	7.70600		
3620814.85	16.27100	15.23601	13.61536	12.45842	11.44707
10.55757	9.80097	9.12760	8.55363		
3620796.81	19.45703	17.29951	15.69114	14.21062	12.93799

11.86995	10.93650	10.11559	9.39014		
3620778.77	|	25.43457	21.89588	19.13966	17.06498 15.32633
13.85345	12.62925	11.57163	10.62083		
3620760.73	|	33.21305	28.37670	24.54255	21.55677 19.07124
16.99115	15.23923	13.75294	12.48266		
3620742.69	|	39.99900	35.08334	30.82890	27.21288 24.11454
21.37299	19.01927	17.00418	15.23877		
3620724.65	|	40.72182	37.71803	34.52498	31.56799 28.65616
25.82153	23.21142	20.85342	18.65199		
3620706.61	|	36.41425	35.34037	33.99753	32.32615 30.40793
28.33279	26.19266	24.06712	21.83770		
3620688.57	|	30.48398	30.49577	30.33315	29.78108 29.06326
27.92530	26.60200	25.13596	23.43856		
3620670.53	|	25.25410	25.62388	25.92511	26.06972 26.12369
25.59547	24.90880	23.99729	23.04742		
3620652.49	|	21.44138	21.63319	21.89567	22.21132 22.47547
22.44049	22.19288	21.82776	21.27370		
3620634.45	|	19.21355	18.98454	18.92599	19.05301 19.29142
19.37164	19.42198	19.31850	19.13454		
3620616.41	|	17.44408	17.29050	17.15833	16.91959 16.92418
16.87945	16.83219	16.89447	16.85509		
3620598.37	|	15.66124	15.88658	15.83147	15.65221 15.38893
15.13579	15.00814	14.90073	14.93061		
3620580.33	|	14.61237	14.63585	14.59728	14.54344 14.34359
14.09539	13.80732	13.61358	13.44176		
3620562.29	|	13.93835	13.72216	13.37073	13.25405 13.25035
13.10710	12.80890	12.51569	12.28653		
3620544.25	|	13.89814	13.02858	12.65172	12.45953 12.08778
12.15969	11.91646	11.65600	11.44410		
3620526.21		13.52150	12.75455	12.11680	11.44767 11.24045
11.03922	10.74965	10.65328	10.54727		

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: FUEL_TAN ***

INCLUDING SOURCE(S): STCK2 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

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

**

Y-COORD |

X-COORD (METERS)

(METERS) |	491467.79	491477.48	491487.17	491496.86	491506.55
491516.24	491525.93	491535.62	491545.31		
- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -

3620887.01 |	5.56815	5.22630	4.89300	4.60993	4.38906
4.22334	4.01862	3.88871	3.72987		
3620868.97 |	5.81495	5.49345	5.19966	4.93024	4.68237
4.43541	4.22472	4.04577	3.87915		
3620850.93 |	6.48914	6.14403	5.82790	5.53711	5.24801
4.96172	4.69778	4.50593	4.34484		
3620832.89 |	7.26268	6.86152	6.52079	6.18771	5.86133
5.56214	5.26709	5.01386	4.79774		
3620814.85 |	8.04041	7.57974	7.19078	6.81648	6.47706
6.12302	5.81999	5.52194	5.24782		
3620796.81 |	8.77201	8.22109	7.77852	7.38477	6.98595
6.62594	6.29891	5.97903	5.68648		
3620778.77 |	9.81645	9.10756	8.55456	8.06436	7.60500
7.19503	6.82756	6.45160	6.10977		
3620760.73 |	11.38897	10.44069	9.69422	9.01404	8.43872
7.92957	7.47680	7.04909	6.66389		
3620742.69 |	13.72631	12.42542	11.39259	10.46615	9.65735
8.97321	8.34581	7.86134	7.43211		
3620724.65 |	16.71666	15.06433	13.65728	12.42731	11.35161
10.40841	9.57895	8.95127	8.42234		
3620706.61 |	19.76075	17.90437	16.26218	14.82116	13.48988
12.30233	11.24622	10.45768	9.75539		
3620688.57 |	21.72051	20.02527	18.49226	17.02699	15.64879
14.36844	13.15190	12.18257	11.33040		
3620670.53 |	21.91875	20.77954	19.64096	18.46353	17.22510
16.01078	14.88352	13.88868	12.94307		
3620652.49 |	20.70428	20.04379	19.36539	18.60568	17.72199
16.84777	15.89280	15.02353	14.15311		
3620634.45 |	18.79267	18.52302	18.17447	17.75316	17.26393
16.65505	15.99623	15.34479	14.70230		
3620616.41 |	16.77090	16.70045	16.56419	16.36479	16.10707
15.79574	15.43421	14.97208	14.52090		
3620598.37 |	14.90063	14.92743	14.98425	14.92440	14.81537
14.65866	14.45781	14.16133	13.83308		
3620580.33 |	13.34833	13.36722	13.46056	13.60146	13.58046
13.46357	13.25619	13.07719	12.86884		
3620562.29 |	12.14130	12.07105	12.18377	12.25272	12.26169
12.20090	12.12375	12.02394	11.84693		
3620544.25 |	11.26606	11.14983	11.09881	11.16438	11.13957
11.07699	11.02358	10.96649	10.84545		
3620526.21	10.35036	10.16781	10.09033	10.00735	9.91966
9.82190	9.75808	9.76316	9.77088		

▲ *** AERMOD - VERSION 22112 *** *** C:\Users\anoll\OneDrive -
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: FUEL_TAN ***

INCLUDING SOURCE(S): STCK2 ,

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

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

**

Y-COORD (METERS)			X-COORD (METERS)
	491555.00	491564.69	491574.38
3620887.01	3.65324	3.74469	3.88476
3620868.97	3.73906	3.71916	3.59853
3620850.93	4.19530	4.00639	3.82993
3620832.89	4.59741	4.42862	4.27201
3620814.85	4.99489	4.83347	4.68592
3620796.81	5.41822	5.21001	5.03818
3620778.77	5.81870	5.59374	5.38943
3620760.73	6.33653	6.08310	5.85561
3620742.69	7.04905	6.73000	6.46867
3620724.65	7.98062	7.59216	7.25087
3620706.61	9.13034	8.65501	8.26587
3620688.57	10.55527	10.00657	9.48748
3620670.53	12.08934	11.46694	10.85544
3620652.49	13.33730	12.69978	12.07967
3620634.45	14.02897	13.46598	12.88643
3620616.41	14.02809	13.63482	13.15596
3620598.37	13.47466	13.18052	12.84877
3620580.33	12.63432	12.42354	12.18591
3620562.29	11.69987	11.53019	11.34011
3620544.25	10.76060	10.65651	10.48835
3620526.21	9.77183	9.71397	9.64271

▲ *** AERMOD - VERSION 22112 *** C:\Users\anol1\OneDrive -
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: FUEL_TAN ***

INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
490849.15	3620944.66	1.95963	490856.44
3620922.06	2.33989		
490865.91	3620906.03	2.64136	490894.34
3620928.62	2.33184		
490889.96	3620952.67	2.01243	490887.78
3620978.91	1.77090		
490903.08	3620989.11	1.67884	490912.56
3621005.88	1.55158		
490923.49	3621026.28	1.47909	490929.32
3621045.23	1.39485		
490936.61	3621068.55	1.25530	490956.29
3621064.18	1.28474		
490973.05	3621064.91	1.31516	490990.54
3621068.55	1.41564		
491008.03	3621067.10	1.63940	491066.34
3621081.67	3.60397		
491058.32	3621095.52	3.26384	491055.40
3621110.10	3.17587		
491055.40	3621126.86	3.12475	491059.78
3621142.16	3.18278		
491058.32	3621155.28	3.14376	491053.22
3621174.96	3.08336		
491214.28	3620900.93	68.57737	491182.95
3620912.59	70.70550		
491263.84	3620721.64	51.78545	491266.03
3620737.67	59.26996		
491266.03	3620752.25	82.57859	491266.76
3620767.55	127.71996		
491266.76	3620785.05	207.62688	491268.95
3620807.64	198.03134		
491271.13	3620838.25	70.00842	491219.39
3620910.40	57.35736		
491226.67	3620921.33	47.02547	491233.96
3620933.72	38.42469		
491254.37	3620925.71	40.78792	491266.76
3620924.25	39.33955		
491279.15	3620926.44	37.40265	491294.45

3620927.16	39.41000		
491189.51	3620924.98	55.16490	491197.52
3620935.91	42.09069		
491207.00	3620947.57	33.40795	491215.01
3620962.88	27.50393		
491223.03	3620973.81	24.44829	491229.59
3620985.47	20.96882		
491314.13	3620938.10	35.28409	491288.62
3620853.55	39.23960		
491301.74	3620860.84	29.80523	491317.05
3620868.86	22.81021		
491249.27	3620952.67	29.49371	491254.37
3620965.79	24.81276		
491274.78	3620954.13	27.62296	491286.44
3620965.06	23.54624		
491239.79	3621000.04	18.44810	491263.84
3620977.45	21.92264		
491270.40	3620988.38	19.17173	491295.18
3620974.54	20.61723		
491246.35	3621010.25	17.00463	491256.56
3621026.28	15.73409		
491263.11	3621035.76	14.52355	491271.13
3621048.88	13.29682		
491300.28	3621035.03	13.48215	491290.81
3621020.45	14.38270		
491284.98	3621008.79	15.46005	491278.42
3620998.59	17.48650		
491299.56	3620986.20	18.73719	491303.93
3620996.40	17.32283		
491313.40	3621010.98	15.27375	491319.96
3621018.99	14.10649		
491308.30	3620822.22	45.61011	491306.84
3620803.27	69.53099		
491308.30	3620783.59	99.46879	491307.57
3620766.83	99.72090		
491311.22	3620747.15	69.95227	491308.30
3620730.39	52.08575		
491344.74	3620729.66	49.23944	491343.28
3620746.42	59.43643		
491344.74	3620763.18	57.77164	491343.28
3620779.94	47.64944		
491344.74	3620799.62	32.77905	491346.20
3620815.66	25.82284		

▲ *** AERMOD - VERSION 22112 *** *** C:\Users\anol1\OneDrive -
 Dudek\Desktop\HARP2\Fairmount Fire Station *** 01/24/24
 *** AERMET - VERSION 22112 *** ***
 *** 13:53:14

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: FUEL_TAN ***
 INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF VARIOUS IN MICROGRAMS/M**3			
X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
491347.66	3620836.79	19.32265	491330.17
3620876.15	18.31993		
491327.38	3620952.58	28.89541	491338.31
3620938.00	37.88944		
491324.46	3620969.34	22.06151	491331.75
3620982.46	19.13125		
491338.31	3620994.12	16.74816	491345.60
3621010.89	14.60063		
491368.92	3620934.36	26.65631	491364.55
3620948.94	29.48530		
491365.28	3620961.33	27.63924	491363.09
3620975.90	23.19347		
491364.55	3620987.57	19.61392	491344.14
3620883.34	15.15749		
491363.09	3620884.07	12.40723	491362.01
3620545.80	15.85614		
491356.18	3620570.58	16.27011	491322.65
3620545.07	18.57598		
491347.43	3620535.60	16.97911	491265.80
3620676.27	39.64681		
491284.02	3620690.84	35.79242	491297.14
3620671.89	29.56393		
491373.28	3620591.53	15.40392	

▲ *** AERMOD - VERSION 22112 *** C:\Users\anol1\OneDrive -
 Dudek\Desktop\HARP2\Fairmount Fire Station *** 01/24/24
 *** AERMET - VERSION 22112 ***
 *** 13:53:14

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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: TRUCKS ***
 INCLUDING SOURCE(S): L0000176 , L0000177

```

, L0000178      , L0000179      , L0000180      ,
                  L0000181      , L0000182      , L0000183      , L0000184      , L0000185
, L0000186      , L0000187      , L0000188      ,
                  L0000189      , L0000190      , L0000191      , L0000192      , L0000193
, L0000194      , L0000195      , L0000196      ,
                  L0000197      , L0000198      , L0000199      , L0000200      , L0000201
, L0000202      , L0000203      , . . .      ,

```

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

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

**

Y-COORD (METERS)				X-COORD (METERS)	
	491380.58	491390.27	491399.96	491409.65	491419.34
491429.03	491438.72	491448.41	491458.10		

3620887.01	17.74359	16.48261	15.57725	14.92709	13.94830
13.23638	12.64839	11.86680	11.36429		
3620868.97	17.60165	16.43128	15.46341	14.58036	13.77184
13.06778	12.45285	11.84840	11.31876		
3620850.93	17.17075	15.91404	14.83596	13.99075	13.24623
13.08201	12.49521	11.91071	11.36552		
3620832.89	16.90049	15.82119	14.80203	14.22572	13.44672
12.77392	12.15122	11.61098	11.10684		
3620814.85	16.90527	16.11780	14.84002	14.01031	13.25856
12.57295	11.98547	11.44153	10.97285		
3620796.81	17.53356	16.14258	15.08475	14.19962	13.39869
12.71699	12.09091	11.51287	10.97702		
3620778.77	18.66142	17.07284	15.77062	14.82383	13.95550
13.15831	12.47306	11.84060	11.21470		
3620760.73	19.37474	17.81813	16.54566	15.56795	14.65999
13.81724	13.03561	12.31121	11.64056		
3620742.69	20.18027	18.61518	17.35733	16.34432	15.46821
14.59096	13.77294	13.01008	12.25146		
3620724.65	21.22872	19.67478	18.28834	17.26180	16.31941
15.38575	14.52308	13.72286	12.87536		
3620706.61	22.73217	21.12432	19.76228	18.52417	17.39581
16.36506	15.42127	14.55393	13.58639		
3620688.57	24.08331	22.51713	21.18226	19.85498	18.71832
17.51161	16.40834	15.39831	14.35065		
3620670.53	25.33770	23.81252	22.41560	21.13185	20.03860
18.67427	17.42619	16.21084	15.16947		
3620652.49	26.33133	24.85793	23.38943	22.04596	20.81464
19.50307	18.22256	17.05376	15.90924		
3620634.45	27.54329	25.80582	24.24839	22.83786	21.55342
20.19375	18.96000	17.75540	16.65789		

3620616.41	28.85404	26.90262	25.30800	23.67385	22.31508
20.89787	19.52710	18.36769	17.23292		
3620598.37	30.40925	28.35233	26.43194	24.74938	23.16668
21.66553	20.31735	19.01477	17.91177		
3620580.33	31.84734	29.76160	27.79508	25.85272	24.13826
22.62022	21.18300	19.89299	18.64774		
3620562.29	32.81974	30.68666	28.66810	26.76277	24.96884
23.36889	21.85793	20.50425	19.28389		
3620544.25	33.38590	31.14571	29.04146	27.25444	25.63938
24.09317	22.45573	21.05616	19.86776		
3620526.21	32.09663	30.02992	28.30483	26.74475	25.41992
24.01858	22.57059	21.25388	20.13301		

*** AERMOD - VERSION 22112 *** C:\Users\anoll\OneDrive -
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: TRUCKS ***
 INCLUDING SOURCE(S): L0000176 , L0000177
 , L0000178 , L0000179 , L0000180 ,
 L0000181 , L0000182 , L0000183 , L0000184 , L0000185
 , L0000186 , L0000187 , L0000188 ,
 L0000189 , L0000190 , L0000191 , L0000192 , L0000193
 , L0000194 , L0000195 , L0000196 ,
 L0000197 , L0000198 , L0000199 , L0000200 , L0000201
 , L0000202 , L0000203 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

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

**

Y-COORD (METERS)	X-COORD (METERS)				
	491467.79	491477.48	491487.17	491496.86	491506.55
491516.24	491525.93	491535.62	491545.31		

3620887.01	10.77850	10.26182	9.75059	9.29340	8.91192
8.59696	8.22975	7.94993	7.62898		
3620868.97	10.79210	10.29803	9.83370	9.39578	8.98200
8.56554	8.19565	7.86770	7.55554		
3620850.93	10.82399	10.34918	9.90404	9.48567	9.06468
8.64247	8.24544	7.94255	7.67747		
3620832.89	10.63606	10.19603	9.81487	9.42710	9.03436

8.66480	8.29062	7.96157	7.67295		
3620814.85	| 10.53417	10.12271	9.76772	9.40299	9.05967
8.68029	8.34934	8.01079	7.69072		
3620796.81	| 10.51599	10.08528	9.74894	9.43187	9.07286
8.73614	8.41944	8.09474	7.78917		
3620778.77	| 10.67647	10.17810	9.82082	9.48615	9.14084
8.81802	8.51602	8.17772	7.86173		
3620760.73	| 11.02021	10.44620	10.02573	9.59801	9.23322
8.89365	8.57753	8.25472	7.95456		
3620742.69	| 11.54709	10.89317	10.40479	9.91085	9.45172
9.05940	8.66341	8.38784	8.13156		
3620724.65	| 12.09108	11.40859	10.81562	10.26264	9.74812
9.27015	8.82662	8.54385	8.30944		
3620706.61	| 12.70203	11.93904	11.27974	10.71036	10.13921
9.60814	9.11407	8.82561	8.55267		
3620688.57	| 13.39783	12.53004	11.83536	11.19434	10.60069
10.04924	9.49730	9.13009	8.81863		
3620670.53	| 14.15436	13.28610	12.54309	11.85754	11.17715
10.54908	10.00914	9.58527	9.18786		
3620652.49	| 14.92593	14.01822	13.23822	12.51558	11.79513
11.17711	10.55925	10.07097	9.61473		
3620634.45	| 15.58134	14.72440	13.92669	13.18200	12.48652
11.78689	11.13780	10.58074	10.10408		
3620616.41	| 16.19743	15.31847	14.50762	13.75514	13.05286
12.39462	11.77624	11.14724	10.60479		
3620598.37	| 16.83208	15.91654	15.14259	14.36356	13.64194
12.97005	12.34141	11.70042	11.09893		
3620580.33	| 17.51558	16.55335	15.73912	15.05229	14.29504
13.53649	12.77826	12.12586	11.51669		
3620562.29	| 18.17779	17.16867	16.37774	15.58644	14.79721
14.01059	13.28275	12.60733	11.92832		
3620544.25	| 18.79184	17.81279	16.91694	16.15517	15.33411
14.51882	13.76409	13.06428	12.36306		
3620526.21	| 19.04190	18.04838	17.20513	16.36866	15.53745
14.71053	13.94276	13.28287	12.66870		

*** AERMOD - VERSION 22112 *** C:\Users\anoll\OneDrive -
 Dudek\Desktop\HARP2\Fairmount Fire Station *** 01/24/24
 *** AERMET - VERSION 22112 ***
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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: TRUCKS ***
 INCLUDING SOURCE(S): L0000176 , L0000177
 , L0000178 , L0000179 , L0000180 ,
 L0000181 , L0000182 , L0000183 , L0000184 , L0000185
 , L0000186 , L0000187 , L0000188 ,
 L0000189 , L0000190 , L0000191 , L0000192 , L0000193

, L0000194 , L0000195 , L0000196 ,
 L0000197 , L0000198 , L0000199 , L0000200 , L0000201
 , L0000202 , L0000203 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

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

**

Y-COORD (METERS)	X-COORD (METERS)		
	491555.00	491564.69	491574.38
3620887.01	7.39745	7.26919	7.21966
3620868.97	7.27885	7.15595	6.89919
3620850.93	7.42420	7.11781	6.82564
3620832.89	7.39799	7.15752	6.92722
3620814.85	7.38794	7.19080	7.00301
3620796.81	7.50146	7.27738	7.08827
3620778.77	7.59166	7.38746	7.19492
3620760.73	7.70175	7.51701	7.34284
3620742.69	7.89275	7.69687	7.53890
3620724.65	8.11900	7.93969	7.77080
3620706.61	8.29472	8.14150	8.02523
3620688.57	8.52396	8.40376	8.25688
3620670.53	8.85014	8.69966	8.52102
3620652.49	9.22578	9.00336	8.78917
3620634.45	9.65710	9.35233	9.06169
3620616.41	10.09663	9.74220	9.36729
3620598.37	10.53377	10.08794	9.66615
3620580.33	10.94608	10.45412	9.98891
3620562.29	11.34442	10.79861	10.28683
3620544.25	11.75922	11.19550	10.62346
3620526.21	12.09612	11.51414	10.96999

▲ *** AERMOD - VERSION 22112 *** C:\Users\anol1\OneDrive -
 Dudek\Desktop\HARP2\Fairmount Fire Station *** 01/24/24
 *** AERMET - VERSION 22112 ***
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: TRUCKS ***
 INCLUDING SOURCE(S): L0000176 , L0000177
 , L0000178 , L0000179 , L0000180 ,
 L0000181 , L0000182 , L0000183 , L0000184 , L0000185
 , L0000186 , L0000187 , L0000188 ,

, L0000189 , L0000190 , L0000191 , L0000192 , L0000193
 , L0000194 , L0000195 , L0000196 ,
 L0000197 , L0000198 , L0000199 , L0000200 , L0000201
 , L0000202 , L0000203 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
490849.15	3620944.66	2.42026	490856.44
3620922.06	2.58260		
490865.91	3620906.03	2.77790	490894.34
3620928.62	2.73752		
490889.96	3620952.67	2.59056	490887.78
3620978.91	2.42969		
490903.08	3620989.11	2.42495	490912.56
3621005.88	2.35081		
490923.49	3621026.28	2.25319	490929.32
3621045.23	2.14678		
490936.61	3621068.55	2.05567	490956.29
3621064.18	2.13002		
490973.05	3621064.91	2.19708	490990.54
3621068.55	2.26190		
491008.03	3621067.10	2.40682	491066.34
3621081.67	3.30271		
491058.32	3621095.52	2.87600	491055.40
3621110.10	2.71619		
491055.40	3621126.86	2.60190	491059.78
3621142.16	2.57962		
491058.32	3621155.28	2.49534	491053.22
3621174.96	2.48213		
491214.28	3620900.93	123.25007	491182.95
3620912.59	138.90542		
491263.84	3620721.64	83.58179	491266.03
3620737.67	81.48095		
491266.03	3620752.25	85.45085	491266.76
3620767.55	86.91589		
491266.76	3620785.05	79.79574	491268.95
3620807.64	65.10086		
491271.13	3620838.25	58.20036	491219.39
3620910.40	113.53156		
491226.67	3620921.33	105.91752	491233.96
3620933.72	100.14669		
491254.37	3620925.71	84.96166	491266.76

3620924.25	77.13788		
491279.15	3620926.44	70.34549	491294.45
3620927.16	62.80153		
491189.51	3620924.98	135.75038	491197.52
3620935.91	132.44002		
491207.00	3620947.57	127.36850	491215.01
3620962.88	127.11058		
491223.03	3620973.81	123.71619	491229.59
3620985.47	123.97455		
491314.13	3620938.10	54.29719	491288.62
3620853.55	39.93594		
491301.74	3620860.84	33.69116	491317.05
3620868.86	28.54467		
491249.27	3620952.67	90.84300	491254.37
3620965.79	89.78404		
491274.78	3620954.13	75.00776	491286.44
3620965.06	70.11707		
491239.79	3621000.04	121.66530	491263.84
3620977.45	85.75531		
491270.40	3620988.38	84.06696	491295.18
3620974.54	66.61389		
491246.35	3621010.25	120.37353	491256.56
3621026.28	118.41745		
491263.11	3621035.76	116.44679	491271.13
3621048.88	114.31354		
491300.28	3621035.03	74.33579	491290.81
3621020.45	78.11375		
491284.98	3621008.79	79.19760	491278.42
3620998.59	81.22924		
491299.56	3620986.20	65.75367	491303.93
3620996.40	64.63182		
491313.40	3621010.98	60.93150	491319.96
3621018.99	57.78436		
491308.30	3620822.22	36.33520	491306.84
3620803.27	38.85064		
491308.30	3620783.59	39.41947	491307.57
3620766.83	40.97443		
491311.22	3620747.15	41.05354	491308.30
3620730.39	42.77901		
491344.74	3620729.66	27.44574	491343.28
3620746.42	26.89850		
491344.74	3620763.18	25.58698	491343.28
3620779.94	25.48653		
491344.74	3620799.62	24.31138	491346.20
3620815.66	23.11564		

▲ *** AERMOD - VERSION 22112 *** *** C:\Users\anoll\OneDrive -
 Dudek\Desktop\HARP2\Fairmount Fire Station *** 01/24/24
 *** AERMET - VERSION 22112 *** ***
 *** 13:53:14

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCKS ***

INCLUDING SOURCE(S): L0000176 , L0000177
, L0000178 , L0000179 , L0000180 ,
L0000181 , L0000182 , L0000183 , L0000184 , L0000185
, L0000186 , L0000187 , L0000188 ,
L0000189 , L0000190 , L0000191 , L0000192 , L0000193
, L0000194 , L0000195 , L0000196 ,
L0000197 , L0000198 , L0000199 , L0000200 , L0000201
, L0000202 , L0000203 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
491347.66	3620836.79	22.19781	491330.17
3620876.15	24.87292		
491327.38	3620952.58	49.79598	491338.31
3620938.00	43.53810		
491324.46	3620969.34	51.94151	491331.75
3620982.46	49.23052		
491338.31	3620994.12	46.85516	491345.60
3621010.89	44.12567		
491368.92	3620934.36	29.30679	491364.55
3620948.94	35.26587		
491365.28	3620961.33	35.49307	491363.09
3620975.90	36.74425		
491364.55	3620987.57	36.45676	491344.14
3620883.34	22.18595		
491363.09	3620884.07	19.66547	491362.01
3620545.80	38.89460		
491356.18	3620570.58	39.81674	491322.65
3620545.07	56.35921		
491347.43	3620535.60	42.84947	491265.80
3620676.27	77.78242		
491284.02	3620690.84	58.82533	491297.14
3620671.89	52.76599		
491373.28	3620591.53	32.79185	

*** AERMET - VERSION 22112 ***
*** 13:53:14

PAGE 40
*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL

INCLUDING SOURCE(S): STCK1 , STCK2
, STCK3 , L0000176 , L0000177 ,
L0000178 , L0000179 , L0000180 , L0000181 , L0000182
, L0000183 , L0000184 , L0000185 ,
L0000186 , L0000187 , L0000188 , L0000189 , L0000190
, L0000191 , L0000192 , L0000193 ,
L0000194 , L0000195 , L0000196 , L0000197 , L0000198
, L0000199 , L0000200 , . . . ,

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

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

Y-COORD (METERS)				X-COORD (METERS)	
491429.03	491438.72	491448.41	491458.10	491409.65	491419.34

3620887.01	41.15475	37.98041	35.52720	33.75032	31.50277
29.74334	28.19948	26.38266	25.20210		
3620868.97	41.88760	38.88500	36.36218	34.04333	32.03852
30.12987	28.68032	27.16394	25.91819		
3620850.93	43.85444	40.40434	37.55365	35.14704	33.13128
32.12703	30.48114	29.03852	27.56887		
3620832.89	48.10995	44.34835	41.07295	38.90506	36.49943
34.40126	32.43805	30.69051	29.17901		
3620814.85	53.60066	49.93006	45.41126	42.31266	39.35759
36.90693	34.80483	32.80872	31.17352		
3620796.81	61.45489	55.39414	50.56575	46.77359	43.45209
40.40180	37.90148	35.65496	33.62722		
3620778.77	74.14675	65.56641	58.67135	53.50966	49.27568
45.41143	42.29949	39.34813	36.77612		
3620760.73	89.33988	78.64932	69.93885	63.17004	57.60230
52.70723	48.33713	44.69074	41.28999		
3620742.69	105.81067	93.81287	83.48470	75.19364	68.35891
61.96686	56.59155	51.96640	47.53645		
3620724.65	114.71700	104.30366	95.06134	87.29744	79.83516
72.88220	65.97627	60.71913	55.15638		
3620706.61	115.17315	108.37407	101.43973	94.87356	88.33537

81.75342	75.21577	69.27249	63.33154		
3620688.57	|	109.12261	105.38270	100.90092	96.25658 91.34444
85.91976	80.68756	75.48751	69.97820		
3620670.53	|	101.22833	98.43088	95.82058	92.80496 90.11124
86.10683	81.64069	76.94177	72.80029		
3620652.49	|	93.13812	90.78209	88.48097	87.02145 84.79519
82.15180	79.00659	75.61516	72.26701		
3620634.45	|	88.17996	85.23914	82.46321	80.21829 78.50809
76.50107	74.33834	72.07713	69.85985		
3620616.41	|	84.73572	81.41327	78.79561	75.75513 73.78349
71.26685	69.35185	67.79094	66.06817		
3620598.37	|	82.40885	79.43248	76.16272	73.17854 70.66806
68.25790	65.78145	64.03094	62.66777		
3620580.33	|	81.31772	78.05310	74.56417	71.78564 68.70760
66.22662	63.89969	61.64657	59.70266		
3620562.29	|	79.98692	76.83166	73.14377	70.03550 67.15822
64.89738	62.34162	59.70379	57.72625		
3620544.25	|	79.10335	75.05222	71.81257	68.89159 65.93718
63.64254	60.80463	58.49227	56.44927		
3620526.21	|	75.88104	72.30183	69.16519	65.96034 63.88030
61.47969	58.80240	56.67266	54.82112		

▲ *** AERMOD - VERSION 22112 *** *** C:\Users\anoll\OneDrive -
 Dudek\Desktop\HARP2\Fairmount Fire Station *** 01/24/24
 *** AERMET - VERSION 22112 *** ***
 *** 13:53:14

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): STCK1 , STCK2
 , STCK3 , L0000176 , L0000177 ,
 L0000178 , L0000179 , L0000180 , L0000181 , L0000182
 , L0000183 , L0000184 , L0000185 ,
 L0000186 , L0000187 , L0000188 , L0000189 , L0000190
 , L0000191 , L0000192 , L0000193 ,
 L0000194 , L0000195 , L0000196 , L0000197 , L0000198
 , L0000199 , L0000200 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

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

**

Y-COORD	|					X-COORD (METERS)
(METERS)		491467.79	491477.48	491487.17	491496.86	491506.55
491516.24		491525.93	491535.62	491545.31		

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- - - - -
3620887.01 | 23.79788 22.64508 21.46932 20.52948 19.64217
18.97419 18.20948 17.57652 16.99685
3620868.97 | 24.62992 23.54235 22.42709 21.38119 20.45217
19.55162 18.73391 17.96815 17.28627
3620850.93 | 26.14875 24.95862 23.77359 22.81402 21.75185
20.74489 19.72858 19.00381 18.44756
3620832.89 | 27.72374 26.45885 25.36137 24.21232 23.14373
22.14828 21.17927 20.31231 19.55309
3620814.85 | 29.68135 28.26386 27.09686 25.94342 24.79957
23.67517 22.69438 21.71693 20.80355
3620796.81 | 31.78344 30.14886 28.89838 27.74761 26.52891
25.29168 24.25551 23.22452 22.19102
3620778.77 | 34.42630 32.47082 30.99611 29.50423 28.19266
26.99004 25.88374 24.60002 23.52586
3620760.73 | 38.24691 35.85061 33.76213 31.94770 30.26736
28.86634 27.58613 26.18459 25.04186
3620742.69 | 43.74273 40.49691 37.78784 35.43741 33.28883
31.49474 29.62410 28.17354 27.01407
3620724.65 | 50.41015 46.18679 42.98461 39.81224 36.96327
34.69804 32.38565 30.85822 29.39709
3620706.61 | 58.03765 53.21913 48.88904 45.26726 41.76316
38.82332 36.08014 34.26091 32.43825
3620688.57 | 64.48387 59.52181 55.09263 51.12077 47.57396
43.97072 40.71539 38.12019 36.23456
3620670.53 | 68.36233 64.21916 60.17225 56.37945 52.42391
49.15918 45.76747 43.00777 40.54781
3620652.49 | 69.14271 65.67487 62.64466 59.57021 56.05658
52.95183 50.05903 47.08651 44.40045
3620634.45 | 67.36202 65.23354 62.64685 60.32331 57.89700
55.01495 52.31491 49.78473 47.52762
3620616.41 | 64.11687 62.54996 60.89646 59.14192 57.00754
55.16943 52.94241 51.05737 49.02101
3620598.37 | 60.81959 59.54534 58.45435 57.14569 55.79705
54.36963 52.59889 50.85781 49.12645
3620580.33 | 58.04703 56.82383 55.83720 55.06591 53.64154
52.32313 50.88988 49.54437 47.87766
3620562.29 | 56.07525 54.53958 53.30835 52.39497 51.32628
50.16073 49.03021 47.58811 46.31578
3620544.25 | 54.64808 53.09959 51.54470 50.51848 49.34876
48.22449 46.87672 45.81341 44.64574
3620526.21 | 52.90183 51.18478 49.78841 48.43083 47.13861
45.79805 44.61284 43.52390 42.68345

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▲ *** AERMOD - VERSION 22112 *** *** C:\Users\anoll\OneDrive -
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*** AERMET - VERSION 22112 *** ***
*** 13:53:14

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): STCK1 , STCK2
, STCK3 , L0000176 , L0000177 ,
L0000178 , L0000179 , L0000180 , L0000181 , L0000182
, L0000183 , L0000184 , L0000185 ,
L0000186 , L0000187 , L0000188 , L0000189 , L0000190
, L0000191 , L0000192 , L0000193 ,
L0000194 , L0000195 , L0000196 , L0000197 , L0000198
, L0000199 , L0000200 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

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

**

Y-COORD (METERS)			X-COORD (METERS)
	491555.00	491564.69	491574.38
3620887.01	16.49204	16.32727	16.23364
3620868.97	16.69191	16.43122	15.93318
3620850.93	17.79719	17.09001	16.41965
3620832.89	18.77287	18.15367	17.56780
3620814.85	19.94830	19.30191	18.75906
3620796.81	21.30172	20.59243	19.89618
3620778.77	22.59948	21.86989	21.09264
3620760.73	24.06270	23.29885	22.57177
3620742.69	25.94838	25.00072	24.24564
3620724.65	28.40910	27.27801	26.36136
3620706.61	31.04340	29.79509	28.87213
3620688.57	34.16722	32.98404	31.67727
3620670.53	38.22355	36.54267	35.08350
3620652.49	41.83437	40.32078	38.45868
3620634.45	45.15629	43.08446	41.20836
3620616.41	46.72360	45.02984	43.27900
3620598.37	47.08065	45.55440	44.01269
3620580.33	46.40991	45.30248	43.71044
3620562.29	45.19206	43.95126	42.74069
3620544.25	43.61672	42.37271	41.41336
3620526.21	41.85984	40.70260	39.76387

▲ *** AERMOD - VERSION 22112 *** C:\Users\anoll\OneDrive -
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*** AERMET - VERSION 22112 ***

13:53:14

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL

INCLUDING SOURCE(S): STCK1 , STCK2
 , STCK3 , L0000176 , L0000177 ,
 , L0000178 , L0000179 , L0000180 , L0000181 , L0000182
 , L0000183 , L0000184 , L0000185 ,
 , L0000186 , L0000187 , L0000188 , L0000189 , L0000190
 , L0000191 , L0000192 , L0000193 ,
 , L0000194 , L0000195 , L0000196 , L0000197 , L0000198
 , L0000199 , L0000200 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
490849.15	3620944.66	7.44215	490856.44
3620922.06	8.32150		
490865.91	3620906.03	9.25581	490894.34
3620928.62	8.49176		
490889.96	3620952.67	7.74778	490887.78
3620978.91	6.95457		
490903.08	3620989.11	6.72748	490912.56
3621005.88	6.36621		
490923.49	3621026.28	6.08483	490929.32
3621045.23	5.80537		
490936.61	3621068.55	5.56621	490956.29
3621064.18	5.84936		
490973.05	3621064.91	6.15126	490990.54
3621068.55	6.77217		
491008.03	3621067.10	7.64795	491066.34
3621081.67	12.51713		
491058.32	3621095.52	11.04376	491055.40
3621110.10	10.63909		
491055.40	3621126.86	10.24372	491059.78
3621142.16	10.27520		
491058.32	3621155.28	10.08716	491053.22
3621174.96	9.92173		
491214.28	3620900.93	247.96829	491182.95
3620912.59	248.05357		
491263.84	3620721.64	269.60597	491266.03
3620737.67	296.34350		

491266.03	3620752.25	349.51233	491266.76
3620767.55	410.47717		
491266.76	3620785.05	470.50583	491268.95
3620807.64	371.98482		
491271.13	3620838.25	184.76941	491219.39
3620910.40	220.19963		
491226.67	3620921.33	194.92526	491233.96
3620933.72	174.21825		
491254.37	3620925.71	162.56092	491266.76
3620924.25	152.87622		
491279.15	3620926.44	143.13443	491294.45
3620927.16	137.52539		
491189.51	3620924.98	227.39913	491197.52
3620935.91	209.26605		
491207.00	3620947.57	193.26229	491215.01
3620962.88	182.87240		
491223.03	3620973.81	173.92908	491229.59
3620985.47	167.41278		
491314.13	3620938.10	119.82993	491288.62
3620853.55	117.47535		
491301.74	3620860.84	93.93416	491317.05
3620868.86	76.13284		
491249.27	3620952.67	149.55995	491254.37
3620965.79	139.99277		
491274.78	3620954.13	130.16633	491286.44
3620965.06	118.20996		
491239.79	3621000.04	160.45709	491263.84
3620977.45	130.71726		
491270.40	3620988.38	123.89692	491295.18
3620974.54	109.54884		
491246.35	3621010.25	156.33341	491256.56
3621026.28	151.82395		
491263.11	3621035.76	147.63760	491271.13
3621048.88	142.94795		
491300.28	3621035.03	103.21419	491290.81
3621020.45	108.73713		
491284.98	3621008.79	112.09284	491278.42
3620998.59	117.76429		
491299.56	3620986.20	105.15434	491303.93
3620996.40	101.17674		
491313.40	3621010.98	93.59152	491319.96
3621018.99	88.23832		
491308.30	3620822.22	121.46873	491306.84
3620803.27	166.78421		
491308.30	3620783.59	223.03944	491307.57
3620766.83	249.07851		
491311.22	3620747.15	222.44501	491308.30
3620730.39	200.42634		
491344.74	3620729.66	151.00855	491343.28
3620746.42	157.87673		

491344.74	3620763.18	143.07741	491343.28
3620779.94	121.45729		
491344.74	3620799.62	92.19739	491346.20
3620815.66	76.75434		

*** AERMOD - VERSION 22112 *** *** C:\Users\anoll\OneDrive -
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*** AERMET - VERSION 22112 *** ***
 *** 13:53:14

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL

INCLUDING SOURCE(S): STCK1 , STCK2
 , STCK3 , L0000176 , L0000177 ,
 L0000178 , L0000179 , L0000180 , L0000181 , L0000182
 , L0000183 , L0000184 , L0000185 ,
 L0000186 , L0000187 , L0000188 , L0000189 , L0000190
 , L0000191 , L0000192 , L0000193 ,
 L0000194 , L0000195 , L0000196 , L0000197 , L0000198
 , L0000199 , L0000200 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		

491347.66	3620836.79	63.06324	491330.17
3620876.15	64.44315		
491327.38	3620952.58	104.74940	491338.31
3620938.00	106.46685		
491324.46	3620969.34	97.75277	491331.75
3620982.46	89.81948		
491338.31	3620994.12	83.01655	491345.60
3621010.89	76.14594		
491368.92	3620934.36	71.71262	491364.55
3620948.94	83.22961		
491365.28	3620961.33	82.40151	491363.09
3620975.90	79.45700		
491364.55	3620987.57	74.71923	491344.14
3620883.34	55.38644		
491363.09	3620884.07	46.96186	491362.01
3620545.80	89.08639		
491356.18	3620570.58	93.70210	491322.65

3620545.07	113.23602			
491347.43	3620535.60	94.50218		491265.80
3620676.27	207.58401			
491284.02	3620690.84	185.40140		491297.14
3620671.89	157.10943			
491373.28	3620591.53	85.04716		

▲ *** AERMOD - VERSION 22112 *** *** C:\Users\anol1\OneDrive -
Dudek\Desktop\HARP2\Fairmount Fire Station *** 01/24/24
*** AERMET - VERSION 22112 *** ***
*** 13:53:14

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL ADJ_U*

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

INCLUDING SOURCE(S): STCK3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

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

**

Y-COORD |			X-COORD (METERS)
(METERS) |			
491409.65	491380.58	491390.27	491399.96
	491419.34		

3620887.0 |	1083.72882 (21111224)	1000.82058 (21111224)	895.65394 (21111224)
903.96033 (21011605)	902.56869 (21011605)		
3620869.0 |	1048.49170 (21011605)	999.99619 (21011605)	933.34328 (21011605)
941.01468 (21022806)	939.88107 (21022806)		
3620850.9 |	1136.87119 (21022806)	1075.86628 (21022806)	1005.67515 (21022806)
932.26671 (21022806)	855.67295 (21022806)		
3620832.9 |	1069.72187 (21112702)	1041.56143 (21112702)	1011.28350 (21112702)
982.22974 (21112702)	950.31201 (21112702)		
3620814.9 |	1020.09233 (20100122)	951.93357 (20100122)	888.77188 (20100122)
857.15269 (19112202)	834.01400 (19112202)		
3620796.8 |	1117.18183 (21101704)	1060.08353 (21101704)	1009.72508 (21101704)
969.22181 (21101704)	931.42515 (21101704)		
3620778.8 |	1083.87958 (20100123)	1036.39055 (20100123)	993.14683 (20100123)
956.68824 (20100123)	921.15831 (20100123)		
3620760.7 |	1035.16727 (20021505)	979.08802 (20100101)	922.95482 (20100101)
868.89699 (20100101)	834.35267 (21042901)		
3620742.7 |	1054.18260 (19120602)	1002.85441 (19120602)	945.32008 (19120602)
890.82048 (20021505)	877.49821 (20021505)		
3620724.6 |	997.74453 (20033102)	935.62421 (21101604)	894.63703 (21101604)

878.53052 (19120602)	875.67611 (19120602)		
3620706.6 | 1009.67716 (21010606)	993.48436 (20033102)	962.92045 (20033102)	
913.39081 (20033102)	850.07016 (20033102)		
3620688.6 | 966.66571 (19120503)	956.86507 (19120503)	914.34731 (19120503)	
891.35130 (21010606)	866.80174 (20033102)		
3620670.5 | 917.23440 (20122103)	886.62001 (19111201)	872.72486 (19111201)	
861.30486 (19120503)	857.73891 (19120503)		
3620652.5 | 939.85692 (20101404)	897.02060 (20101404)	847.48481 (20122103)	
819.17079 (21011301)	802.91182 (19111201)		
3620634.5 | 889.80501 (20082224)	861.33431 (21032905)	861.35158 (20101404)	
832.33473 (20101404)	778.57503 (20122103)		
3620616.4 | 852.98315 (20012204)	803.84370 (20082224)	821.28238 (20082224)	
792.80546 (20082224)	791.74968 (20101404)		
3620598.4 | 836.64361 (20012204)	826.27674 (20012204)	772.11084 (20012204)	
747.41974 (20082224)	761.22254 (20082224)		
3620580.3 | 783.01955 (20112201)	789.73433 (21101703)	781.63848 (20012204)	
758.87637 (20012204)	703.86036 (20012204)		
3620562.3 | 763.15084 (20121403)	748.39335 (20121403)	745.12441 (21101703)	
736.03781 (21101703)	737.72052 (20012204)		
3620544.2 | 741.98149 (20091806)	730.72572 (20061103)	724.87026 (20121403)	
705.34542 (20112201)	713.37773 (21101703)		
3620526.2 715.72002 (21101402)	708.98819 (20091806)	692.48260 (20061103)	
692.01184 (20121403)	675.98804 (20121403)		

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: IDLE_TRU ***
 INCLUDING SOURCE(S): STCK3 ,

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

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

**

Y-COORD |			X-COORD (METERS)
(METERS) |			
491458.10	491429.03	491438.72	491448.41
	491467.79		

3620887.0 | 878.51230 (21011605)	836.17559 (21011605)	780.54320 (21011605)
766.91475 (21022806)	777.63476 (21022806)	
3620869.0 | 925.71499 (21022806)	900.32020 (21022806)	864.07357 (21022806)

820.98676 (21022806)	772.89794 (21022806)	
3620850.9 | 787.22601 (19112504)	771.60736 (19102923)	755.26924 (19102923)
747.04994 (21112702)	747.16538 (21112702)	
3620832.9 | 917.43506 (21112702)	883.05742 (21112702)	854.61979 (20100122)
828.83007 (20100122)	803.33635 (20100122)	
3620814.9 | 811.63299 (19112202)	791.02538 (19112202)	771.07420 (19112202)
752.68890 (19112202)	736.16991 (19112202)	
3620796.8 | 898.95003 (20121324)	869.12617 (20121324)	841.02340 (20121324)
814.52947 (20121324)	791.63128 (20121324)	
3620778.8 | 886.54990 (20100123)	854.12105 (20100123)	822.64556 (20100123)
793.70545 (21102822)	773.58162 (21102822)	
3620760.7 | 808.26076 (21042901)	780.09739 (21042901)	750.40419 (21042901)
721.09891 (20100123)	713.58836 (20100123)	
3620742.7 | 856.24883 (20021505)	829.40067 (20021505)	799.39883 (20100101)
774.40563 (20100101)	746.95942 (20100101)	
3620724.6 | 860.74202 (19120602)	836.33606 (19120602)	804.12358 (19120602)
764.10031 (19120602)	719.90557 (19120602)	
3620706.6 | 814.84953 (21011524)	788.04623 (21101604)	755.19858 (21101604)
725.62490 (19120602)	726.17887 (19120602)	
3620688.6 | 856.20291 (20033102)	828.97475 (20033102)	788.05753 (20033102)
742.11100 (20101722)	716.22393 (21011524)	
3620670.5 | 823.28402 (19120503)	790.51692 (21010606)	776.15475 (21010606)
754.86312 (20033102)	743.33063 (20033102)	
3620652.5 | 782.25013 (19111201)	770.21874 (19120503)	766.39837 (19120503)
740.70021 (19120503)	705.56051 (21010606)	
3620634.5 | 761.32692 (20122103)	734.55551 (21011301)	727.14777 (19111201)
708.40417 (19111201)	703.24536 (19120503)	
3620616.4 | 772.50288 (20101404)	724.42349 (20101404)	712.80460 (20122103)
695.75007 (21011301)	681.98235 (21111320)	
3620598.4 | 737.73246 (20082224)	735.36663 (20101404)	728.64811 (20101404)
695.90379 (20101404)	675.27013 (20122103)	
3620580.3 | 706.55482 (20082224)	721.42898 (20082224)	702.85393 (20082224)
695.61379 (21032905)	693.68011 (20101404)	
3620562.3 | 709.57841 (20012204)	652.32010 (20012204)	673.65537 (20082224)
686.54217 (20082224)	669.73608 (20082224)	
3620544.2 | 703.70122 (20012204)	698.01240 (20012204)	662.86125 (20012204)
625.98240 (21022206)	644.53429 (20082224)	
3620526.2 677.35178 (21101703)	673.27867 (21101703)	670.61497 (20012204)
657.85766 (20012204)	619.03564 (20012204)	

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

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

INCLUDING SOURCE(S): STCK3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

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

**

Y-COORD (METERS)	491477.48	491487.17	X-COORD (METERS)	491496.86
491506.55	491516.24			

3620887.0 |	783.42318 (21022806)	778.80934 (21022806)	766.09025 (21022806)	
747.09819 (21022806)	722.99263 (21022806)			
3620869.0 |	726.39545 (19112504)	691.25906 (19112504)	652.65303 (19112504)	
644.91828 (19102923)	643.38307 (19102923)			
3620850.9 |	749.67352 (21112702)	749.07552 (21112702)	745.64321 (21112702)	
738.89344 (21112702)	729.09854 (21112702)			
3620832.9 |	782.03186 (20100122)	761.63083 (20100122)	739.65812 (20100122)	
716.41051 (20100122)	692.94360 (20100122)			
3620814.9 |	724.84686 (19112202)	714.96780 (19112202)	704.57018 (19112202)	
694.47014 (19112202)	683.14060 (19112202)			
3620796.8 |	774.47875 (20121324)	760.46470 (20121324)	747.15061 (20121324)	
732.81424 (20121324)	719.15894 (20121324)			
3620778.8 |	758.87054 (21102822)	747.30253 (21102822)	735.83592 (21102822)	
723.58346 (21102822)	711.50174 (21102822)			
3620760.7 |	707.67206 (20100123)	705.39546 (20100123)	701.19337 (20100123)	
696.97062 (20100123)	691.92271 (20100123)			
3620742.7 |	720.75310 (20100101)	695.09458 (20100101)	667.27027 (20112205)	
654.81815 (20112205)	648.59616 (21042901)			
3620724.6 |	705.44734 (20021505)	703.10590 (20021505)	696.24389 (20021505)	
685.28953 (20021505)	670.71770 (20021505)			
3620706.6 |	722.21837 (19120602)	714.13299 (19120602)	700.32064 (19120602)	
680.04020 (19120602)	655.07896 (19120602)			
3620688.6 |	695.58779 (21101604)	680.64877 (21101604)	656.22549 (21101604)	
638.69126 (20082301)	640.93292 (20082301)			
3620670.5 |	724.42293 (20033102)	700.15789 (20101722)	675.88072 (20101722)	
655.91932 (21011524)	642.63419 (21011524)			
3620652.5 |	706.98013 (21010606)	694.14093 (21010606)	684.76314 (20033102)	
677.43718 (20033102)	660.57543 (20033102)			
3620634.5 |	707.03661 (19120503)	692.17666 (19120503)	660.99082 (19120503)	
656.68375 (21010606)	651.29696 (21010606)			
3620616.4 |	679.57524 (19111201)	659.17813 (19111201)	657.31116 (19120503)	
662.05254 (19120503)	650.76397 (19120503)			
3620598.4 |	664.88401 (20122103)	652.04068 (21011301)	643.89516 (19111201)	
640.00739 (19111201)	617.99958 (19111201)			
3620580.3 |	669.49226 (20101404)	639.22078 (20122103)	641.33418 (20122103)	
629.02092 (21011301)	617.33404 (21111320)			
3620562.3 |	662.44275 (21032905)	662.54093 (20101404)	645.98406 (20101404)	

610.06117 (20120705) 612.36722 (20122103)
3620544.2 | 656.45281 (20082224) 641.74926 (20082224) 634.65050 (21032905)
632.77198 (20101404) 620.54046 (20101404)
3620526.2 | 600.94581 (21022206) 616.83100 (20082224) 627.36255 (20082224)
613.25987 (20082224) 602.69884 (21032905)
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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL ADJ_U*
*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLE_TRU ***
INCLUDING SOURCE(S): STCK3 ,
*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

** CONC OF VARIOUS IN MICROGRAMS/M**3
**
Y-COORD | X-COORD (METERS)
(METERS) | 491525.93 491535.62 491545.31
491555.00 491564.69

3620887.0 | 693.61076 (21022806) 667.25687 (19112504) 644.06659 (19112504)
618.36561 (19112504) 593.44210 (19112504)
3620869.0 | 638.80140 (19102923) 631.53732 (19102923) 621.22579 (19102923)
608.94222 (19102923) 609.95111 (21112702)
3620850.9 | 717.28909 (21112702) 705.98097 (21112702) 693.74872 (21112702)
685.59766 (20100122) 676.55401 (20100122)
3620832.9 | 668.65982 (20100122) 645.26671 (20100122) 622.81947 (20100122)
600.65603 (20100122) 579.53362 (20100122)
3620814.9 | 672.89278 (19112202) 662.19607 (19112202) 651.61890 (19112202)
641.07537 (19112202) 633.38227 (19112202)
3620796.8 | 706.13291 (20121324) 692.91139 (20121324) 680.15708 (20121324)
667.66961 (20121324) 656.87898 (20121324)
3620778.8 | 699.59638 (21102822) 686.20286 (21102822) 673.07019 (21102822)
660.99140 (21102822) 650.52087 (21102822)
3620760.7 | 686.13709 (20100123) 678.85649 (20100123) 671.01841 (20100123)
663.49758 (20100123) 657.08956 (20100123)
3620742.7 | 639.74589 (21042901) 631.58634 (21042901) 621.71922 (21042901)
610.34988 (21042901) 598.43586 (21042901)
3620724.6 | 662.63414 (20100101) 654.80191 (20100101) 644.66775 (20100101)
632.51382 (20100101) 617.85674 (20100101)
3620706.6 | 634.96224 (20020724) 615.61267 (20020724) 610.33067 (20021505)

612.75036 (20021505)	613.77404 (20021505)	
3620688.6 | 638.97806 (19120602)	638.91888 (19120602)	634.24194 (19120602)
624.53811 (19120602)	613.64113 (19120602)	
3620670.5 | 629.16235 (21101604)	615.56216 (21101604)	594.60153 (21101604)
583.73138 (20082301)	594.00467 (20082301)	
3620652.5 | 644.45649 (20101722)	625.10652 (20101722)	606.61506 (21011524)
601.07316 (21011524)	590.51219 (21101604)	
3620634.5 | 633.97877 (21010606)	628.74513 (20033102)	621.09423 (20033102)
608.69498 (20101722)	603.21115 (20101722)	
3620616.4 | 625.14367 (19120503)	609.84619 (21010606)	610.91062 (21010606)
601.20040 (21010606)	583.67042 (21010606)	
3620598.4 | 618.21166 (19120503)	622.92865 (19120503)	613.70677 (19120503)
591.80234 (19120503)	566.35551 (21010606)	
3620580.3 | 610.67785 (19111201)	602.54161 (19111201)	578.92825 (19111201)
580.54020 (19120503)	585.98868 (19120503)	
3620562.3 | 602.15404 (20122103)	592.63680 (21011301)	583.83292 (21111320)
577.95198 (19111201)	566.87037 (19111201)	
3620544.2 | 590.49887 (20101404)	581.72885 (20122103)	579.78950 (20122103)
569.35870 (21011301)	557.63085 (21111320)	
3620526.2 598.43514 (20101404)	591.25270 (20101404)	567.61398 (20101404)
548.93678 (20122103)	554.75661 (20122103)	

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL ADJ_U*

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

INCLUDING SOURCE(S): STCK3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

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

**

Y-COORD (METERS)	X-COORD (METERS)
491574.38	

3620887.0 |	584.32561 (19102923)
3620869.0 |	617.53602 (21112702)
3620850.9 |	666.21637 (20100122)
3620832.9 |	562.50432 (20120224)
3620814.9 |	625.58174 (19112202)
3620796.8 |	646.92818 (20121324)

3620778.8	|	639.95652 (21102822)
3620760.7	|	650.06929 (20100123)
3620742.7	|	586.07978 (21042901)
3620724.6	|	601.01871 (20100101)
3620706.6	|	611.99970 (20021505)
3620688.6	|	606.19636 (20020724)
3620670.5	|	597.15158 (20082301)
3620652.5	|	586.27736 (21101604)
3620634.5	|	588.61226 (20101722)
3620616.4	|	580.17366 (20033102)
3620598.4	|	571.76499 (21010606)
3620580.3	|	579.14253 (19120503)
3620562.3		542.43161 (19111201)
3620544.2		551.64140 (21111320)
3620526.2		545.07728 (20122103)

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*** MODELOPTs: RegDFault CONC ELEV RURAL ADJ_U*

 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: IDLE_TRU ***
 INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		

490849.15	3620944.66	569.84972	(20020605)	490856.44
3620922.06	601.64088	(21021822)		
490865.91	3620906.03	668.51545	(20120301)	490894.34
3620928.62	642.20371	(19102904)		
490889.96	3620952.67	717.47681	(19102904)	490887.78
3620978.91	640.45402	(19123101)		
490903.08	3620989.11	650.16608	(21121205)	490912.56
3621005.88	517.14571	(20121423)		
490923.49	3621026.28	582.40170	(21011722)	490929.32
3621045.23	648.22214	(19012705)		
490936.61	3621068.55	590.13712	(21111301)	490956.29
3621064.18	601.91508	(21111301)		
490973.05	3621064.91	580.84324	(20111621)	490990.54

3621068.55	549.46260	(21122301)	
491008.03	3621067.10	583.36534	(20021601) 491066.34
3621081.67	625.47454	(21010802)	
491058.32	3621095.52	587.45278	(21010802) 491055.40
3621110.10	573.81735	(21010802)	
491055.40	3621126.86	537.45058	(21010802) 491059.78
3621142.16	449.00579	(21010802)	
491058.32	3621155.28	463.88980	(20120123) 491053.22
3621174.96	475.80490	(20120123)	
491214.28	3620900.93	1468.32303	(20042403) 491182.95
3620912.59	1269.28491	(20021402)	
491263.84	3620721.64	1747.00444	(21111805) 491266.03
3620737.67	1851.54253	(20012204)	
491266.03	3620752.25	1931.36441	(20101404) 491266.76
3620767.55	2052.58900	(20033102)	
491266.76	3620785.05	1935.52892	(20021505) 491268.95
3620807.64	1932.74589	(21112702)	
491271.13	3620838.25	1879.46498	(21120824) 491219.39
3620910.40	1456.17241	(21112304)	
491226.67	3620921.33	1380.47085	(21112304) 491233.96
3620933.72	1308.81096	(20010306)	
491254.37	3620925.71	1068.29469	(19112207) 491266.76
3620924.25	998.65901	(21030602)	
491279.15	3620926.44	1058.72304	(21030602) 491294.45
3620927.16	836.79680	(21030602)	
491189.51	3620924.98	1147.72001	(21011601) 491197.52
3620935.91	1044.77021	(20021105)	
491207.00	3620947.57	1217.82587	(20042403) 491215.01
3620962.88	1161.72573	(20042403)	
491223.03	3620973.81	1079.36454	(21112304) 491229.59
3620985.47	1088.52937	(21112304)	
491314.13	3620938.10	891.79243	(21112922) 491288.62
3620853.55	1665.73065	(21011804)	
491301.74	3620860.84	1530.44436	(21120824) 491317.05
3620868.86	1417.08987	(21120824)	
491249.27	3620952.67	996.18903	(20010306) 491254.37
3620965.79	928.00540	(21020704)	
491274.78	3620954.13	893.55066	(21010203) 491286.44
3620965.06	863.55220	(20101502)	
491239.79	3621000.04	1013.48155	(20010306) 491263.84
3620977.45	858.67156	(19112207)	
491270.40	3620988.38	854.82181	(19112207) 491295.18
3620974.54	867.06698	(21030602)	
491246.35	3621010.25	1001.04353	(20010306) 491256.56
3621026.28	913.59261	(20010306)	
491263.11	3621035.76	829.35685	(20010306) 491271.13
3621048.88	767.39102	(21020704)	
491300.28	3621035.03	732.49920	(21010203) 491290.81
3621020.45	787.27006	(19112207)	
491284.98	3621008.79	817.46916	(19112207) 491278.42

3620998.59	845.33961	(19112207)		
491299.56	3620986.20	820.79654	(20101502)	491303.93
3620996.40	793.85308	(20101502)		
491313.40	3621010.98	767.22236	(20101502)	491319.96
3621018.99	763.96252	(21030602)		
491308.30	3620822.22	1525.73597	(21022806)	491306.84
3620803.27	1649.84594	(19112202)		
491308.30	3620783.59	1580.90908	(20100123)	491307.57
3620766.83	1606.86976	(19120602)		
491311.22	3620747.15	1553.02333	(20033102)	491308.30
3620730.39	1372.40054	(19120503)		
491344.74	3620729.66	1232.32282	(20033102)	491343.28
3620746.42	1172.93288	(19120602)		
491344.74	3620763.18	1245.68765	(20021505)	491343.28
3620779.94	1271.01873	(20100123)		
491344.74	3620799.62	1326.20406	(20121324)	491346.20
3620815.66	1263.30374	(21112702)		

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: IDLE_TRU ***
 INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
491347.66	3620836.79	1284.50440	(21022806)	491330.17
3620876.15	1323.93143	(21120824)		
491327.38	3620952.58	852.23584	(21112922)	491338.31
3620938.00	928.01790	(21112922)		
491324.46	3620969.34	656.88322	(20042406)	491331.75
3620982.46	610.42651	(21030602)		
491338.31	3620994.12	593.09959	(21030602)	491345.60
3621010.89	600.56327	(21030602)		
491368.92	3620934.36	976.15117	(21011804)	491364.55
3620948.94	824.19508	(20112204)		
491365.28	3620961.33	766.88086	(21112922)	491363.09

3620975.90	847.20971	(21112922)		
491364.55	3620987.57	807.29636	(21112922)	491344.14
3620883.34	1245.83560	(21120824)		
491363.09	3620884.07	1161.54424	(21111224)	491362.01
3620545.80	749.72964	(20070524)		
491356.18	3620570.58	820.24923	(21101402)	491322.65
3620545.07	843.68740	(21102007)		
491347.43	3620535.60	758.32203	(21093002)	491265.80
3620676.27	1434.41926	(21093002)		
491284.02	3620690.84	1408.96973	(21111805)	491297.14
3620671.89	1259.00190	(21111805)		
491373.28	3620591.53	821.50030	(21101703)	

▲ *** AERMOD - VERSION 22112 *** *** C:\Users\anol1\OneDrive -
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

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

INCLUDING SOURCE(S): STCK1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

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

**

Y-COORD |			X-COORD (METERS)
(METERS) |	491380.58	491390.27	491399.96
491409.65	491419.34		

3620887.0 |	258.96991 (20121018)	255.06062 (19122918)	261.82077 (19122918)
251.14785 (19122918)	238.14996 (19122918)		
3620869.0 |	300.78435 (19121321)	308.45807 (20022223)	308.44301 (20022223)
303.51338 (20022223)	294.73809 (20022223)		
3620850.9 |	330.03527 (21011424)	333.50699 (21011424)	333.36699 (21122519)
324.42959 (21122519)	315.53990 (21020420)		
3620832.9 |	383.21733 (21021221)	386.27730 (20122506)	381.16559 (20122506)
367.30621 (20122506)	354.61910 (20122506)		
3620814.9 |	421.56816 (19012920)	407.15717 (19012920)	388.01819 (19012920)
370.13245 (19012920)	353.31077 (19012920)		
3620796.8 |	427.26726 (20020204)	403.17294 (20020204)	374.91752 (20020204)
355.07725 (21040101)	340.26973 (21101624)		
3620778.8 |	417.87636 (21120901)	393.19953 (20120901)	371.28103 (20120901)

359.37657 (20120702)	348.14251 (20120702)	
3620760.7 | 399.01210 (21021806)	376.38743 (21100401)	359.12637 (21121619)
343.84396 (21121619)	337.65678 (20020724)	
3620742.7 | 382.88199 (21010921)	376.97870 (20122524)	359.64395 (20122524)
338.34372 (20120618)	323.79081 (21101623)	
3620724.6 | 376.74805 (21011222)	364.15185 (20010702)	348.16382 (21011201)
334.07264 (21010921)	323.21225 (20122524)	
3620706.6 | 362.65719 (21120203)	347.86486 (21011807)	339.64572 (21011807)
327.75163 (21011222)	319.40091 (20010702)	
3620688.6 | 346.46319 (21022805)	336.30721 (20123104)	323.55872 (21120207)
317.78903 (21120203)	306.90075 (21011807)	
3620670.5 | 464.50176 (21022604)	396.88747 (21022604)	320.20599 (21022604)
304.19127 (20123104)	291.13465 (20123104)	
3620652.5 | 545.32967 (21022604)	507.51879 (21022604)	424.28005 (21022604)
364.41291 (21022604)	297.21791 (21022604)	
3620634.5 | 539.77215 (21070104)	522.28529 (21101903)	502.23967 (21022604)
465.37414 (21022604)	389.26731 (21022604)	
3620616.4 | 527.82007 (20090904)	510.17712 (20103123)	499.66548 (21070104)
485.34178 (21022604)	463.77382 (21022604)	
3620598.4 | 501.91004 (20103024)	496.48049 (20090904)	489.67755 (20090904)
478.14437 (21070104)	465.87071 (21101903)	
3620580.3 | 492.33917 (20091806)	477.60424 (20103024)	469.34660 (19101504)
466.95600 (20090904)	455.23508 (19090506)	
3620562.3 | 481.96877 (20091806)	471.55649 (20091806)	457.15947 (21061302)
449.03032 (20111105)	446.50118 (20090904)	
3620544.2 | 461.68692 (20070524)	460.24576 (20091806)	454.99580 (20091806)
441.48740 (21061302)	433.08169 (20103024)	
3620526.2 446.01433 (20070524)	441.58710 (20070524)	437.98165 (20091806)
437.24573 (20091806)	424.16433 (21061302)	

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: GENERATO ***
 INCLUDING SOURCE(S): STCK1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

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

**

Y-COORD			X-COORD (METERS)
(METERS)	491429.03	491438.72	491448.41
491458.10	491467.79		

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- - - - -
- - - - -
3620887.0 | 230.47093 (21012101) 233.21289 (19121321) 233.82107 (19121321)
233.70781 (20022223) 238.78724 (20022223)
3620869.0 | 281.10772 (20022223) 271.57937 (19120606) 264.40008 (19120606)
254.20496 (19120606) 248.43473 (21011424)
3620850.9 | 309.46356 (21020420) 299.85102 (21020420) 291.70117 (21020420)
283.42572 (21020420) 276.33072 (21020420)
3620832.9 | 341.43139 (20122506) 329.13022 (20122506) 316.87497 (19122207)
305.78759 (19122207) 295.43336 (19122207)
3620814.9 | 337.50393 (19012920) 323.30606 (19012920) 310.01674 (19012920)
298.07798 (19012920) 287.13597 (21112203)
3620796.8 | 330.54327 (21101624) 320.52969 (21101624) 311.41781 (20122102)
303.27773 (20122102) 294.98907 (20122102)
3620778.8 | 335.37343 (20120702) 321.57691 (20120702) 307.31644 (20120702)
295.33418 (20112205) 285.79995 (20112205)
3620760.7 | 328.29254 (20120901) 320.09323 (20120901) 309.35599 (20120901)
296.79802 (20120901) 283.02194 (20120901)
3620742.7 | 313.72587 (21100401) 301.46244 (21100401) 288.17952 (21121619)
282.32852 (20020724) 280.16457 (20020724)
3620724.6 | 318.32049 (20122524) 306.53142 (20122524) 289.61823 (20122524)
282.51505 (21011524) 272.41211 (21011524)
3620706.6 | 306.68103 (21011201) 298.64515 (21010921) 284.87396 (21010921)
279.72491 (20122524) 274.10028 (20122524)
3620688.6 | 299.23845 (21011807) 290.07832 (21011222) 283.81182 (20010702)
274.20511 (21011201) 266.40362 (21011201)
3620670.5 | 286.66301 (21120203) 281.57219 (21120203) 275.08024 (21011807)
267.37899 (21011807) 259.62061 (21011222)
3620652.5 | 276.59496 (21022805) 270.70130 (20123104) 261.93109 (21120207)
260.73280 (21120203) 252.64014 (21120203)
3620634.5 | 335.54618 (21022604) 276.30344 (21022604) 256.87352 (21022805)
250.73586 (20123104) 245.52824 (20011902)
3620616.4 | 394.59804 (21022604) 357.70542 (21022604) 310.08158 (21022604)
258.35150 (21022604) 238.96159 (21022805)
3620598.4 | 451.99674 (21022604) 430.22068 (21062705) 366.91715 (21022604)
334.12918 (21022604) 291.47170 (21022604)
3620580.3 | 450.35637 (21070104) 439.72597 (21101903) 428.52548 (21062705)
406.62845 (21062705) 345.50616 (21022604)
3620562.3 | 442.15526 (20090904) 435.21837 (21070104) 427.14617 (21101903)
417.87046 (21062705) 407.13443 (21062705)
3620544.2 | 429.58585 (19101504) 427.42658 (20090904) 419.65802 (19090506)
416.16326 (21070104) 408.37162 (21101903)
3620526.2 | 417.21563 (20103024) 410.63891 (20111105) 409.62665 (20090904)
406.17098 (20090904) 401.03895 (21070104)

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*** 13:53:14

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

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

INCLUDING SOURCE(S): STCK1 ,

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

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

**

Y-COORD |			X-COORD (METERS)
(METERS) |	491477.48	491487.17	491496.86
491506.55	491516.24		

3620887.0 |	239.09712 (20022223)	238.22604 (20022223)	235.67014 (19120606)
232.06906 (19120606)	224.41422 (19120606)		
3620869.0 |	245.37300 (21011424)	241.05857 (21011424)	235.73729 (21011424)
229.62599 (21011424)	228.20227 (20120224)		
3620850.9 |	267.97060 (21020420)	261.01712 (21020722)	255.29451 (21020722)
250.84725 (21020722)	247.25284 (21020722)		
3620832.9 |	285.74313 (19122207)	275.74935 (19122207)	267.24532 (19122207)
260.08198 (19122207)	253.25891 (19122207)		
3620814.9 |	277.74824 (21112203)	268.13718 (21112203)	259.57952 (21112203)
251.41963 (21112203)	245.10233 (21112203)		
3620796.8 |	286.68235 (20122102)	277.75437 (20122102)	268.49105 (20122102)
260.30478 (20122102)	252.30605 (20122102)		
3620778.8 |	276.76142 (21042901)	268.99550 (21042901)	260.43951 (21042901)
251.63721 (21042901)	242.64070 (21042901)		
3620760.7 |	277.46164 (20120702)	272.27999 (20120702)	265.81394 (20120702)
258.54338 (20120702)	250.53172 (20120702)		
3620742.7 |	275.56232 (20020724)	269.23832 (20020724)	261.46480 (20020724)
254.48214 (20120901)	247.73364 (20120901)		
3620724.6 |	259.56362 (21011524)	247.98110 (21100401)	244.51574 (20082301)
239.69404 (20082301)	237.95893 (20020724)		
3620706.6 |	263.80140 (20122524)	256.02000 (21011524)	250.82206 (21011524)
243.38297 (21011524)	234.02894 (21011524)		
3620688.6 |	258.51029 (21011623)	248.32171 (21011623)	243.21655 (20122524)
238.58978 (20122524)	230.61171 (20122524)		
3620670.5 |	254.24383 (20022802)	248.49179 (20022802)	242.09953 (21011201)
236.32243 (21011623)	229.38056 (21011623)		
3620652.5 |	248.08525 (21011807)	240.46504 (21011807)	234.53625 (21011222)
231.53262 (20120823)	227.70833 (20120823)		
3620634.5 |	239.26666 (21120203)	236.67177 (21120203)	227.78701 (21011807)
225.82586 (21011807)	219.87800 (20020101)		
3620616.4 |	233.33573 (21022805)	229.13206 (20011902)	224.76261 (20011902)

220.06091	(21120203)	215.67500	(21120203)		
3620598.4	|	244.87091	(21022604)	222.15698	(20020102) 219.00676 (21022805)
213.52518	(21022302)	211.84889	(20011902)		
3620580.3	|	314.56013	(21022604)	275.44492	(21022604) 232.75233 (21022604)
208.30571	(20020102)	205.78997	(21022805)		
3620562.3	|	384.86614	(21062705)	326.80395	(21022604) 297.57680 (21022604)
260.96606	(21022604)	221.39082	(21022604)		
3620544.2	|	400.73637	(21062705)	388.19945	(21062705) 366.17544 (21062705)
309.74139	(21022604)	281.59001	(21022604)		
3620526.2		396.47100	(21070104)	389.59753	(21101903) 383.46353 (21062705)
369.12935	(21062705)	346.29748	(21062705)		

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

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

INCLUDING SOURCE(S): STCK1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

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

**

Y-COORD			X-COORD (METERS)
(METERS)			
491555.00	491525.93	491535.62	491545.31
	491564.69		

3620887.0	|	216.56612	(19120606)	206.72753	(19120606)	197.01242	(19120606)
183.93986	(19120606)	159.16776	(19120606)				
3620869.0	|	225.96348	(20120224)	221.97519	(20120224)	217.86868	(20120224)
212.42118	(20120224)	197.56968	(20120224)				
3620850.9	|	243.18600	(21020722)	236.62070	(21020722)	229.51612	(21020722)
222.64359	(21020722)	218.29877	(21020722)				
3620832.9	|	247.36549	(19122207)	241.07084	(19122207)	234.57880	(19122207)
228.42106	(19122207)	222.08120	(19122207)				
3620814.9	|	238.40327	(21112203)	232.64788	(21112203)	227.11367	(21112203)
221.78789	(21112203)	214.67906	(21112203)				
3620796.8	|	244.51367	(20122102)	237.60737	(20122102)	230.92969	(20122102)
224.48100	(20122102)	217.02653	(20122102)				
3620778.8	|	234.63577	(21040101)	227.51776	(21040101)	222.72891	(20101723)
218.33256	(21101624)	213.20403	(20011804)				
3620760.7	|	241.98061	(20120702)	233.36256	(20120702)	225.66714	(20010802)

219.58105 (20112205)	213.17391 (20010802)	
3620742.7 | 239.56158 (20120901)	231.74795 (20120901)	226.77381 (20120702)
223.01786 (20120702)	217.81288 (20120702)	
3620724.6 | 235.76477 (20020724)	232.91999 (20020724)	228.40437 (20020724)
222.81087 (20120901)	218.79428 (20120901)	
3620706.6 | 223.25232 (21101604)	214.70790 (21101604)	212.39381 (20082301)
209.18352 (20082301)	205.97899 (21121619)	
3620688.6 | 227.84071 (21011524)	224.48828 (21011524)	219.36859 (21011524)
212.66475 (21011524)	203.43702 (21011524)	
3620670.5 | 219.79185 (21011623)	216.08438 (20122524)	213.42212 (20122524)
209.01914 (20122524)	204.88951 (20122524)	
3620652.5 | 220.67048 (21011201)	216.92855 (21011623)	212.42935 (21011623)
205.83566 (21011623)	199.27766 (20122524)	
3620634.5 | 212.96063 (21011222)	212.69413 (20120823)	209.95659 (20120823)
204.52302 (20120823)	199.94799 (21011623)	
3620616.4 | 209.96154 (20020101)	208.12448 (20020101)	202.75290 (20020101)
195.95261 (20120823)	196.64506 (20120823)	
3620598.4 | 205.80164 (20011902)	202.69364 (21120203)	198.32288 (21011024)
195.29807 (20020101)	192.95190 (20020101)	
3620580.3 | 201.51668 (21022302)	200.15423 (20011902)	196.44652 (20011902)
190.57598 (21011024)	188.84144 (20021701)	
3620562.3 | 196.56809 (20011520)	193.62445 (21022805)	190.39754 (21022302)
188.76031 (20011902)	186.58200 (20011902)	
3620544.2 | 247.38966 (21022604)	210.83681 (21022604)	187.24104 (20011520)
184.16016 (20011520)	179.53845 (21022302)	
3620526.2 292.42984 (21022604)	266.08654 (21022604)	234.46645 (21022604)
200.74589 (21022604)	177.92176 (20011520)	

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: GENERATO ***
 INCLUDING SOURCE(S): STCK1 ,

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

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

**

Y-COORD |	X-COORD (METERS)
(METERS) | 491574.38	

3620887.0	|	141.28565	(21011424)
3620869.0	|	182.81529	(21020420)
3620850.9	|	213.88876	(21020722)
3620832.9	|	216.01073	(19122207)
3620814.9	|	207.54011	(21112203)
3620796.8	|	208.97699	(20122102)
3620778.8	|	208.63827	(20011804)
3620760.7	|	210.44469	(20020204)
3620742.7	|	210.86104	(20120702)
3620724.6	|	212.80257	(20120901)
3620706.6	|	204.38881	(21121619)
3620688.6	|	199.58819	(21100401)
3620670.5	|	199.85231	(21011524)
3620652.5	|	200.22959	(20122524)
3620634.5	|	196.92802	(21011623)
3620616.4	|	194.82239	(20120823)
3620598.4	|	187.96916	(20020101)
3620580.3	|	184.52755	(20021701)
3620562.3		181.06999	(20011902)
3620544.2		177.46188	(21022302)
3620526.2		175.27280	(20011520)

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: GENERATO ***
 INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		

490849.15	3620944.66	211.32296	(20120301)	490856.44
3620922.06	219.80575	(19121905)		
490865.91	3620906.03	215.12271	(20121421)	490894.34
3620928.62	237.73467	(20120301)		
490889.96	3620952.67	221.82813	(21021822)	490887.78
3620978.91	224.99068	(21011806)		
490903.08	3620989.11	227.49879	(19123101)	490912.56

3621005.88	219.40780	(21121205)	
490923.49	3621026.28	194.81134	(21121205) 490929.32
3621045.23	201.46059	(21111301)	
490936.61	3621068.55	322.68062	(21111301) 490956.29
3621064.18	378.87722	(21111301)	
490973.05	3621064.91	418.99840	(21111301) 490990.54
3621068.55	429.57069	(20111621)	
491008.03	3621067.10	436.20437	(21122301) 491066.34
3621081.67	477.61077	(20111606)	
491058.32	3621095.52	425.06416	(21081024) 491055.40
3621110.10	403.76053	(20111606)	
491055.40	3621126.86	380.36518	(19022306) 491059.78
3621142.16	381.09598	(21092722)	
491058.32	3621155.28	383.60958	(21092722) 491053.22
3621174.96	391.86466	(21092722)	
491214.28	3620900.93	1124.53532	(21081708) 491182.95
3620912.59	862.42311	(21061808)	
491263.84	3620721.64	927.16101	(21102007) 491266.03
3620737.67	960.80278	(21101402)	
491266.03	3620752.25	1019.06821	(20061103) 491266.76
3620767.55	1021.18723	(20103123)	
491266.76	3620785.05	725.81524	(21022604) 491268.95
3620807.64	814.13685	(19122419)	
491271.13	3620838.25	755.85804	(21122818) 491219.39
3620910.40	1027.05661	(21081708)	
491226.67	3620921.33	889.11504	(19071308) 491233.96
3620933.72	804.23191	(19071308)	
491254.37	3620925.71	654.70231	(19081208) 491266.76
3620924.25	556.79733	(19081208)	
491279.15	3620926.44	497.30709	(21072408) 491294.45
3620927.16	438.68096	(19060807)	
491189.51	3620924.98	780.77749	(20051008) 491197.52
3620935.91	820.34832	(20101708)	
491207.00	3620947.57	817.72953	(21050607) 491215.01
3620962.88	726.88182	(20022808)	
491223.03	3620973.81	588.22246	(20042807) 491229.59
3620985.47	506.73443	(21081708)	
491314.13	3620938.10	376.42192	(21071107) 491288.62
3620853.55	559.41972	(20121017)	
491301.74	3620860.84	442.00331	(20011619) 491317.05
3620868.86	381.51312	(21031002)	
491249.27	3620952.67	574.95081	(21052807) 491254.37
3620965.79	517.62714	(21072307)	
491274.78	3620954.13	487.09133	(21080707) 491286.44
3620965.06	413.50086	(21080707)	
491239.79	3621000.04	503.47835	(21072507) 491263.84
3620977.45	471.52596	(20051607)	
491270.40	3620988.38	444.26747	(20051607) 491295.18
3620974.54	394.38161	(19020505)	
491246.35	3621010.25	493.21706	(19020118) 491256.56

3621026.28	523.14711	(20050903)		
491263.11	3621035.76	514.07926	(20050903)	491271.13
3621048.88	530.73633	(21111222)		
491300.28	3621035.03	499.75512	(19082703)	491290.81
3621020.45	484.53223	(19082703)		
491284.98	3621008.79	469.75993	(19082704)	491278.42
3620998.59	448.66346	(19082704)		
491299.56	3620986.20	415.99476	(20102221)	491303.93
3620996.40	439.03550	(21122420)		
491313.40	3621010.98	459.95951	(20102221)	491319.96
3621018.99	476.21213	(20102221)		
491308.30	3620822.22	485.87506	(20022302)	491306.84
3620803.27	485.64075	(20121720)		
491308.30	3620783.59	466.31412	(21010617)	491307.57
3620766.83	475.43625	(20120602)		
491311.22	3620747.15	558.32790	(21022604)	491308.30
3620730.39	784.33478	(21022604)		
491344.74	3620729.66	437.41351	(21120207)	491343.28
3620746.42	459.91358	(21011222)		
491344.74	3620763.18	483.23365	(19010803)	491343.28
3620779.94	496.99584	(21121619)		
491344.74	3620799.62	499.21446	(20010802)	491346.20
3620815.66	492.78638	(20010405)		

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: GENERATO ***
 INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
491347.66	3620836.79	402.09928	(21020420)	491330.17
3620876.15	348.89325	(21032304)		
491327.38	3620952.58	385.14668	(21011501)	491338.31
3620938.00	358.82773	(20062903)		
491324.46	3620969.34	407.01066	(21012102)	491331.75

3620982.46	444.59747	(21041101)		
491338.31	3620994.12	456.42969	(21041101)	491345.60
3621010.89	472.10270	(20011702)		
491368.92	3620934.36	408.44267	(20042901)	491364.55
3620948.94	402.22994	(21061224)		
491365.28	3620961.33	405.40236	(19101624)	491363.09
3620975.90	498.50646	(19082324)		
491364.55	3620987.57	510.00847	(21011501)	491344.14
3620883.34	308.79202	(21032304)		
491363.09	3620884.07	278.57836	(20121018)	491362.01
3620545.80	468.99984	(19110105)		
491356.18	3620570.58	506.14422	(20070524)	491322.65
3620545.07	538.56748	(20122108)		
491347.43	3620535.60	499.63019	(21102007)	491265.80
3620676.27	825.84211	(19110101)		
491284.02	3620690.84	780.31215	(19112404)	491297.14
3620671.89	723.20950	(20070524)		
491373.28	3620591.53	509.68855	(20091806)	

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: FUEL_TAN ***
 INCLUDING SOURCE(S): STCK2 ,

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

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

**

Y-COORD |			X-COORD (METERS)
(METERS) |			
491409.65	491380.58	491390.27	491399.96
	491419.34		

3620887.0 |	1175.93753 (19101402)	1079.31985 (19122918)	1067.82395 (19122918)
1037.04181	(19122918)	908.31968 (19122918)	
3620869.0 |	1183.11544 (19121321)	1070.80057 (20022223)	1022.54258 (20022223)
959.23790	(20022223)	886.69936 (20022223)	
3620850.9 |	1113.89262 (19012718)	1034.83355 (19012718)	959.55081 (19012718)
907.96188	(20121021)	860.89287 (20121021)	
3620832.9 |	1004.32566 (21111617)	939.36897 (21111617)	887.88212 (21111617)

876.66439 (21111617)	826.05582 (21111617)	
3620814.9 | 938.14000 (19122718)	971.82397 (20011318)	884.97318 (20011318)
829.26665 (20011318)	784.89278 (19122718)	
3620796.8 | 924.29546 (21021219)	874.25296 (21031507)	864.08007 (21031507)
829.35977 (21031507)	788.15480 (21031507)	
3620778.8 | 995.57551 (20103117)	891.58615 (20103117)	803.47668 (19022619)
751.86443 (19072806)	735.41096 (20012420)	
3620760.7 | 860.17386 (19100819)	815.59165 (20043020)	783.02869 (20110517)
733.67004 (20021118)	727.10091 (20122620)	
3620742.7 | 918.48029 (20122308)	836.91889 (20122308)	760.34920 (21122220)
740.36445 (21122220)	675.47593 (21122220)	
3620724.6 | 833.09844 (20013019)	798.67841 (19120708)	813.59714 (19120708)
759.11100 (19120708)	728.74310 (20122308)	
3620706.6 | 820.00669 (21013008)	819.60012 (21013008)	731.24640 (21123104)
705.97357 (20013019)	681.91616 (20010701)	
3620688.6 | 819.79513 (20020108)	749.97678 (19121722)	726.50920 (20020819)
724.55231 (21013008)	696.84576 (21013008)	
3620670.5 | 780.15054 (19121708)	760.23256 (20020108)	744.60857 (20020108)
688.30418 (19121722)	657.80440 (20122501)	
3620652.5 | 721.74274 (19011919)	680.19132 (19022521)	702.73653 (19121708)
677.16508 (20020108)	675.15113 (20020108)	
3620634.5 | 685.16314 (20013018)	660.81338 (19011919)	644.10566 (19011919)
621.13616 (19022521)	635.25312 (19121708)	
3620616.4 | 643.45933 (20010219)	639.19457 (20022023)	625.94546 (20013018)
611.76053 (19011919)	583.62400 (20010218)	
3620598.4 | 640.52923 (20091806)	604.57632 (20021923)	594.55844 (19121624)
585.44043 (20121508)	557.51334 (20013018)	
3620580.3 | 917.74720 (20091806)	804.98858 (20091806)	570.72318 (20021923)
554.91909 (20010219)	549.70040 (20121508)	
3620562.3 | 970.22731 (21101402)	891.21237 (20091806)	802.31872 (20091806)
543.63807 (20010708)	516.50906 (20010219)	
3620544.2 | 940.42504 (21101402)	943.69248 (21101402)	876.27866 (21101402)
804.26869 (20091806)	542.08658 (20091806)	
3620526.2 832.27547 (20070524)	893.80369 (21101402)	908.46248 (21101402)
857.93325 (21101402)	796.45883 (20091806)	

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL ADJ_U*

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

INCLUDING SOURCE(S): STCK2 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

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

**

Y-COORD (METERS)				X-COORD (METERS)
	491429.03		491438.72	491448.41
491458.10		491467.79		

3620887.0 |	843.50783 (19121321)	840.59399 (19121321)	794.11782 (19121321)	
756.74670 (19121321)	717.18676 (20022223)			
3620869.0 |	820.21043 (20050706)	787.08369 (20050706)	747.18876 (20050706)	
727.55922 (21011424)	713.36453 (21011424)			
3620850.9 |	890.85203 (20121021)	847.47078 (20121021)	801.79234 (20121021)	
756.50876 (20121021)	722.92179 (19021219)			
3620832.9 |	782.68073 (21111617)	743.00552 (21111617)	708.92489 (21111617)	
677.23399 (21111617)	647.85171 (19042104)			
3620814.9 |	743.49194 (19122718)	706.48160 (19122718)	671.61401 (19122718)	
640.48126 (19122718)	611.10584 (19122718)			
3620796.8 |	744.87374 (21031507)	699.16398 (21031507)	652.52943 (21031507)	
606.11555 (21031507)	599.78235 (19120320)			
3620778.8 |	711.60458 (20012420)	677.29866 (20012420)	633.93545 (20012420)	
602.58243 (21021219)	585.17562 (21021219)			
3620760.7 |	717.43602 (20103117)	692.00794 (20103117)	647.61612 (20103117)	
605.54840 (19022619)	563.73881 (19022619)			
3620742.7 |	636.70818 (20043020)	623.46903 (20043020)	604.35218 (20110517)	
572.49572 (20110517)	565.95039 (20122620)			
3620724.6 |	669.32064 (20122308)	623.90299 (20121118)	615.80091 (21122220)	
571.42998 (21122220)	525.80777 (19100819)			
3620706.6 |	697.32590 (19120708)	673.77217 (19120708)	633.70121 (20122308)	
604.80450 (20122308)	544.90251 (20122308)			
3620688.6 |	631.87696 (20121023)	614.49531 (20013019)	600.79911 (20010701)	
595.35594 (19120708)	586.97537 (19120708)			
3620670.5 |	638.85459 (21020618)	635.89152 (21013008)	588.72766 (20121023)	
539.29448 (21123104)	531.68970 (20013019)			
3620652.5 |	620.89319 (19121722)	591.71109 (20122501)	573.30565 (20020819)	
554.12207 (21020618)	546.93797 (21013008)			
3620634.5 |	605.53780 (20020108)	609.07158 (20020108)	556.67117 (20021219)	
537.01956 (19121722)	512.98622 (20020819)			
3620616.4 |	563.37651 (19022521)	572.41307 (19121708)	544.16253 (19121708)	
550.47315 (20020108)	510.93354 (20020108)			
3620598.4 |	557.88431 (19011919)	527.36802 (20010218)	507.25644 (20020121)	
521.66606 (19121708)	496.51400 (19121708)			
3620580.3 |	533.23411 (20013018)	506.05598 (19011919)	506.32371 (19011919)	
479.18423 (19022521)	464.78990 (20020121)			
3620562.3 |	512.35129 (21032807)	503.52699 (20121508)	482.37114 (20013018)	
470.62526 (19011919)	456.00558 (19011919)			
3620544.2 |	487.43230 (20021923)	472.60252 (21032807)	465.35770 (20121508)	
452.50119 (20121508)	433.33993 (20013018)			
3620526.2	696.15687 (20091806)	459.05230 (20091806)	433.66828 (20010219)	

435.61935 (21032807) 427.60850 (20121508)
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*
*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: FUEL_TAN ***
INCLUDING SOURCE(S): STCK2 ,
*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

*** CONC OF VARIOUS IN MICROGRAMS/M***
**

Y-COORD (METERS)			X-COORD (METERS)
491506.55	491477.48	491487.17	491496.86
491516.24			

3620887.0	695.12411 (20022223)	661.44617 (20022223)	626.39096 (20022223)
594.39942 (20022223)	565.90455 (20022223)		
3620869.0	694.55440 (21011424)	672.21537 (21011424)	647.28732 (21011424)
620.56782 (21011424)	590.53664 (21011424)		
3620850.9	692.51169 (19021219)	662.68546 (19021219)	633.03937 (19021219)
601.55453 (19021219)	568.76379 (19021219)		
3620832.9	623.59807 (19042104)	602.70882 (19042104)	581.46860 (19042104)
559.99533 (19042104)	539.91236 (19042104)		
3620814.9	584.23340 (20110706)	572.18587 (20110706)	557.44269 (20110706)
543.07172 (20110706)	524.89877 (20110706)		
3620796.8	590.74516 (19120320)	583.13949 (19120320)	573.58714 (19120320)
559.09670 (19120320)	543.47860 (19120320)		
3620778.8	562.07041 (21021219)	538.78441 (21021219)	531.21737 (21031507)
524.76892 (21031507)	514.59047 (21031507)		
3620760.7	533.49366 (19072806)	527.19076 (20012420)	525.10418 (20012420)
516.38390 (20012420)	500.80697 (20012420)		
3620742.7	554.04873 (20122620)	548.40218 (20103117)	533.65408 (20103117)
507.53106 (20103117)	489.54196 (19022619)		
3620724.6	509.57684 (20043020)	497.32807 (20043020)	482.80315 (20110517)
463.21648 (20110517)	453.70502 (20122620)		
3620706.6	517.57196 (20121118)	512.30137 (21122220)	486.52541 (21122220)
452.12871 (19100819)	423.34414 (21080723)		
3620688.6	542.28319 (19120708)	526.48112 (20122308)	499.95711 (20122308)
452.49443 (20122308)	443.23953 (20121118)		
3620670.5	517.54278 (20010701)	508.83568 (19120708)	514.52962 (19120708)

489.90781 (19120708)	458.74739 (20122308)		
3620652.5 | 510.22515 (21123104)	470.95011 (20013019)	469.84951 (20013019)	
459.55245 (20010701)	441.68410 (19120708)		
3620634.5 | 501.19560 (21020618)	494.36269 (21013008)	477.22041 (21013008)	
451.77506 (20121023)	420.15748 (20013019)		
3620616.4 | 492.62387 (19121722)	468.59455 (20122501)	459.08817 (20020819)	
448.94951 (21020618)	443.03987 (21013008)		
3620598.4 | 503.41987 (20020108)	478.09413 (20020108)	453.79227 (19121722)	
433.10432 (20122501)	422.39449 (20020819)		
3620580.3 | 479.00223 (19121708)	459.98097 (19121708)	468.60639 (20020108)	
450.17816 (20020108)	417.39801 (19121722)		
3620562.3 | 441.18527 (19022521)	430.13503 (20020121)	446.64052 (19121708)	
428.89945 (19121708)	432.20740 (20020108)		
3620544.2 | 437.67712 (19011919)	423.69050 (20012808)	414.03279 (19022521)	
401.73696 (19121708)	413.98016 (19121708)		
3620526.2 415.64939 (20013018)	394.08362 (19011919)	402.74362 (19011919)	
388.43216 (20012808)	374.31834 (19022521)		

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: FUEL_TAN ***
 INCLUDING SOURCE(S): STCK2 ,

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

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

Y-COORD |			X-COORD (METERS)
(METERS) |			
491555.00	491525.93	491535.62	491545.31
	491564.69		

3620887.0 | 535.03153 (20050706)	526.43082 (20050706)	511.17818 (20050706)
501.86341 (20050706)	508.04294 (20050706)	
3620869.0 | 560.77319 (21011424)	538.48353 (19012718)	519.78155 (19012718)
508.53017 (20121021)	508.29426 (20121021)	
3620850.9 | 537.74589 (19021219)	515.90932 (19021219)	497.37504 (19021219)
479.56645 (19021219)	461.62833 (21031322)	
3620832.9 | 519.42159 (19042104)	501.26745 (19042104)	486.12757 (19042104)
471.87449 (19042104)	460.24011 (19042104)	
3620814.9 | 509.57899 (20110706)	493.50609 (21021220)	478.35771 (21021220)

463.85680 (21021220)	458.66700 (21021220)	
3620796.8 | 525.95508 (19120320)	506.82552 (19120320)	491.73216 (20011318)
479.96397 (20011318)	471.45404 (20011318)	
3620778.8 | 501.51601 (21031507)	484.38495 (21031507)	465.76665 (21031507)
447.07880 (21031507)	437.44017 (21031506)	
3620760.7 | 479.72768 (20012420)	453.20369 (20012420)	435.36897 (21021219)
428.13166 (21021219)	419.20948 (19080706)	
3620742.7 | 468.50250 (19022619)	445.83442 (19022619)	427.21924 (19042501)
425.45153 (19042501)	419.56879 (20012420)	
3620724.6 | 455.71538 (20122620)	453.50223 (20122620)	442.31327 (20122620)
435.98897 (20103117)	429.73312 (19022619)	
3620706.6 | 420.81383 (20043020)	415.25864 (20043020)	408.84723 (21012306)
404.26371 (21012306)	407.51052 (19121319)	
3620688.6 | 435.33913 (21122220)	422.28831 (21122220)	398.44811 (19100819)
383.24500 (19100819)	378.44144 (21080723)	
3620670.5 | 450.82444 (20122308)	427.27833 (20122308)	400.09052 (20121118)
397.58597 (20121118)	395.25389 (21122220)	
3620652.5 | 451.88915 (19120708)	441.58365 (19120708)	411.99878 (19120708)
409.41223 (20122308)	405.47192 (20122308)	
3620634.5 | 417.25183 (20013019)	410.64884 (20010701)	392.36700 (20010701)
403.73733 (19120708)	404.92132 (19120708)	
3620616.4 | 419.26086 (21013008)	399.87938 (20121023)	378.26377 (20013019)
375.73139 (20013019)	375.37733 (20010701)	
3620598.4 | 411.62909 (21020618)	402.01105 (21013008)	397.01366 (21013008)
376.47494 (20121023)	357.89946 (20121023)	
3620580.3 | 402.02165 (19121722)	386.25047 (20122501)	379.00703 (20020819)
370.18282 (21020618)	366.58910 (21013008)	
3620562.3 | 418.87035 (20020108)	381.96762 (20021219)	373.41519 (19121722)
358.16922 (20122501)	349.13735 (20020819)	
3620544.2 | 397.00187 (19121708)	398.92096 (20020108)	388.09175 (20020108)
357.72395 (20020108)	345.92749 (19121722)	
3620526.2 365.84329 (19121708)	376.49471 (19121708)	362.56116 (19121708)
364.50903 (20020108)	359.16436 (20020108)	

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: FUEL_TAN ***
 INCLUDING SOURCE(S): STCK2 ,

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

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

**

Y-COORD (METERS)	X-COORD (METERS)
3620887.0	536.76929 (19070201)
3620869.0	488.68713 (21060306)
3620850.9	447.82063 (21031322)
3620832.9	448.98832 (19042104)
3620814.9	453.48344 (21021220)
3620796.8	464.21127 (20011318)
3620778.8	430.28273 (21031506)
3620760.7	410.71246 (21041701)
3620742.7	420.20293 (20012420)
3620724.6	429.98947 (19022619)
3620706.6	416.25491 (20122620)
3620688.6	386.07349 (20040701)
3620670.5	391.79260 (20020619)
3620652.5	387.73752 (20122308)
3620634.5	389.08718 (19120708)
3620616.4	363.26729 (20010701)
3620598.4	343.94838 (20013019)
3620580.3	356.08373 (21013008)
3620562.3	337.97047 (21020618)
3620544.2	329.14750 (20122501)
3620526.2	335.26390 (20020108)

*** AERMOD - VERSION 22112 *** C:\Users\anoll\OneDrive -
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 *** AERMET - VERSION 22112 ***
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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: FUEL_TAN ***
 INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
490849.15	3620944.66	396.79105	(19021106)	490856.44

3620922.06	412.01642	(20011203)		
490865.91	3620906.03	451.25729	(19011308)	490894.34
3620928.62	449.16904	(19011405)		
490889.96	3620952.67	434.37339	(20011302)	490887.78
3620978.91	414.77351	(19011320)		
490903.08	3620989.11	402.68944	(19122304)	490912.56
3621005.88	401.10169	(19122903)		
490923.49	3621026.28	381.46790	(20012408)	490929.32
3621045.23	366.02808	(19022303)		
490936.61	3621068.55	358.16584	(21022220)	490956.29
3621064.18	347.51829	(19011704)		
490973.05	3621064.91	361.21441	(20021001)	490990.54
3621068.55	351.73727	(19020322)		
491008.03	3621067.10	403.61343	(19020408)	491066.34
3621081.67	1058.65391	(20111606)		
491058.32	3621095.52	985.98362	(20111606)	491055.40
3621110.10	1001.71381	(20111606)		
491055.40	3621126.86	978.39179	(19022306)	491059.78
3621142.16	1036.17225	(21010802)		
491058.32	3621155.28	999.55810	(21010802)	491053.22
3621174.96	1069.38679	(21092722)		
491214.28	3620900.93	3309.19974	(21112304)	491182.95
3620912.59	7144.94837	(20120123)		
491263.84	3620721.64	2219.33693	(21093002)	491266.03
3620737.67	2096.29150	(21101402)		
491266.03	3620752.25	2234.01129	(21101402)	491266.76
3620767.55	2608.93614	(21061906)		
491266.76	3620785.05	3284.84954	(20020108)	491268.95
3620807.64	3457.10238	(21092807)		
491271.13	3620838.25	3637.55627	(20050706)	491219.39
3620910.40	3205.31499	(21112304)		
491226.67	3620921.33	3024.32626	(20010306)	491233.96
3620933.72	2596.04476	(20010306)		
491254.37	3620925.71	1815.52864	(19112207)	491266.76
3620924.25	1843.62562	(21030602)		
491279.15	3620926.44	1835.03752	(21030602)	491294.45
3620927.16	1778.54204	(20050324)		
491189.51	3620924.98	6979.27845	(21071301)	491197.52
3620935.91	2531.46038	(21071301)		
491207.00	3620947.57	2517.30732	(20042403)	491215.01
3620962.88	2050.99992	(20042403)		
491223.03	3620973.81	2297.09812	(21112304)	491229.59
3620985.47	2302.78949	(21112304)		
491314.13	3620938.10	3739.39779	(20112204)	491288.62
3620853.55	2681.14301	(21120208)		
491301.74	3620860.84	2395.52049	(21120208)	491317.05
3620868.86	1947.26439	(21120208)		
491249.27	3620952.67	1548.77047	(19112207)	491254.37
3620965.79	1493.70497	(19112207)		
491274.78	3620954.13	1353.46827	(20101502)	491286.44

3620965.06	1514.45264	(21030602)		
491239.79	3621000.04	2191.15314	(20010306)	491263.84
3620977.45	1559.10294	(19112207)		
491270.40	3620988.38	1529.64387	(19112207)	491295.18
3620974.54	1553.83063	(21030602)		
491246.35	3621010.25	2056.43560	(20010306)	491256.56
3621026.28	1607.40868	(20010306)		
491263.11	3621035.76	1328.86285	(21020704)	491271.13
3621048.88	1183.03977	(21020704)		
491300.28	3621035.03	1210.24197	(21010203)	491290.81
3621020.45	1299.39575	(19112207)		
491284.98	3621008.79	1375.23459	(19112207)	491278.42
3620998.59	1464.14092	(19112207)		
491299.56	3620986.20	1452.05169	(21030602)	491303.93
3620996.40	1376.25669	(21030602)		
491313.40	3621010.98	1351.54092	(21030602)	491319.96
3621018.99	1358.00022	(21030602)		
491308.30	3620822.22	2043.25503	(20011318)	491306.84
3620803.27	2022.43555	(19022619)		
491308.30	3620783.59	1857.47104	(20122308)	491307.57
3620766.83	1695.18062	(21013008)		
491311.22	3620747.15	1475.77011	(20020108)	491308.30
3620730.39	1285.99124	(19011919)		
491344.74	3620729.66	1014.13717	(20020819)	491343.28
3620746.42	1099.11306	(20013019)		
491344.74	3620763.18	1236.19680	(20122308)	491343.28
3620779.94	1235.21877	(20110517)		
491344.74	3620799.62	1327.62811	(20012420)	491346.20
3620815.66	1381.07483	(19120320)		

*** AERMOD - VERSION 22112 *** C:\Users\anol1\OneDrive -
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: FUEL_TAN ***
 INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		

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- - - - -
      491347.66   3620836.79   1326.63438   (21031322)   491330.17
3620876.15      1604.73996   (20051401)
      491327.38   3620952.58   3120.02658   (20112204)   491338.31
3620938.00      5772.22697   (20112301)
      491324.46   3620969.34   1009.29007   (20042406)   491331.75
3620982.46      924.56394   (20042406)
      491338.31   3620994.12   848.72775   (20042406)   491345.60
3621010.89      760.60762   (21030602)
      491368.92   3620934.36   5040.31093   (20100201)   491364.55
3620948.94      5761.31081   (21011804)
      491365.28   3620961.33   4744.59622   (20112301)   491363.09
3620975.90      4406.78304   (20112204)
      491364.55   3620987.57   2972.67877   (20112204)   491344.14
3620883.34      1422.59575   (20041724)
      491363.09   3620884.07   1327.40602   (21120208)   491362.01
3620545.80      947.48605   (21093002)
      491356.18   3620570.58   941.73033   (21101402)   491322.65
3620545.07      1062.87043   (21112801)
      491347.43   3620535.60   1051.19849   (21093002)   491265.80
3620676.27      1653.14999   (21111406)
      491284.02   3620690.84   1722.53862   (21093002)   491297.14
3620671.89      1485.25978   (21093002)
      491373.28   3620591.53   945.81878   (20091806)

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^ *** AERMOD - VERSION 22112 *** *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Fairmount Fire Station *** 01/24/24
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCKS ***
      INCLUDING SOURCE(S):      L0000176      , L0000177
, L0000178      , L0000179      , L0000180      ,
      L0000181      , L0000182      , L0000183      , L0000184      , L0000185
, L0000186      , L0000187      , L0000188      ,
      L0000189      , L0000190      , L0000191      , L0000192      , L0000193
, L0000194      , L0000195      , L0000196      ,
      L0000197      , L0000198      , L0000199      , L0000200      , L0000201
, L0000202      , L0000203      , . . .      ,

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*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

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

**

Y-COORD (METERS)				X-COORD (METERS)
	491380.58		491390.27	491399.96
491409.65		491419.34		

3620887.0 |	320.38701 (21110623)	301.46430 (19010705)	298.68235 (21122302)	
284.72761 (21122302)	261.32069 (19120806)			
3620869.0 |	322.12442 (21122302)	297.98102 (21122302)	270.30303 (19120806)	
255.08732 (20100201)	248.81035 (20120918)			
3620850.9 |	299.66078 (21112303)	277.85276 (20100201)	270.40389 (20120918)	
257.55150 (20120918)	238.40359 (21011522)			
3620832.9 |	288.23384 (20120918)	260.61429 (20120918)	245.45076 (21011522)	
230.42032 (21011522)	215.72092 (21011206)			
3620814.9 |	262.01924 (20101502)	248.90825 (20100124)	234.92512 (20100124)	
221.70607 (19120803)	208.25961 (19120803)			
3620796.8 |	259.12571 (20100124)	243.76468 (20100124)	227.41637 (19120803)	
213.83364 (19120803)	196.30572 (19120803)			
3620778.8 |	255.49157 (20100124)	236.64874 (20100124)	220.98890 (19120803)	
202.71421 (19120803)	196.81084 (20042406)			
3620760.7 |	249.34283 (20100124)	231.17223 (19120803)	210.76184 (19120803)	
204.20277 (20042406)	198.47050 (20042406)			
3620742.7 |	242.96539 (19120803)	220.87954 (20042406)	213.12755 (20042406)	
206.51033 (20042406)	199.90813 (20042406)			
3620724.6 |	233.01949 (20042406)	224.08751 (20042406)	215.50276 (20042406)	
208.64334 (19120706)	202.30227 (19120706)			
3620706.6 |	236.72153 (19120706)	227.78166 (19120706)	219.74272 (19120706)	
211.81927 (19120706)	203.52210 (19120706)			
3620688.6 |	240.28312 (19120706)	230.92359 (19120706)	221.94530 (19120706)	
212.12565 (19120706)	201.07539 (19120706)			
3620670.5 |	242.32203 (19120706)	231.75373 (19120706)	220.29195 (19120706)	
206.87757 (19120706)	194.74227 (21120206)			
3620652.5 |	241.41368 (19120706)	227.84246 (19120706)	212.07166 (21120206)	
201.73741 (19120806)	194.99839 (19120806)			
3620634.5 |	235.10350 (19120706)	217.87187 (19120806)	209.78188 (19120806)	
202.17239 (19120806)	194.82512 (19120806)			
3620616.4 |	227.26268 (19120806)	218.07885 (19120806)	209.30922 (19120806)	
200.75676 (19120806)	193.14556 (20120918)			
3620598.4 |	228.98260 (20122524)	220.08709 (20122524)	209.98592 (20122524)	
201.50499 (20120618)	192.84626 (20120618)			
3620580.3 |	255.15956 (20120608)	237.47050 (20120608)	222.14699 (21011201)	
212.77276 (20122524)	205.11119 (20122524)			
3620562.3 |	266.41438 (20120608)	258.29640 (20120608)	246.83671 (20120608)	
232.67497 (20120608)	216.79020 (20120608)			
3620544.2 |	266.44599 (20120124)	253.69541 (20120124)	245.68983 (20120608)	
240.70060 (20120608)	233.51905 (20120608)			
3620526.2	267.40846 (20021621)	254.46160 (20011520)	242.05758 (21022302)	
234.16842 (20120124)	223.31265 (20120124)			

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCKS ***
INCLUDING SOURCE(S): L0000176 , L0000177
, L0000178 , L0000179 , L0000180 ,
L0000181 , L0000182 , L0000183 , L0000184 , L0000185
, L0000186 , L0000187 , L0000188 ,
L0000189 , L0000190 , L0000191 , L0000192 , L0000193
, L0000194 , L0000195 , L0000196 ,
L0000197 , L0000198 , L0000199 , L0000200 , L0000201
, L0000202 , L0000203 , . . . ,

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

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

**

Y-COORD |			X-COORD (METERS)
(METERS) |	491429.03	491438.72	491448.41
491458.10	491467.79		

3620887.0 | 246.36173 (21112303) 236.21967 (20120918) 233.34148 (20120918)
226.46541 (20120918) 214.51511 (20120918)
3620869.0 | 244.36390 (20120918) 233.87866 (20120918) 219.38979 (21011522)
215.03216 (21011522) 206.04094 (21011522)
3620850.9 | 233.45589 (21011522) 222.89971 (21011522) 207.66800 (21011522)
203.53064 (21011206) 198.50010 (21011206)
3620832.9 | 213.48674 (21011206) 206.77178 (21011206) 197.59801 (21011206)
186.39575 (21011206) 184.41465 (21011605)
3620814.9 | 193.08625 (20042406) 189.44428 (20042406) 185.13484 (20042406)
180.51054 (20042406) 175.55181 (19120706)
3620796.8 | 192.24750 (20042406) 187.94720 (20042406) 183.10687 (20042406)
177.58627 (20042406) 173.78038 (19120706)
3620778.8 | 191.78001 (20042406) 186.75638 (20042406) 181.01444 (19120706)
176.32875 (19120706) 171.57389 (19120706)
3620760.7 | 192.37681 (20042406) 186.19407 (19120706) 181.00164 (19120706)
175.30704 (19120706) 168.72300 (19120706)
3620742.7 | 193.91669 (19120706) 187.84627 (19120706) 181.17192 (19120706)
173.09626 (19120706) 166.31070 (21120206)
3620724.6 | 195.24428 (19120706) 187.39260 (19120706) 178.83001 (21120206)
170.59653 (21120206) 160.35716 (21120206)
3620706.6 | 194.17150 (19120706) 184.78328 (21120206) 175.19728 (21120206)

166.97439 (19010705)	162.01564 (19010705)		
3620688.6 | 190.35355 (21120206)	179.74628 (19010705)	174.63753 (19010705)	
169.26858 (19010705)	164.04593 (19010705)		
3620670.5 | 187.62053 (19010705)	181.74162 (19010705)	175.90608 (19010705)	
170.23021 (19010705)	163.96431 (19010705)		
3620652.5 | 188.36632 (19120806)	181.90721 (19010705)	175.23066 (19010705)	
169.09281 (20120918)	164.29075 (20120918)		
3620634.5 | 187.40070 (19120806)	181.07078 (20120918)	175.62487 (20120918)	
170.46312 (20120918)	165.31223 (20120918)		
3620616.4 | 187.02539 (20120918)	181.23171 (20120918)	175.65231 (20120918)	
169.98121 (20120918)	163.92711 (20120918)		
3620598.4 | 185.88551 (20120918)	179.44951 (20120918)	172.55253 (20120918)	
166.89280 (20120901)	162.28404 (20020724)		
3620580.3 | 197.23403 (20122524)	188.57447 (20122524)	181.38484 (20120618)	
173.80152 (20120618)	165.76243 (20120618)		
3620562.3 | 204.01999 (21011201)	194.18548 (21011623)	188.51058 (20122524)	
182.61374 (20122524)	176.10788 (20122524)		
3620544.2 | 223.81046 (20120608)	211.42303 (20120608)	197.90060 (20120608)	
188.00930 (21011201)	180.07833 (21011201)		
3620526.2 220.80232 (20120608)	216.62547 (20120608)	210.64140 (20120608)	
202.91830 (20120608)	192.96846 (20120608)		

^ *** AERMOD - VERSION 22112 *** *** C:\Users\anoll\OneDrive -
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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: TRUCKS ***
 INCLUDING SOURCE(S): L0000176 , L0000177
 , L0000178 , L0000179 , L0000180 ,
 , L0000181 , L0000182 , L0000183 , L0000184 , L0000185
 , L0000186 , L0000187 , L0000188 ,
 , L0000189 , L0000190 , L0000191 , L0000192 , L0000193
 , L0000194 , L0000195 , L0000196 ,
 , L0000197 , L0000198 , L0000199 , L0000200 , L0000201
 , L0000202 , L0000203 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

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

**

Y-COORD			X-COORD (METERS)
(METERS)	491477.48	491487.17	491496.86
491506.55	491516.24		

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- - - - -
3620887.0 | 203.07725 (21011522) 197.67838 (21011522) 190.74161 (21011522)
181.60711 (21011522) 175.20387 (21011206)
3620869.0 | 194.20694 (21011522) 187.52666 (21011206) 184.31111 (21011206)
179.43928 (21011206) 173.07451 (21011206)
3620850.9 | 191.31347 (21011206) 182.40921 (21011206) 174.26181 (21011605)
171.64559 (21011605) 167.88744 (21011605)
3620832.9 | 181.11282 (21011605) 176.53231 (21011605) 170.47796 (19011219)
167.64692 (19011219) 163.45101 (19011219)
3620814.9 | 171.66926 (19120706) 167.50924 (19120706) 162.68062 (19120706)
157.38874 (21120206) 152.74087 (21120206)
3620796.8 | 169.46993 (19120706) 164.83460 (19120706) 159.78693 (21120206)
154.87204 (21120206) 148.85975 (21120206)
3620778.8 | 166.02614 (19120706) 161.13444 (21120206) 156.17361 (21120206)
149.45014 (21120206) 145.11050 (19010705)
3620760.7 | 162.58031 (21120206) 156.82537 (21120206) 148.85491 (21120206)
146.09366 (19010705) 144.18810 (19010705)
3620742.7 | 158.15537 (21120206) 150.90436 (19010705) 148.37063 (19010705)
145.80217 (19010705) 143.44044 (19010705)
3620724.6 | 155.47167 (19010705) 152.22032 (19010705) 148.98741 (19010705)
145.66771 (19010705) 142.07480 (19010705)
3620706.6 | 157.60435 (19010705) 153.55086 (19010705) 149.58589 (19010705)
144.83436 (19010705) 139.25385 (19010705)
3620688.6 | 158.73473 (19010705) 153.50156 (19010705) 147.39364 (19010705)
143.89973 (20120918) 140.65000 (20120918)
3620670.5 | 157.69634 (20120918) 153.78416 (20120918) 150.05951 (20120918)
146.19233 (20120918) 142.36528 (20120918)
3620652.5 | 159.73427 (20120918) 155.55699 (20120918) 151.39554 (20120918)
146.87282 (20120918) 142.18715 (20120918)
3620634.5 | 160.46678 (20120918) 155.38593 (20120918) 149.78559 (20120918)
145.41812 (21011522) 141.23696 (21011522)
3620616.4 | 157.77832 (21011522) 153.23745 (21011522) 148.41867 (21011522)
143.07505 (21011522) 138.19109 (21011206)
3620598.4 | 157.85529 (20020724) 153.91844 (20120901) 149.50706 (20120901)
145.10151 (20120901) 140.72505 (20120901)
3620580.3 | 159.08271 (21011524) 154.22427 (20020724) 151.58455 (20120901)
148.76779 (20020724) 145.63958 (20020724)
3620562.3 | 168.99469 (20122524) 164.47414 (20120618) 159.36952 (20120618)
153.51521 (20120618) 146.94088 (21011524)
3620544.2 | 174.17023 (20122524) 170.34250 (20122524) 166.27896 (20122524)
161.10703 (20122524) 154.92392 (20122524)
3620526.2 | 181.69826 (20120608) 174.40542 (21011201) 168.00051 (21011201)
162.38927 (21011623) 157.54514 (20122524)

```

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^ *** AERMOD - VERSION 22112 *** *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Fairmount Fire Station *** 01/24/24
*** AERMET - VERSION 22112 *** ***
*** 13:53:14

```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCKS ***
INCLUDING SOURCE(S): L0000176 , L0000177
, L0000178 , L0000179 , L0000180 ,
L0000181 , L0000182 , L0000183 , L0000184 , L0000185
, L0000186 , L0000187 , L0000188 ,
L0000189 , L0000190 , L0000191 , L0000192 , L0000193
, L0000194 , L0000195 , L0000196 ,
L0000197 , L0000198 , L0000199 , L0000200 , L0000201
, L0000202 , L0000203 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

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

**

Y-COORD (METERS) |	491525.93	491535.62	X-COORD (METERS) 491545.31
491555.00	491564.69		

3620887.0 |	172.56714 (21011206)	168.58522 (21011206)	163.81804 (21011206)
159.06789 (21011206)	157.75367 (21011605)		
3620869.0 |	165.64260 (21011206)	159.82931 (21011605)	157.95730 (21011605)
155.49234 (21011605)	151.93748 (21011605)		
3620850.9 |	163.27580 (21011605)	158.47001 (21011605)	156.99764 (19011219)
155.32657 (19011219)	151.34026 (19011219)		
3620832.9 |	157.55184 (19011219)	151.66346 (19011219)	146.00882 (19011219)
142.81442 (21022806)	141.47310 (19112504)		
3620814.9 |	149.69983 (19112504)	146.29260 (19112504)	142.58691 (19112504)
139.86667 (21022821)	139.58485 (21022821)		
3620796.8 |	143.00897 (19010705)	140.53987 (19010705)	138.05296 (19010705)
135.56357 (19010705)	133.25624 (19010705)		
3620778.8 |	142.94211 (19010705)	140.31373 (19010705)	137.68027 (19010705)
135.11748 (19010705)	132.56865 (19010705)		
3620760.7 |	142.03135 (19010705)	139.48455 (19010705)	136.72725 (19010705)
133.76089 (19010705)	130.46560 (21122302)		
3620742.7 |	140.55392 (19010705)	137.94543 (19010705)	134.60405 (19010705)
131.75479 (20120918)	130.41867 (20120918)		
3620724.6 |	137.96351 (19010705)	133.96032 (21122302)	132.88392 (20120918)
131.98419 (20120918)	130.63970 (20120918)		
3620706.6 |	135.39747 (20120918)	134.33091 (20120918)	133.10068 (20120918)
131.48822 (20120918)	130.06106 (20120918)		
3620688.6 |	137.12074 (20120918)	135.02506 (20120918)	132.93978 (20120918)
130.41276 (20120918)	128.16926 (20120918)		
3620670.5 |	138.69593 (20120918)	135.22319 (20120918)	131.22349 (20120918)

128.57025 (21011522)	127.05005 (21011522)		
3620652.5 | 137.24027 (21011522)	134.10739 (21011522)	130.75690 (21011522)	
127.23118 (21011522)	123.78906 (21011522)		
3620634.5 | 136.73779 (21011522)	131.89841 (21011522)	127.78019 (21011206)	
124.73927 (21011206)	122.53012 (19011219)		
3620616.4 | 134.42013 (21011206)	130.91750 (19011219)	128.13666 (19011219)	
125.48488 (19011219)	123.56694 (19011219)		
3620598.4 | 136.90474 (20120702)	133.30789 (20120702)	129.65395 (20120702)	
126.49677 (19011219)	123.95419 (19011219)		
3620580.3 | 141.89309 (20020724)	138.10302 (20020724)	134.12531 (20020724)	
130.02633 (20020724)	126.40535 (20020724)		
3620562.3 | 141.41439 (21011524)	138.09555 (20020724)	135.57666 (20020724)	
132.87251 (20020724)	129.91017 (20020724)		
3620544.2 | 150.22492 (20120618)	145.05437 (20120618)	139.48831 (21011524)	
134.70111 (21011524)	129.65227 (21011524)		
3620526.2 153.47187 (20122524)	149.05954 (20122524)	144.05044 (20122524)	
139.32363 (20120618)	135.36441 (21011524)		

^ *** AERMOD - VERSION 22112 *** *** C:\Users\anoll\OneDrive -
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: TRUCKS ***
 INCLUDING SOURCE(S): L0000176 , L0000177
 , L0000178 , L0000179 , L0000180 ,
 L0000181 , L0000182 , L0000183 , L0000184 , L0000185
 , L0000186 , L0000187 , L0000188 ,
 L0000189 , L0000190 , L0000191 , L0000192 , L0000193
 , L0000194 , L0000195 , L0000196 ,
 L0000197 , L0000198 , L0000199 , L0000200 , L0000201
 , L0000202 , L0000203 , . . . ,

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

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

**

Y-COORD |		X-COORD (METERS)
(METERS) |	491574.38	
- - - - -	- - - - -	- - - - -
- - - - -	- - - - -	- - - - -

3620887.0 |	158.32397 (21011605)
3620869.0 |	151.59144 (19011219)
3620850.9 |	146.70351 (19011219)

3620832.9	|	139.85496 (19112504)
3620814.9	|	138.48396 (21022821)
3620796.8	|	132.43338 (19102923)
3620778.8	|	130.45856 (20100122)
3620760.7	|	128.69717 (20120918)
3620742.7	|	128.98159 (20120918)
3620724.6	|	128.98081 (20120918)
3620706.6	|	128.17860 (20120918)
3620688.6	|	126.08716 (21011522)
3620670.5	|	124.75910 (21011522)
3620652.5	|	121.17114 (21011206)
3620634.5	|	120.98366 (19011219)
3620616.4	|	121.48928 (19011219)
3620598.4	|	121.41312 (19011219)
3620580.3	|	122.80455 (20020724)
3620562.3	|	126.73795 (20020724)
3620544.2	|	125.82211 (20020724)
3620526.2	|	131.63890 (21011524)

^ *** AERMOD - VERSION 22112 *** *** C:\Users\anoll\OneDrive -
 Dudek\Desktop\HARP2\Fairmount Fire Station *** 01/24/24
 *** AERMET - VERSION 22112 *** ***
 *** 13:53:14

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*** MODELOPTs: RegDFault CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: TRUCKS ***
 INCLUDING SOURCE(S): L0000176 , L0000177
 , L0000178 , L0000179 , L0000180 ,
 L0000181 , L0000182 , L0000183 , L0000184 , L0000185
 , L0000186 , L0000187 , L0000188 ,
 L0000189 , L0000190 , L0000191 , L0000192 , L0000193
 , L0000194 , L0000195 , L0000196 ,
 L0000197 , L0000198 , L0000199 , L0000200 , L0000201
 , L0000202 , L0000203 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
490849.15	3620944.66	139.88045	(20120922)	490856.44
3620922.06	138.74954	(19022302)		
490865.91	3620906.03	145.55762	(20121423)	490894.34

3620928.62	149.31025	(21011722)		
490889.96	3620952.67	157.65116	(19021507)	490887.78
3620978.91	159.79646	(19021507)		
490903.08	3620989.11	159.72233	(21111301)	490912.56
3621005.88	168.44295	(21122301)		
490923.49	3621026.28	166.12113	(20031401)	490929.32
3621045.23	162.02152	(21120104)		
490936.61	3621068.55	168.36221	(20021601)	490956.29
3621064.18	162.83223	(20111606)		
490973.05	3621064.91	170.54472	(19022306)	490990.54
3621068.55	181.51732	(21010802)		
491008.03	3621067.10	189.54501	(21010802)	491066.34
3621081.67	259.41865	(21012123)		
491058.32	3621095.52	209.72106	(21012123)	491055.40
3621110.10	201.10399	(21012123)		
491055.40	3621126.86	198.02886	(20012005)	491059.78
3621142.16	204.01457	(20012005)		
491058.32	3621155.28	202.08300	(20012005)	491053.22
3621174.96	223.18314	(20012005)		
491214.28	3620900.93	1458.14660	(20021105)	491182.95
3620912.59	1009.81005	(21011520)		
491263.84	3620721.64	783.91915	(19122819)	491266.03
3620737.67	728.75012	(19122819)		
491266.03	3620752.25	675.33689	(19122819)	491266.76
3620767.55	814.01632	(19120806)		
491266.76	3620785.05	931.31392	(19120706)	491268.95
3620807.64	830.20106	(19120803)		
491271.13	3620838.25	888.73033	(20101502)	491219.39
3620910.40	1425.45588	(20122203)		
491226.67	3620921.33	1288.82409	(21012621)	491233.96
3620933.72	1172.38200	(20120604)		
491254.37	3620925.71	888.94503	(21112924)	491266.76
3620924.25	791.28491	(21020704)		
491279.15	3620926.44	713.22041	(21020308)	491294.45
3620927.16	598.79074	(21010203)		
491189.51	3620924.98	1055.24054	(21011601)	491197.52
3620935.91	1113.24805	(21011601)		
491207.00	3620947.57	1136.12391	(20021105)	491215.01
3620962.88	1116.70842	(20122203)		
491223.03	3620973.81	1021.82755	(20122203)	491229.59
3620985.47	973.80355	(21012621)		
491314.13	3620938.10	487.46269	(20101502)	491288.62
3620853.55	710.00719	(19120803)		
491301.74	3620860.84	557.41351	(21021101)	491317.05
3620868.86	502.90285	(20042406)		
491249.27	3620952.67	868.43278	(21112924)	491254.37
3620965.79	811.28573	(21112924)		
491274.78	3620954.13	691.51327	(21020704)	491286.44
3620965.06	598.15986	(21020704)		
491239.79	3621000.04	875.05984	(20120604)	491263.84

3620977.45	705.81554	(21112924)		
491270.40	3620988.38	637.04664	(19122819)	491295.18
3620974.54	587.23992	(21020308)		
491246.35	3621010.25	798.53283	(20010102)	491256.56
3621026.28	685.31258	(19120806)		
491263.11	3621035.76	696.46008	(19120806)	491271.13
3621048.88	725.01479	(20112301)		
491300.28	3621035.03	515.09171	(21020704)	491290.81
3621020.45	552.19894	(21020704)		
491284.98	3621008.79	573.95109	(21020704)	491278.42
3620998.59	609.50188	(19122819)		
491299.56	3620986.20	562.33071	(21020308)	491303.93
3620996.40	542.34218	(21020308)		
491313.40	3621010.98	509.66131	(21020308)	491319.96
3621018.99	482.83901	(21020308)		
491308.30	3620822.22	531.90480	(21120206)	491306.84
3620803.27	548.91829	(19010705)		
491308.30	3620783.59	490.20666	(20120918)	491307.57
3620766.83	460.27779	(21020308)		
491311.22	3620747.15	455.01198	(21020308)	491308.30
3620730.39	468.05469	(21020308)		
491344.74	3620729.66	310.94097	(20101502)	491343.28
3620746.42	318.42697	(20101502)		
491344.74	3620763.18	315.89248	(20101502)	491343.28
3620779.94	331.29873	(21010203)		
491344.74	3620799.62	335.11526	(21010203)	491346.20
3620815.66	334.05229	(21010203)		

*** AERMOD - VERSION 22112 *** C:\Users\anol1\OneDrive -
 Dudek\Desktop\HARP2\Fairmount Fire Station *** 01/24/24
 *** AERMET - VERSION 22112 ***
 *** 13:53:14

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: TRUCKS ***
 INCLUDING SOURCE(S): L0000176 , L0000177
 , L0000178 , L0000179 , L0000180 ,
 L0000181 , L0000182 , L0000183 , L0000184 , L0000185
 , L0000186 , L0000187 , L0000188 ,
 L0000189 , L0000190 , L0000191 , L0000192 , L0000193
 , L0000194 , L0000195 , L0000196 ,
 L0000197 , L0000198 , L0000199 , L0000200 , L0000201
 , L0000202 , L0000203 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
491347.66	3620836.79	375.13819	(19010705)	491330.17
3620876.15	462.85227	(20042406)		
491327.38	3620952.58	444.06140	(20101502)	491338.31
3620938.00	395.11626	(19120803)		
491324.46	3620969.34	431.18360	(20101502)	491331.75
3620982.46	413.13099	(20101502)		
491338.31	3620994.12	397.07945	(20101502)	491345.60
3621010.89	373.86963	(20101502)		
491368.92	3620934.36	342.59825	(20042406)	491364.55
3620948.94	328.65560	(20042406)		
491365.28	3620961.33	309.31258	(20042406)	491363.09
3620975.90	336.58069	(19120803)		
491364.55	3620987.57	346.78825	(19120803)	491344.14
3620883.34	415.68197	(19120706)		
491363.09	3620884.07	363.10220	(21120206)	491362.01
3620545.80	299.70637	(20021621)		
491356.18	3620570.58	289.36024	(20120608)	491322.65
3620545.07	414.82649	(21011402)		
491347.43	3620535.60	333.06019	(21021823)	491265.80
3620676.27	816.30805	(21020704)		
491284.02	3620690.84	609.46995	(21020308)	491297.14
3620671.89	495.67866	(21020308)		
491373.28	3620591.53	246.64483	(20120608)	

▲ *** AERMOD - VERSION 22112 *** *** C:\Users\anol1\OneDrive -
Dudek\Desktop\HARP2\Fairmount Fire Station *** 01/24/24
*** AERMET - VERSION 22112 *** ***
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*** MODELOPTs: RegDFault CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): STCK1 , STCK2
, STCK3 , L0000176 , L0000177 ,
L0000178 , L0000179 , L0000180 , L0000181 , L0000182
, L0000183 , L0000184 , L0000185 ,
L0000186 , L0000187 , L0000188 , L0000189 , L0000190
, L0000191 , L0000192 , L0000193 ,
L0000194 , L0000195 , L0000196 , L0000197 , L0000198
, L0000199 , L0000200 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

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

**

Y-COORD (METERS)					X-COORD (METERS)
	491380.58		491390.27		491399.96
491409.65		491419.34			

3620887.0	|	1768.97198 (21031323)	1645.56321 (19101402)	1595.85186 (21102424)	
1607.14190		(19122918)	1492.24485 (19122918)		
3620869.0	|	1701.85346 (19121321)	1679.93961 (21102524)	1586.95385 (19070903)	
1518.92321		(21022806)	1530.80496 (20022223)		
3620850.9	|	1637.40354 (21011424)	1545.82077 (21011424)	1525.53637 (21011424)	
1445.92606		(21011424)	1387.53956 (19012718)		
3620832.9	|	1584.45698 (21031322)	1509.44617 (21031322)	1442.87624 (21111617)	
1419.57871		(21111617)	1410.72745 (21111617)		
3620814.9	|	1494.26069 (20011318)	1500.43205 (20011318)	1405.57914 (21071401)	
1352.01868		(21071401)	1296.55347 (21021220)		
3620796.8	|	1500.86733 (21031507)	1458.12335 (21031507)	1369.29419 (21101704)	
1332.42635		(21101704)	1297.48136 (21101704)		
3620778.8	|	1540.03220 (19022619)	1376.90604 (21012001)	1314.61479 (19072806)	
1280.58968		(20100123)	1254.23319 (20100123)		
3620760.7	|	1441.01086 (19110518)	1359.73439 (20070906)	1300.05811 (20021505)	
1260.82628		(20100101)	1245.76625 (20103117)		
3620742.7	|	1522.16822 (20122308)	1370.20101 (19120602)	1327.17255 (19120602)	
1280.98081		(19120602)	1230.53106 (19120602)		
3620724.6	|	1431.63947 (20033102)	1407.06366 (19120708)	1360.45025 (19120708)	
1309.26788		(20122308)	1248.29384 (20122308)		
3620706.6	|	1421.62214 (21013008)	1381.56000 (21010606)	1370.34388 (20033102)	
1340.45814		(20033102)	1291.94018 (20033102)		
3620688.6	|	1397.28922 (19111201)	1369.48449 (19120503)	1359.71831 (19120503)	
1311.75613		(19120503)	1290.01588 (21010606)		
3620670.5	|	1420.10013 (20121708)	1381.14654 (20020108)	1329.29761 (21111320)	
1315.98760		(19111201)	1289.75506 (19120503)		
3620652.5	|	1509.46385 (20012808)	1419.73018 (20101404)	1363.89948 (20101404)	
1310.52141		(20122103)	1277.11906 (21011301)		
3620634.5	|	1654.23880 (20012204)	1506.82752 (20012208)	1418.46938 (20012808)	
1354.70166		(20101404)	1318.90998 (20101404)		
3620616.4	|	1758.98510 (20012204)	1681.70954 (20012204)	1559.84753 (20012204)	
1426.90607		(21062705)	1328.77484 (20012808)		
3620598.4	|	1729.29218 (21101703)	1700.31593 (20012204)	1677.61925 (20012204)	
1594.81699		(20012204)	1463.00341 (20012204)		
3620580.3	|	2176.75671 (20091806)	1865.20501 (20091806)	1666.87628 (21101703)	
1633.84644		(20012204)	1594.72056 (20012204)		
3620562.3	|	2305.57053 (20091806)	2142.38439 (20091806)	1877.88144 (20091806)	
1604.35842		(21101703)	1577.82544 (21101703)		
3620544.2	|	2334.33462 (21101402)	2244.76483 (21101402)	2115.75511 (20091806)	

1891.79910 (20091806) 1536.46513 (20112201)
3620526.2 | 2143.32091 (20070524) 2216.53326 (21101402) 2160.48112 (21101402)
2058.67858 (20091806) 1878.90190 (20091806)
^ *** AERMOD - VERSION 22112 *** *** C:\Users\anoll\OneDrive -
Dudek\Desktop\HARP2\Fairmount Fire Station *** 01/24/24
*** AERMET - VERSION 22112 *** ***
*** 13:53:14

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): STCK1 , STCK2
, STCK3 , L0000176 , L0000177 ,
L0000178 , L0000179 , L0000180 , L0000181 , L0000182
, L0000183 , L0000184 , L0000185 ,
L0000186 , L0000187 , L0000188 , L0000189 , L0000190
, L0000191 , L0000192 , L0000193 ,
L0000194 , L0000195 , L0000196 , L0000197 , L0000198
, L0000199 , L0000200 , . . . ,

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

** CONC OF VARIOUS IN MICROGRAMS/M**3
**
Y-COORD | X-COORD (METERS)
(METERS) | 491429.03 491438.72 491448.41
491458.10 491467.79
- - - - -
- - - - -
3620887.0 | 1409.14058 (19122918) 1440.58460 (21022806) 1386.39458 (21022806)
1393.14094 (21022806) 1357.61178 (21022806)
3620869.0 | 1460.95695 (20022223) 1389.77900 (20022223) 1313.60323 (20022223)
1282.98081 (20112219) 1247.75812 (19102923)
3620850.9 | 1399.75985 (21011424) 1333.28971 (20121021) 1337.98454 (20121021)
1296.37305 (21112702) 1276.48054 (21112702)
3620832.9 | 1354.25476 (21111617) 1302.20517 (21111617) 1256.75635 (21111617)
1214.39188 (21111617) 1174.65275 (21111617)
3620814.9 | 1256.38079 (21021220) 1229.40660 (19112202) 1207.89741 (19112202)
1190.71682 (19112202) 1175.50795 (19112202)
3620796.8 | 1267.19806 (21101704) 1238.60829 (21101704) 1211.53983 (21101704)
1185.88242 (21101704) 1165.67839 (21101704)
3620778.8 | 1227.21783 (20100123) 1202.85450 (20100123) 1178.18785 (20100123)
1151.84657 (20100123) 1129.57148 (20100123)
3620760.7 | 1209.26482 (20103117) 1128.16209 (20100101) 1088.43304 (20112205)
1067.69565 (21042901) 1045.98352 (21042901)

3620742.7 |	1184.86915 (20021505)	1172.44010 (20021505)	1153.40357 (20021505)
1125.74828 (20021505)	1094.63499 (20021505)		
3620724.6 |	1203.69238 (19120602)	1195.73912 (19120602)	1177.40788 (19120602)
1144.36603 (19120602)	1104.16288 (19120602)		
3620706.6 |	1229.83313 (20033102)	1175.50534 (21011524)	1145.97952 (21101604)
1110.25071 (21101604)	1062.78425 (21101604)		
3620688.6 |	1262.13390 (20033102)	1253.13642 (20033102)	1225.87157 (20033102)
1176.61188 (20033102)	1116.51047 (20033102)		
3620670.5 |	1276.68434 (19120503)	1233.55306 (19120503)	1185.67040 (21010606)
1168.71268 (21010606)	1143.73735 (20033102)		
3620652.5 |	1250.55743 (21111320)	1221.90222 (19111201)	1183.77900 (19120503)
1172.38038 (19120503)	1142.88346 (19120503)		
3620634.5 |	1241.46075 (20122103)	1218.39075 (20122103)	1179.52296 (21111320)
1162.48170 (19111201)	1130.71558 (19111201)		
3620616.4 |	1286.43402 (20101404)	1253.41893 (20101404)	1192.31326 (20101404)
1161.49562 (20122103)	1127.29076 (21011301)		
3620598.4 |	1347.03906 (21062705)	1249.06155 (20082224)	1223.91886 (20101404)
1209.72548 (20101404)	1158.24612 (20101404)		
3620580.3 |	1506.01946 (20012204)	1386.74971 (21022604)	1285.04021 (21062705)
1203.23849 (20082224)	1179.07800 (21032905)		
3620562.3 |	1563.98502 (20012204)	1506.68818 (20012204)	1407.71987 (20012204)
1313.34598 (21062705)	1211.06155 (21062705)		
3620544.2 |	1542.96741 (21101703)	1499.37019 (20012204)	1478.25591 (20012204)
1417.59440 (20012204)	1323.83240 (20012204)		
3620526.2 |	1544.14614 (20091806)	1447.27700 (21101703)	1427.66887 (21101703)
1420.18083 (20012204)	1390.21214 (20012204)		

^ *** AERMOD - VERSION 22112 *** C:\Users\anoll\OneDrive -
 Dudek\Desktop\HARP2\Fairmount Fire Station *** 01/24/24
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): STCK1 , STCK2
 , STCK3 , L0000176 , L0000177 ,
 L0000178 , L0000179 , L0000180 , L0000181 , L0000182
 , L0000183 , L0000184 , L0000185 ,
 L0000186 , L0000187 , L0000188 , L0000189 , L0000190
 , L0000191 , L0000192 , L0000193 ,
 L0000194 , L0000195 , L0000196 , L0000197 , L0000198
 , L0000199 , L0000200 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

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

**

Y-COORD				X-COORD (METERS)
(METERS)		491477.48	491487.17	491496.86
	491506.55		491516.24	

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- - - - -
3620887.0 | 1325.52104 (21022806) 1281.65578 (21022806) 1236.69861 (21022806)
1194.25924 (21022806) 1162.72286 (19112504)
3620869.0 | 1227.12413 (19102923) 1203.91810 (19102923) 1178.33703 (19102923)
1150.56079 (19102923) 1119.30186 (20022603)
3620850.9 | 1263.72387 (21112702) 1248.48563 (21112702) 1230.98577 (21112702)
1207.41776 (21112702) 1185.16519 (20100122)
3620832.9 | 1141.96788 (20100122) 1116.45851 (20100122) 1091.80582 (21021221)
1071.09896 (21021221) 1053.54458 (21020722)
3620814.9 | 1165.60655 (19112202) 1160.28912 (19112202) 1151.59469 (19112202)
1143.29486 (19112202) 1127.45579 (19112202)
3620796.8 | 1151.27411 (21101704) 1144.82733 (21101704) 1139.65368 (21101704)
1128.62483 (21101704) 1118.04089 (21101704)
3620778.8 | 1109.61769 (20100123) 1103.03264 (20100123) 1096.48601 (20100123)
1086.42182 (20100123) 1076.39312 (20100123)
3620760.7 | 1024.62613 (21042901) 1014.70636 (21042901) 1000.22166 (21042901)
989.41356 (21042901) 995.25270 (20100123)
3620742.7 | 1068.11064 (20100101) 1056.72083 (20100101) 1037.81283 (20100101)
1015.61976 (20100101) 994.49649 (20100101)
3620724.6 | 1062.45374 (19120602) 1023.28083 (19120602) 1013.48389 (20021505)
1011.31368 (20021505) 1004.06314 (20021505)
3620706.6 | 1049.75529 (19120602) 1052.22371 (19120602) 1048.88926 (19120602)
1034.92043 (19120602) 1014.08876 (19120602)
3620688.6 | 1059.42851 (20101722) 1040.21406 (21011524) 1019.31691 (21101604)
994.94194 (21101604) 960.85651 (21101604)
3620670.5 | 1136.02025 (20033102) 1116.52936 (20033102) 1084.65219 (20033102)
1039.79331 (20033102) 991.67943 (20101722)
3620652.5 | 1095.01010 (21010606) 1096.82658 (21010606) 1080.80581 (21010606)
1072.70540 (20033102) 1066.05472 (20033102)
3620634.5 | 1108.85524 (19120503) 1110.30467 (19120503) 1089.41712 (19120503)
1049.60242 (19120503) 1039.18791 (21010606)
3620616.4 | 1113.75399 (21111320) 1099.62895 (19111201) 1071.67750 (19111201)
1055.12238 (19120503) 1057.87039 (19120503)
3620598.4 | 1116.23969 (20122103) 1102.66478 (20122103) 1075.07288 (21011301)
1065.13580 (21111320) 1052.00541 (19111201)
3620580.3 | 1168.35362 (20101404) 1135.98571 (20101404) 1083.49700 (20101404)
1080.34069 (20122103) 1049.20175 (21011301)
3620562.3 | 1156.47681 (20082224) 1145.50744 (21032905) 1139.42981 (20101404)
1112.53345 (20101404) 1057.72483 (20101404)
3620544.2 | 1256.03232 (21062705) 1158.46379 (21062705) 1129.73719 (20082224)
1109.83800 (21032905) 1096.22996 (20101404)
3620526.2 | 1322.99669 (20012204) 1252.08649 (21022604) 1186.42252 (21062705)
1095.12936 (20082224) 1064.78902 (20082224)

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*** AERMOD - VERSION 22112 ***
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

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

INCLUDING SOURCE(S): STCK1 , STCK2
, STCK3 , L0000176 , L0000177 ,
L0000178 , L0000179 , L0000180 , L0000181 , L0000182
, L0000183 , L0000184 , L0000185 ,
L0000186 , L0000187 , L0000188 , L0000189 , L0000190
, L0000191 , L0000192 , L0000193 ,
L0000194 , L0000195 , L0000196 , L0000197 , L0000198
, L0000199 , L0000200 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

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

**

Y-COORD |			X-COORD (METERS)
(METERS) |	491525.93	491535.62	491545.31
491555.00	491564.69		

3620887.0 | 1116.00049 (19040103) 1106.64705 (19102923) 1090.11659 (19102923)
1097.82601 (19102923) 1141.71589 (19102923)
3620869.0 | 1109.89920 (21112702) 1111.04115 (21112702) 1109.85169 (21112702)
1110.61332 (21112702) 1139.80636 (21112702)
3620850.9 | 1162.56460 (20100122) 1150.19270 (20100122) 1140.08992 (20100122)
1128.57190 (20100122) 1105.00003 (20100122)
3620832.9 | 1032.09098 (21020722) 1015.56975 (21020722) 1003.64159 (21020722)
991.77450 (21020722) 984.06354 (21020722)
3620814.9 | 1115.87235 (19112202) 1100.69838 (19112202) 1085.67857 (19112202)
1070.73218 (19112202) 1071.11588 (19112202)
3620796.8 | 1107.75322 (21101704) 1094.04455 (21101704) 1080.47905 (21101704)
1067.03671 (21101704) 1061.09941 (21101704)
3620778.8 | 1066.74565 (21102822) 1057.59977 (21102822) 1048.26414 (21102822)
1042.25626 (21102822) 1043.08750 (21102822)
3620760.7 | 1001.13699 (20100123) 1003.00658 (20100123) 1003.90447 (20100123)
1007.05572 (20100123) 1015.90546 (20100123)
3620742.7 | 967.42510 (20100101) 967.01987 (20112205) 967.92492 (20112205)
971.26008 (21042901) 979.55719 (21042901)
3620724.6 | 992.25340 (20021505) 988.96175 (20021505) 987.08609 (20100101)
997.38097 (20100101) 1004.72031 (20100101)

3620706.6 |	987.47524 (19120602)	971.46685 (19120602)	952.17620 (19120602)
938.83073 (20020724)	953.20859 (20021505)		
3620688.6 |	948.86721 (19120602)	962.64136 (19120602)	972.80468 (19120602)
976.98893 (19120602)	990.92075 (19120602)		
3620670.5 |	972.89078 (21011524)	958.17483 (21101604)	949.23657 (21101604)
934.99263 (21101604)	931.45523 (21101604)		
3620652.5 |	1043.98852 (20033102)	1017.69841 (20033102)	983.30429 (20033102)
948.73459 (20101722)	949.89376 (21011524)		
3620634.5 |	1029.24243 (21010606)	1007.97534 (21010606)	1012.66127 (20033102)
1006.70455 (20033102)	999.70146 (20033102)		
3620616.4 |	1040.92219 (19120503)	1003.44609 (19120503)	984.44185 (21010606)
984.44048 (21010606)	980.57854 (21010606)		
3620598.4 |	1021.42303 (19111201)	1006.84260 (19120503)	1007.25215 (19120503)
989.89031 (19120503)	963.80943 (19120503)		
3620580.3 |	1027.86881 (21111320)	1009.96308 (19111201)	993.13701 (19111201)
956.74968 (19111201)	953.63007 (19120503)		
3620562.3 |	1035.45846 (20122103)	1014.86290 (20122103)	984.10588 (21011301)
970.88708 (21111320)	954.95491 (19111201)		
3620544.2 |	1072.79108 (20101404)	1026.48317 (20101404)	985.93200 (20122103)
976.32029 (20122103)	947.90296 (21011301)		
3620526.2	1043.71108 (21032905)	1034.28815 (20101404)	1019.43825 (20101404)
983.69635 (20101404)	933.00688 (20122103)		

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): STCK1 , STCK2
 , STCK3 , L0000176 , L0000177 ,
 L0000178 , L0000179 , L0000180 , L0000181 , L0000182
 , L0000183 , L0000184 , L0000185 ,
 L0000186 , L0000187 , L0000188 , L0000189 , L0000190
 , L0000191 , L0000192 , L0000193 ,
 L0000194 , L0000195 , L0000196 , L0000197 , L0000198
 , L0000199 , L0000200 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

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

**

Y-COORD		X-COORD (METERS)
(METERS)	491574.38	

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- - - - -
3620887.0 | 1195.26160 (19102923)
3620869.0 | 1125.71300 (21112702)
3620850.9 | 1080.76498 (20100122)
3620832.9 | 976.75732 (19120719)
3620814.9 | 1071.70624 (19112202)
3620796.8 | 1059.15084 (21101704)
3620778.8 | 1043.80852 (21102822)
3620760.7 | 1024.29389 (20100123)
3620742.7 | 988.82054 (21042901)
3620724.6 | 1009.46781 (20100101)
3620706.6 | 977.13979 (20021505)
3620688.6 | 998.01726 (19120602)
3620670.5 | 939.12689 (20082301)
3620652.5 | 953.83363 (21011524)
3620634.5 | 984.57492 (20033102)
3620616.4 | 965.23332 (20033102)
3620598.4 | 933.55903 (21010606)
3620580.3 | 956.91018 (19120503)
3620562.3 | 933.63572 (19111201)
3620544.2 | 925.62827 (21111320)
3620526.2 | 932.18804 (20122103)

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^ *** AERMOD - VERSION 22112 *** *** C:\Users\anol1\OneDrive -
Dudek\Desktop\HARP2\Fairmount Fire Station *** 01/24/24
*** AERMET - VERSION 22112 *** ***
*** 13:53:14

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): STCK1 , STCK2
, STCK3 , L0000176 , L0000177 ,
, L0000178 , L0000179 , L0000180 , L0000181 , L0000182
, L0000183 , L0000184 , L0000185 ,
, L0000186 , L0000187 , L0000188 , L0000189 , L0000190
, L0000191 , L0000192 , L0000193 ,
, L0000194 , L0000195 , L0000196 , L0000197 , L0000198
, L0000199 , L0000200 , . . . ,

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*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

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X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M)
Y-COORD (M) CONC (YYMMDDHH)

```

490849.15	3620944.66	896.97315	(21021822)	490856.44
3620922.06	950.48990	(19112503)		
490865.91	3620906.03	1011.82128	(20120301)	490894.34
3620928.62	920.75207	(19102904)		
490889.96	3620952.67	1076.66588	(19102904)	490887.78
3620978.91	995.37893	(19123101)		
490903.08	3620989.11	962.91884	(21121205)	490912.56
3621005.88	853.98464	(21121205)		
490923.49	3621026.28	823.17581	(21011722)	490929.32
3621045.23	937.78044	(19012705)		
490936.61	3621068.55	1005.85377	(21111301)	490956.29
3621064.18	1063.42903	(21111301)		
490973.05	3621064.91	1039.35490	(20111621)	490990.54
3621068.55	1006.77068	(21122301)		
491008.03	3621067.10	1301.24008	(20021601)	491066.34
3621081.67	2067.82366	(20111606)		
491058.32	3621095.52	1906.44498	(20111606)	491055.40
3621110.10	1846.36178	(20111606)		
491055.40	3621126.86	1873.74254	(21010802)	491059.78
3621142.16	1885.40609	(21010802)		
491058.32	3621155.28	1803.11418	(21092722)	491053.22
3621174.96	1902.06131	(21092722)		
491214.28	3620900.93	5353.86540	(21112304)	491182.95
3620912.59	8774.07823	(20120123)		
491263.84	3620721.64	4798.38231	(21093002)	491266.03
3620737.67	4620.37430	(21101402)		
491266.03	3620752.25	4139.05715	(21101402)	491266.76
3620767.55	3587.31852	(20121508)		
491266.76	3620785.05	3666.53219	(20020108)	491268.95
3620807.64	3808.51590	(21092807)		
491271.13	3620838.25	3950.83426	(20050706)	491219.39
3620910.40	5316.94078	(21112304)		
491226.67	3620921.33	4978.84576	(20010306)	491233.96
3620933.72	4551.71372	(20010306)		
491254.37	3620925.71	3406.22504	(19112207)	491266.76
3620924.25	3256.71756	(21030602)		
491279.15	3620926.44	3331.57755	(21030602)	491294.45
3620927.16	2475.76132	(21030602)		
491189.51	3620924.98	8762.21335	(21071301)	491197.52
3620935.91	3907.63206	(20021105)		
491207.00	3620947.57	4523.59723	(20042403)	491215.01
3620962.88	4142.81526	(20042403)		
491223.03	3620973.81	4012.01111	(21112304)	491229.59
3620985.47	4097.23971	(21112304)		
491314.13	3620938.10	4606.14013	(20112204)	491288.62
3620853.55	3173.77749	(21120208)		
491301.74	3620860.84	2779.19277	(21120208)	491317.05
3620868.86	2500.69722	(20051401)		

491249.27	3620952.67	3120.25918	(21020704)	491254.37
3620965.79	2948.43102	(21020704)		
491274.78	3620954.13	2802.98532	(21010203)	491286.44
3620965.06	2845.29443	(21030602)		
491239.79	3621000.04	3866.57430	(20010306)	491263.84
3620977.45	2979.00196	(19112207)		
491270.40	3620988.38	2979.86608	(19112207)	491295.18
3620974.54	2933.65438	(21030602)		
491246.35	3621010.25	3766.03156	(20010306)	491256.56
3621026.28	3279.51793	(20010306)		
491263.11	3621035.76	2912.03397	(21020704)	491271.13
3621048.88	2769.64572	(21020704)		
491300.28	3621035.03	2622.20029	(21010203)	491290.81
3621020.45	2749.72522	(19112207)		
491284.98	3621008.79	2839.37106	(19112207)	491278.42
3620998.59	2937.08747	(19112207)		
491299.56	3620986.20	2791.00996	(21030602)	491303.93
3620996.40	2688.00085	(21030602)		
491313.40	3621010.98	2671.75501	(21030602)	491319.96
3621018.99	2693.23969	(21030602)		
491308.30	3620822.22	2530.43343	(20011318)	491306.84
3620803.27	2536.93648	(19022619)		
491308.30	3620783.59	2397.17280	(20121118)	491307.57
3620766.83	2301.36827	(20013019)		
491311.22	3620747.15	2167.62959	(19121722)	491308.30
3620730.39	2075.79308	(19022521)		
491344.74	3620729.66	1669.15807	(21013008)	491343.28
3620746.42	1759.49425	(20010701)		
491344.74	3620763.18	1833.17395	(20122308)	491343.28
3620779.94	1909.27522	(19121319)		
491344.74	3620799.62	1904.82837	(20012420)	491346.20
3620815.66	2026.47601	(20011318)		

^ *** AERMOD - VERSION 22112 *** C:\Users\anoll\OneDrive -
 Dudek\Desktop\HARP2\Fairmount Fire Station *** 01/24/24
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): STCK1 , STCK2
 , STCK3 , L0000176 , L0000177 ,
 , L0000178 , L0000179 , L0000180 , L0000181 , L0000182
 , L0000183 , L0000184 , L0000185 ,
 , L0000186 , L0000187 , L0000188 , L0000189 , L0000190
 , L0000191 , L0000192 , L0000193 ,
 , L0000194 , L0000195 , L0000196 , L0000197 , L0000198
 , L0000199 , L0000200 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
491347.66	3620836.79	1924.55928	(20121021)	491330.17
3620876.15	2291.24117	(20051401)		
491327.38	3620952.58	3969.87158	(20112204)	491338.31
3620938.00	6969.07504	(20112301)		
491324.46	3620969.34	2185.95454	(20042406)	491331.75
3620982.46	2080.09261	(20042406)		
491338.31	3620994.12	1970.27111	(20042406)	491345.60
3621010.89	1869.74162	(21030602)		
491368.92	3620934.36	6206.31190	(20100201)	491364.55
3620948.94	6749.06206	(21011804)		
491365.28	3620961.33	5925.85191	(20112301)	491363.09
3620975.90	5493.23479	(20112204)		
491364.55	3620987.57	3892.54828	(20112204)	491344.14
3620883.34	2094.69675	(20041724)		
491363.09	3620884.07	1823.27834	(21111224)	491362.01
3620545.80	2269.31923	(20070524)		
491356.18	3620570.58	2481.29647	(21101402)	491322.65
3620545.07	2596.50840	(21112801)		
491347.43	3620535.60	2493.46402	(21093002)	491265.80
3620676.27	3987.49914	(21112801)		
491284.02	3620690.84	3790.38426	(21101402)	491297.14
3620671.89	3517.07131	(21101402)		
491373.28	3620591.53	2233.07473	(20091806)	

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (26304

HRS) RESULTS ***

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

**

GROUP ID	NETWORK	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV,
ZHILL, ZFLAG) OF TYPE	GRID-ID		

IDLE_TRU	1ST HIGHEST VALUE IS	137.81556 AT (	491266.76, 3620767.55, 64.84,
64.84,	0.00) DC		
	2ND HIGHEST VALUE IS	128.12064 AT (	491266.03, 3620752.25, 65.81,
65.81,	0.00) DC		
	3RD HIGHEST VALUE IS	108.10620 AT (	491266.76, 3620785.05, 63.69,
63.69,	0.00) DC		
	4TH HIGHEST VALUE IS	103.41861 AT (	491266.03, 3620737.67, 66.96,
66.96,	0.00) DC		
	5TH HIGHEST VALUE IS	82.53969 AT (	491263.84, 3620721.64, 67.71,
67.71,	0.00) DC		
	6TH HIGHEST VALUE IS	73.03165 AT (	491308.30, 3620730.39, 69.16,
70.29,	0.00) DC		
	7TH HIGHEST VALUE IS	72.94454 AT (	491311.22, 3620747.15, 68.05,
70.29,	0.00) DC		
	8TH HIGHEST VALUE IS	64.00497 AT (	491307.57, 3620766.83, 66.37,
71.90,	0.00) DC		
	9TH HIGHEST VALUE IS	52.76536 AT (	491284.02, 3620690.84, 69.70,
69.70,	0.00) DC		
	10TH HIGHEST VALUE IS	51.73148 AT (	491265.80, 3620676.27, 69.53,
69.53,	0.00) DC		
GENERATO	1ST HIGHEST VALUE IS	74.97701 AT (	491266.76, 3620785.05, 63.69,
63.69,	0.00) DC		
	2ND HIGHEST VALUE IS	61.84219 AT (	491268.95, 3620807.64, 63.06,
63.06,	0.00) DC		
	3RD HIGHEST VALUE IS	58.02575 AT (	491266.76, 3620767.55, 64.84,
64.84,	0.00) DC		
	4TH HIGHEST VALUE IS	53.36226 AT (	491266.03, 3620752.25, 65.81,
65.81,	0.00) DC		
	5TH HIGHEST VALUE IS	52.17398 AT (	491266.03, 3620737.67, 66.96,
66.96,	0.00) DC		
	6TH HIGHEST VALUE IS	51.69904 AT (	491263.84, 3620721.64, 67.71,
67.71,	0.00) DC		
	7TH HIGHEST VALUE IS	44.37821 AT (	491307.57, 3620766.83, 66.37,
71.90,	0.00) DC		
	8TH HIGHEST VALUE IS	39.33102 AT (	491308.30, 3620783.59, 65.35,
71.01,	0.00) DC		
	9TH HIGHEST VALUE IS	38.49466 AT (	491311.22, 3620747.15, 68.05,
70.29,	0.00) DC		
	10TH HIGHEST VALUE IS	38.42329 AT (	491265.80, 3620676.27, 69.53,
69.53,	0.00) DC		
FUEL_TAN	1ST HIGHEST VALUE IS	207.62688 AT (	491266.76, 3620785.05, 63.69,

63.69,	0.00) DC			
	2ND HIGHEST VALUE IS	198.03134	AT (491268.95,	3620807.64,
63.06,	0.00) DC			63.06,
	3RD HIGHEST VALUE IS	127.71996	AT (491266.76,	3620767.55,
64.84,	0.00) DC			64.84,
	4TH HIGHEST VALUE IS	99.72090	AT (491307.57,	3620766.83,
71.90,	0.00) DC			66.37,
	5TH HIGHEST VALUE IS	99.46879	AT (491308.30,	3620783.59,
71.01,	0.00) DC			65.35,
	6TH HIGHEST VALUE IS	82.57859	AT (491266.03,	3620752.25,
65.81,	0.00) DC			65.81,
	7TH HIGHEST VALUE IS	70.70550	AT (491182.95,	3620912.59,
87.22,	0.00) DC			44.84,
	8TH HIGHEST VALUE IS	70.00842	AT (491271.13,	3620838.25,
70.15,	0.00) DC			61.01,
	9TH HIGHEST VALUE IS	69.95227	AT (491311.22,	3620747.15,
70.29,	0.00) DC			68.05,
	10TH HIGHEST VALUE IS	69.53099	AT (491306.84,	3620803.27,
71.01,	0.00) DC			64.42,
TRUCKS	1ST HIGHEST VALUE IS	138.90542	AT (491182.95,	3620912.59,
87.22,	0.00) DC			44.84,
	2ND HIGHEST VALUE IS	135.75038	AT (491189.51,	3620924.98,
87.22,	0.00) DC			44.79,
	3RD HIGHEST VALUE IS	132.44002	AT (491197.52,	3620935.91,
87.22,	0.00) DC			44.58,
	4TH HIGHEST VALUE IS	127.36850	AT (491207.00,	3620947.57,
87.22,	0.00) DC			44.36,
	5TH HIGHEST VALUE IS	127.11058	AT (491215.01,	3620962.88,
87.22,	0.00) DC			44.29,
	6TH HIGHEST VALUE IS	123.97455	AT (491229.59,	3620985.47,
87.22,	0.00) DC			44.37,
	7TH HIGHEST VALUE IS	123.71619	AT (491223.03,	3620973.81,
87.22,	0.00) DC			44.25,
	8TH HIGHEST VALUE IS	123.25007	AT (491214.28,	3620900.93,
87.22,	0.00) DC			45.05,
	9TH HIGHEST VALUE IS	121.66530	AT (491239.79,	3621000.04,
87.22,	0.00) DC			44.68,
	10TH HIGHEST VALUE IS	120.37353	AT (491246.35,	3621010.25,
87.22,	0.00) DC			44.84,

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (26304

HRS) RESULTS ***

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

**

GROUP ID	NETWORK	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV,
ZHILL, ZFLAG)	OF TYPE GRID-ID		
ALL	1ST HIGHEST VALUE IS	470.50583 AT (	491266.76, 3620785.05, 63.69,
63.69,	0.00) DC		
	2ND HIGHEST VALUE IS	410.47717 AT (	491266.76, 3620767.55, 64.84,
64.84,	0.00) DC		
	3RD HIGHEST VALUE IS	371.98482 AT (	491268.95, 3620807.64, 63.06,
63.06,	0.00) DC		
	4TH HIGHEST VALUE IS	349.51233 AT (	491266.03, 3620752.25, 65.81,
65.81,	0.00) DC		
	5TH HIGHEST VALUE IS	296.34350 AT (	491266.03, 3620737.67, 66.96,
66.96,	0.00) DC		
	6TH HIGHEST VALUE IS	269.60597 AT (	491263.84, 3620721.64, 67.71,
67.71,	0.00) DC		
	7TH HIGHEST VALUE IS	249.07851 AT (	491307.57, 3620766.83, 66.37,
71.90,	0.00) DC		
	8TH HIGHEST VALUE IS	248.05357 AT (	491182.95, 3620912.59, 44.84,
87.22,	0.00) DC		
	9TH HIGHEST VALUE IS	247.96829 AT (	491214.28, 3620900.93, 45.05,
87.22,	0.00) DC		
	10TH HIGHEST VALUE IS	227.39913 AT (	491189.51, 3620924.98, 44.79,
87.22,	0.00) DC		

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

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE SUMMARY OF HIGHEST 1-HR

RESULTS ***

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

**

GROUP ID				NETWORK	DATE	RECEPTOR
(XR, YR, ZELEV, ZHILL, ZFLAG)				AVERAGE CONC OF TYPE GRID-ID	(YYMMDDHH)	

IDLE_TRU HIGH	1ST HIGH VALUE IS	2052.58900	ON 20033102: AT (	491266.76,		
3620767.55,	64.84, 64.84,	0.00) DC				
GENERATO HIGH	1ST HIGH VALUE IS	1124.53532	ON 21081708: AT (	491214.28,		
3620900.93,	45.05, 87.22,	0.00) DC				
FUEL_TAN HIGH	1ST HIGH VALUE IS	7144.94837	ON 20120123: AT (	491182.95,		
3620912.59,	44.84, 87.22,	0.00) DC				
TRUCKS HIGH	1ST HIGH VALUE IS	1458.14660	ON 20021105: AT (	491214.28,		
3620900.93,	45.05, 87.22,	0.00) DC				
ALL HIGH	1ST HIGH VALUE IS	8774.07823	ON 20120123: AT (	491182.95,		
3620912.59,	44.84, 87.22,	0.00) DC				

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

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

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

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

A Total of 0 Fatal Error Message(s)
 A Total of 4 Warning Message(s)
 A Total of 682 Informational Message(s)

 A Total of 26304 Hours Were Processed

 A Total of 249 Calm Hours Identified

A Total of 433 Missing Hours Identified (1.65 Percent)

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

***** WARNING MESSAGES *****
SO W320 189 PPARM: Input Parameter May Be Out-of-Range for Parameter
VS
SO W320 191 PPARM: Input Parameter May Be Out-of-Range for Parameter
VS
ME W186 445 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
0.50
ME W187 445 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

*** AERMOD Finishes Successfully ***

HARP2 - HRACalc (dated 22118) 1/24/2024 1:59:30 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: 30

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 2
2<9 Years Bin: 0
2<16 Years Bin: 14
16<30 Years Bin: 14
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: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: True
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

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02

Soil mixing depth (m): 0.01

Dermal climate: Mixed

HOME GROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden

Fraction leafy: 0.137

Fraction exposed: 0.137

Fraction protected: 0.137

Fraction root: 0.137

TIER 2 SETTINGS

Tier2 not used.

Calculating cancer risk

Cancer risk breakdown by pollutant and receptor saved to: C:\Users\anol1\OneDrive - Dudek\Desktop\HARP2\Fairmount Fire Station\FAIRMOUNT FIRE STATION OPERATIONAL HRA\hra\ResidentialCancerRisk.csv

Cancer risk total by receptor saved to: C:\Users\anol1\OneDrive - Dudek\Desktop\HARP2\Fairmount Fire Station\FAIRMOUNT FIRE STATION OPERATIONAL HRA\hra\ResidentialCancerRiskSumByRec.csv

Calculating chronic risk

Chronic risk breakdown by pollutant and receptor saved to: C:\Users\anol1\OneDrive - Dudek\Desktop\HARP2\Fairmount Fire Station\FAIRMOUNT FIRE STATION OPERATIONAL HRA\hra\ResidentialNCChronicRisk.csv

Chronic risk total by receptor saved to: C:\Users\anol1\OneDrive - Dudek\Desktop\HARP2\Fairmount Fire Station\FAIRMOUNT FIRE STATION OPERATIONAL HRA\hra\ResidentialNCChronicRiskSumByRec.csv

Calculating acute risk

Acute risk breakdown by pollutant and receptor saved to: C:\Users\anol1\OneDrive - Dudek\Desktop\HARP2\Fairmount Fire Station\FAIRMOUNT FIRE STATION OPERATIONAL HRA\hra\ResidentialNCAcuteRisk.csv

Acute risk total by receptor saved to: C:\Users\anol1\OneDrive - Dudek\Desktop\HARP2\Fairmount Fire Station\FAIRMOUNT FIRE STATION OPERATIONAL HRA\hra\ResidentialNCAcuteRiskSumByRec.csv

HRA ran successfully

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_R	MMMLK_RIS	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RIS	PIG_RISK	CHICKEN_R	EGG_RISK
1	ALL	UCART1	491380.6	3620526	1.39E-06	30YrCancel	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	ALL	UCART1	491390.3	3620526	1.34E-06	30YrCancel	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	ALL	UCART1	491400	3620526	1.28E-06	30YrCancel	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	ALL	UCART1	491409.7	3620526	1.23E-06	30YrCancel	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	ALL	UCART1	491419.3	3620526	1.18E-06	30YrCancel	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	ALL	UCART1	491429	3620526	1.14E-06	30YrCancel	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	ALL	UCART1	491438.7	3620526	1.07E-06	30YrCancel	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	ALL	UCART1	491448.4	3620526	1.02E-06	30YrCancel	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	ALL	UCART1	491458.1	3620526	9.72E-07	30YrCancel	9.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	ALL	UCART1	491467.8	3620526	9.24E-07	30YrCancel	9.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
11	ALL	UCART1	491477.5	3620526	8.79E-07	30YrCancel	8.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12	ALL	UCART1	491487.2	3620526	8.39E-07	30YrCancel	8.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13	ALL	UCART1	491496.9	3620526	8.01E-07	30YrCancel	8.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
14	ALL	UCART1	491506.6	3620526	7.66E-07	30YrCancel	7.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
15	ALL	UCART1	491516.2	3620526	7.30E-07	30YrCancel	7.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16	ALL	UCART1	491525.9	3620526	6.99E-07	30YrCancel	6.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17	ALL	UCART1	491535.6	3620526	6.77E-07	30YrCancel	6.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
18	ALL	UCART1	491545.3	3620526	6.57E-07	30YrCancel	6.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19	ALL	UCART1	491555	3620526	6.40E-07	30YrCancel	6.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20	ALL	UCART1	491564.7	3620526	6.20E-07	30YrCancel	6.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21	ALL	UCART1	491574.4	3620526	6.03E-07	30YrCancel	6.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22	ALL	UCART1	491380.6	3620544	1.45E-06	30YrCancel	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23	ALL	UCART1	491390.3	3620544	1.38E-06	30YrCancel	1.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
24	ALL	UCART1	491400	3620544	1.32E-06	30YrCancel	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25	ALL	UCART1	491409.7	3620544	1.27E-06	30YrCancel	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
26	ALL	UCART1	491419.3	3620544	1.20E-06	30YrCancel	1.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27	ALL	UCART1	491429	3620544	1.14E-06	30YrCancel	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28	ALL	UCART1	491438.7	3620544	1.07E-06	30YrCancel	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29	ALL	UCART1	491448.4	3620544	1.01E-06	30YrCancel	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30	ALL	UCART1	491458.1	3620544	9.60E-07	30YrCancel	9.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31	ALL	UCART1	491467.8	3620544	9.14E-07	30YrCancel	9.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
32	ALL	UCART1	491477.5	3620544	8.72E-07	30YrCancel	8.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33	ALL	UCART1	491487.2	3620544	8.34E-07	30YrCancel	8.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34	ALL	UCART1	491496.9	3620544	8.00E-07	30YrCancel	8.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35	ALL	UCART1	491506.6	3620544	7.68E-07	30YrCancel	7.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36	ALL	UCART1	491516.2	3620544	7.44E-07	30YrCancel	7.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37	ALL	UCART1	491525.9	3620544	7.21E-07	30YrCancel	7.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38	ALL	UCART1	491535.6	3620544	7.00E-07	30YrCancel	7.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39	ALL	UCART1	491545.3	3620544	6.78E-07	30YrCancel	6.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
40	ALL	UCART1	491555	3620544	6.59E-07	30YrCancel	6.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41	ALL	UCART1	491564.7	3620544	6.40E-07	30YrCancel	6.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
42	ALL	UCART1	491574.4	3620544	6.22E-07	30YrCancel	6.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43	ALL	UCART1	491380.6	3620562	1.47E-06	30YrCancel	1.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
44	ALL	UCART1	491390.3	3620562	1.41E-06	30YrCancel	1.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
45	ALL	UCART1	491400	3620562	1.33E-06	30YrCancel	1.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46	ALL	UCART1	491409.7	3620562	1.25E-06	30YrCancel	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
47	ALL	UCART1	491419.3	3620562	1.18E-06	30YrCancel	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48	ALL	UCART1	491429	3620562	1.12E-06	30YrCancel	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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	98	ALL	UCART1	491506.6	3620598	8.34E-07	30YrCancer	8.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	99	ALL	UCART1	491516.2	3620598	8.11E-07	30YrCancer	8.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	100	ALL	UCART1	491525.9	3620598	7.87E-07	30YrCancer	7.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	101	ALL	UCART1	491535.6	3620598	7.61E-07	30YrCancer	7.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	102	ALL	UCART1	491545.3	3620598	7.35E-07	30YrCancer	7.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	103	ALL	UCART1	491555	3620598	7.07E-07	30YrCancer	7.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	104	ALL	UCART1	491564.7	3620598	6.85E-07	30YrCancer	6.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	105	ALL	UCART1	491574.4	3620598	6.63E-07	30YrCancer	6.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	106	ALL	UCART1	491380.6	3620616	1.45E-06	30YrCancer	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	107	ALL	UCART1	491390.3	3620616	1.35E-06	30YrCancer	1.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	108	ALL	UCART1	491400	3620616	1.28E-06	30YrCancer	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	109	ALL	UCART1	491409.7	3620616	1.21E-06	30YrCancer	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	110	ALL	UCART1	491419.3	3620616	1.16E-06	30YrCancer	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	111	ALL	UCART1	491429	3620616	1.10E-06	30YrCancer	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	112	ALL	UCART1	491438.7	3620616	1.06E-06	30YrCancer	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	113	ALL	UCART1	491448.4	3620616	1.03E-06	30YrCancer	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	114	ALL	UCART1	491458.1	3620616	9.98E-07	30YrCancer	9.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	115	ALL	UCART1	491467.8	3620616	9.65E-07	30YrCancer	9.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	116	ALL	UCART1	491477.5	3620616	9.36E-07	30YrCancer	9.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	117	ALL	UCART1	491487.2	3620616	9.09E-07	30YrCancer	9.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	118	ALL	UCART1	491496.9	3620616	8.82E-07	30YrCancer	8.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	119	ALL	UCART1	491506.6	3620616	8.53E-07	30YrCancer	8.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	120	ALL	UCART1	491516.2	3620616	8.25E-07	30YrCancer	8.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	121	ALL	UCART1	491525.9	3620616	7.95E-07	30YrCancer	7.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	122	ALL	UCART1	491535.6	3620616	7.64E-07	30YrCancer	7.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	123	ALL	UCART1	491545.3	3620616	7.35E-07	30YrCancer	7.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	124	ALL	UCART1	491555	3620616	7.04E-07	30YrCancer	7.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	125	ALL	UCART1	491564.7	3620616	6.83E-07	30YrCancer	6.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	126	ALL	UCART1	491574.4	3620616	6.58E-07	30YrCancer	6.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	127	ALL	UCART1	491380.6	3620634	1.43E-06	30YrCancer	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	128	ALL	UCART1	491390.3	3620634	1.36E-06	30YrCancer	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	129	ALL	UCART1	491400	3620634	1.29E-06	30YrCancer	1.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	130	ALL	UCART1	491409.7	3620634	1.24E-06	30YrCancer	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	131	ALL	UCART1	491419.3	3620634	1.20E-06	30YrCancer	1.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	132	ALL	UCART1	491429	3620634	1.16E-06	30YrCancer	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	133	ALL	UCART1	491438.7	3620634	1.12E-06	30YrCancer	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	134	ALL	UCART1	491448.4	3620634	1.08E-06	30YrCancer	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	135	ALL	UCART1	491458.1	3620634	1.04E-06	30YrCancer	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	136	ALL	UCART1	491467.8	3620634	1.00E-06	30YrCancer	1.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	137	ALL	UCART1	491477.5	3620634	9.69E-07	30YrCancer	9.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	138	ALL	UCART1	491487.2	3620634	9.34E-07	30YrCancer	9.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	139	ALL	UCART1	491496.9	3620634	9.00E-07	30YrCancer	9.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	140	ALL	UCART1	491506.6	3620634	8.65E-07	30YrCancer	8.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	141	ALL	UCART1	491516.2	3620634	8.25E-07	30YrCancer	8.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	142	ALL	UCART1	491525.9	3620634	7.85E-07	30YrCancer	7.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	143	ALL	UCART1	491535.6	3620634	7.49E-07	30YrCancer	7.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	144	ALL	UCART1	491545.3	3620634	7.17E-07	30YrCancer	7.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	145	ALL	UCART1	491555	3620634	6.85E-07	30YrCancer	6.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	146	ALL	UCART1	491564.7	3620634	6.61E-07	30YrCancer	6.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

147	ALL	UCART1	491574.4	3620634	6.37E-07	30YrCancer	6.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
148	ALL	UCART1	491380.6	3620652	1.46E-06	30YrCancer	1.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
149	ALL	UCART1	491390.3	3620652	1.39E-06	30YrCancer	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
150	ALL	UCART1	491400	3620652	1.34E-06	30YrCancer	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
151	ALL	UCART1	491409.7	3620652	1.30E-06	30YrCancer	1.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
152	ALL	UCART1	491419.3	3620652	1.26E-06	30YrCancer	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
153	ALL	UCART1	491429	3620652	1.22E-06	30YrCancer	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
154	ALL	UCART1	491438.7	3620652	1.17E-06	30YrCancer	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
155	ALL	UCART1	491448.4	3620652	1.12E-06	30YrCancer	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
156	ALL	UCART1	491458.1	3620652	1.07E-06	30YrCancer	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
157	ALL	UCART1	491467.8	3620652	1.03E-06	30YrCancer	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
158	ALL	UCART1	491477.5	3620652	9.79E-07	30YrCancer	9.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
159	ALL	UCART1	491487.2	3620652	9.36E-07	30YrCancer	9.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
160	ALL	UCART1	491496.9	3620652	8.92E-07	30YrCancer	8.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
161	ALL	UCART1	491506.6	3620652	8.43E-07	30YrCancer	8.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
162	ALL	UCART1	491516.2	3620652	7.99E-07	30YrCancer	7.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
163	ALL	UCART1	491525.9	3620652	7.54E-07	30YrCancer	7.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
164	ALL	UCART1	491535.6	3620652	7.15E-07	30YrCancer	7.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
165	ALL	UCART1	491545.3	3620652	6.78E-07	30YrCancer	6.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
166	ALL	UCART1	491555	3620652	6.45E-07	30YrCancer	6.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
167	ALL	UCART1	491564.7	3620652	6.26E-07	30YrCancer	6.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
168	ALL	UCART1	491574.4	3620652	6.04E-07	30YrCancer	6.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
169	ALL	UCART1	491380.6	3620671	1.52E-06	30YrCancer	1.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
170	ALL	UCART1	491390.3	3620671	1.47E-06	30YrCancer	1.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
171	ALL	UCART1	491400	3620671	1.42E-06	30YrCancer	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
172	ALL	UCART1	491409.7	3620671	1.37E-06	30YrCancer	1.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
173	ALL	UCART1	491419.3	3620671	1.33E-06	30YrCancer	1.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
174	ALL	UCART1	491429	3620671	1.27E-06	30YrCancer	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
175	ALL	UCART1	491438.7	3620671	1.21E-06	30YrCancer	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
176	ALL	UCART1	491448.4	3620671	1.14E-06	30YrCancer	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
177	ALL	UCART1	491458.1	3620671	1.09E-06	30YrCancer	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
178	ALL	UCART1	491467.8	3620671	1.02E-06	30YrCancer	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
179	ALL	UCART1	491477.5	3620671	9.61E-07	30YrCancer	9.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
180	ALL	UCART1	491487.2	3620671	9.06E-07	30YrCancer	9.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
181	ALL	UCART1	491496.9	3620671	8.53E-07	30YrCancer	8.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
182	ALL	UCART1	491506.6	3620671	7.97E-07	30YrCancer	7.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
183	ALL	UCART1	491516.2	3620671	7.46E-07	30YrCancer	7.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
184	ALL	UCART1	491525.9	3620671	6.99E-07	30YrCancer	6.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
185	ALL	UCART1	491535.6	3620671	6.61E-07	30YrCancer	6.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
186	ALL	UCART1	491545.3	3620671	6.27E-07	30YrCancer	6.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
187	ALL	UCART1	491555	3620671	5.96E-07	30YrCancer	5.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
188	ALL	UCART1	491564.7	3620671	5.79E-07	30YrCancer	5.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
189	ALL	UCART1	491574.4	3620671	5.59E-07	30YrCancer	5.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
190	ALL	UCART1	491380.6	3620689	1.61E-06	30YrCancer	1.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
191	ALL	UCART1	491390.3	3620689	1.54E-06	30YrCancer	1.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
192	ALL	UCART1	491400	3620689	1.48E-06	30YrCancer	1.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
193	ALL	UCART1	491409.7	3620689	1.41E-06	30YrCancer	1.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
194	ALL	UCART1	491419.3	3620689	1.35E-06	30YrCancer	1.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
195	ALL	UCART1	491429	3620689	1.27E-06	30YrCancer	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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441	ALL	UCART1	491574.4	3620887	2.37E-07	30YrCancer	2.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
442	ALL		490849.2	3620945	1.14E-07	30YrCancer	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
443	ALL		490856.4	3620922	1.27E-07	30YrCancer	1.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
444	ALL		490865.9	3620906	1.41E-07	30YrCancer	1.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
445	ALL		490894.3	3620929	1.28E-07	30YrCancer	1.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
446	ALL		490890	3620953	1.17E-07	30YrCancer	1.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
447	ALL		490887.8	3620979	1.05E-07	30YrCancer	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
448	ALL		490903.1	3620989	1.01E-07	30YrCancer	1.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
449	ALL		490912.6	3621006	9.42E-08	30YrCancer	9.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
450	ALL		490923.5	3621026	8.80E-08	30YrCancer	8.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
451	ALL		490929.3	3621045	8.46E-08	30YrCancer	8.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
452	ALL		490936.6	3621069	8.74E-08	30YrCancer	8.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
453	ALL		490956.3	3621064	9.54E-08	30YrCancer	9.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
454	ALL		490973.1	3621065	1.07E-07	30YrCancer	1.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
455	ALL		490990.5	3621069	1.28E-07	30YrCancer	1.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
456	ALL		491008	3621067	1.51E-07	30YrCancer	1.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
457	ALL		491066.3	3621082	2.33E-07	30YrCancer	2.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
458	ALL		491058.3	3621096	2.02E-07	30YrCancer	2.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
459	ALL		491055.4	3621110	1.94E-07	30YrCancer	1.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
460	ALL		491055.4	3621127	1.84E-07	30YrCancer	1.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
461	ALL		491059.8	3621142	1.82E-07	30YrCancer	1.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
462	ALL		491058.3	3621155	1.82E-07	30YrCancer	1.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
463	ALL		491053.2	3621175	1.77E-07	30YrCancer	1.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
464	ALL		491214.3	3620901	3.69E-06	30YrCancer	3.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
465	ALL		491183	3620913	3.32E-06	30YrCancer	3.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
466	ALL		491263.8	3620722	4.69E-06	30YrCancer	4.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
467	ALL		491266	3620738	4.78E-06	30YrCancer	4.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
468	ALL		491266	3620752	5.02E-06	30YrCancer	5.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
469	ALL		491266.8	3620768	5.36E-06	30YrCancer	5.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
470	ALL		491266.8	3620785	6.15E-06	30YrCancer	6.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
471	ALL		491269	3620808	4.88E-06	30YrCancer	4.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
472	ALL		491271.1	3620838	2.40E-06	30YrCancer	2.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
473	ALL		491219.4	3620910	3.29E-06	30YrCancer	3.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
474	ALL		491226.7	3620921	2.93E-06	30YrCancer	2.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
475	ALL		491234	3620934	2.62E-06	30YrCancer	2.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
476	ALL		491254.4	3620926	2.43E-06	30YrCancer	2.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
477	ALL		491266.8	3620924	2.30E-06	30YrCancer	2.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
478	ALL		491279.2	3620926	2.18E-06	30YrCancer	2.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
479	ALL		491294.5	3620927	2.11E-06	30YrCancer	2.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
480	ALL		491189.5	3620925	3.19E-06	30YrCancer	3.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
481	ALL		491197.5	3620936	3.09E-06	30YrCancer	3.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
482	ALL		491207	3620948	2.93E-06	30YrCancer	2.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
483	ALL		491215	3620963	2.79E-06	30YrCancer	2.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
484	ALL		491223	3620974	2.65E-06	30YrCancer	2.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
485	ALL		491229.6	3620985	2.53E-06	30YrCancer	2.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
486	ALL		491314.1	3620938	1.81E-06	30YrCancer	1.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
487	ALL		491288.6	3620854	1.50E-06	30YrCancer	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
488	ALL		491301.7	3620861	1.18E-06	30YrCancer	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
489	ALL		491317.1	3620869	9.97E-07	30YrCancer	9.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

490	ALL		491249.3	3620953	2.28E-06	30YrCancer	2.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
491	ALL		491254.4	3620966	2.12E-06	30YrCancer	2.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
492	ALL		491274.8	3620954	1.99E-06	30YrCancer	1.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
493	ALL		491286.4	3620965	1.82E-06	30YrCancer	1.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
494	ALL		491239.8	3621000	2.43E-06	30YrCancer	2.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
495	ALL		491263.8	3620977	1.99E-06	30YrCancer	1.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
496	ALL		491270.4	3620988	1.88E-06	30YrCancer	1.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
497	ALL		491295.2	3620975	1.69E-06	30YrCancer	1.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
498	ALL		491246.4	3621010	2.37E-06	30YrCancer	2.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
499	ALL		491256.6	3621026	2.31E-06	30YrCancer	2.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
500	ALL		491263.1	3621036	2.25E-06	30YrCancer	2.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
501	ALL		491271.1	3621049	2.18E-06	30YrCancer	2.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
502	ALL		491300.3	3621035	1.59E-06	30YrCancer	1.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
503	ALL		491290.8	3621020	1.66E-06	30YrCancer	1.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
504	ALL		491285	3621009	1.72E-06	30YrCancer	1.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
505	ALL		491278.4	3620999	1.80E-06	30YrCancer	1.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
506	ALL		491299.6	3620986	1.63E-06	30YrCancer	1.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
507	ALL		491303.9	3620996	1.57E-06	30YrCancer	1.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
508	ALL		491313.4	3621011	1.46E-06	30YrCancer	1.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
509	ALL		491320	3621019	1.38E-06	30YrCancer	1.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
510	ALL		491308.3	3620822	1.71E-06	30YrCancer	1.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
511	ALL		491306.8	3620803	2.37E-06	30YrCancer	2.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
512	ALL		491308.3	3620784	3.14E-06	30YrCancer	3.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
513	ALL		491307.6	3620767	3.55E-06	30YrCancer	3.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
514	ALL		491311.2	3620747	3.23E-06	30YrCancer	3.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
515	ALL		491308.3	3620730	2.90E-06	30YrCancer	2.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
516	ALL		491344.7	3620730	2.17E-06	30YrCancer	2.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
517	ALL		491343.3	3620746	2.28E-06	30YrCancer	2.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
518	ALL		491344.7	3620763	2.09E-06	30YrCancer	2.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
519	ALL		491343.3	3620780	1.82E-06	30YrCancer	1.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
520	ALL		491344.7	3620800	1.41E-06	30YrCancer	1.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
521	ALL		491346.2	3620816	1.17E-06	30YrCancer	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
522	ALL		491347.7	3620837	9.34E-07	30YrCancer	9.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
523	ALL		491330.2	3620876	8.67E-07	30YrCancer	8.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
524	ALL		491327.4	3620953	1.61E-06	30YrCancer	1.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
525	ALL		491338.3	3620938	1.45E-06	30YrCancer	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
526	ALL		491324.5	3620969	1.56E-06	30YrCancer	1.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
527	ALL		491331.8	3620982	1.44E-06	30YrCancer	1.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
528	ALL		491338.3	3620994	1.33E-06	30YrCancer	1.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
529	ALL		491345.6	3621011	1.23E-06	30YrCancer	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
530	ALL		491368.9	3620934	8.24E-07	30YrCancer	8.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
531	ALL		491364.6	3620949	1.08E-06	30YrCancer	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
532	ALL		491365.3	3620961	1.15E-06	30YrCancer	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
533	ALL		491363.1	3620976	1.19E-06	30YrCancer	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
534	ALL		491364.6	3620988	1.16E-06	30YrCancer	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
535	ALL		491344.1	3620883	7.58E-07	30YrCancer	7.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
536	ALL		491363.1	3620884	6.52E-07	30YrCancer	6.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
537	ALL		491362	3620546	1.61E-06	30YrCancer	1.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
538	ALL		491356.2	3620571	1.71E-06	30YrCancer	1.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

[illegible]

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE	RESP	SKIN	EYE	BONE/TEET	ENDO	BLOOD	ODOR	GENERAL	MAXHI
1	ALL	UCART1	491380.6	3620526	NonCancer	0.00E+00	1.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-04	0.00E+00	5.64E-09	0.00E+00	0.00E+00	1.35E-06	0.00E+00	0.00E+00	3.65E-04
2	ALL	UCART1	491390.3	3620526	NonCancer	0.00E+00	1.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-04	0.00E+00	5.32E-09	0.00E+00	0.00E+00	1.28E-06	0.00E+00	0.00E+00	3.52E-04
3	ALL	UCART1	491400	3620526	NonCancer	0.00E+00	1.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-04	0.00E+00	5.05E-09	0.00E+00	0.00E+00	1.21E-06	0.00E+00	0.00E+00	3.38E-04
4	ALL	UCART1	491409.7	3620526	NonCancer	0.00E+00	9.62E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-04	0.00E+00	4.78E-09	0.00E+00	0.00E+00	1.15E-06	0.00E+00	0.00E+00	3.23E-04
5	ALL	UCART1	491419.3	3620526	NonCancer	0.00E+00	9.44E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04	0.00E+00	4.69E-09	0.00E+00	0.00E+00	1.13E-06	0.00E+00	0.00E+00	3.12E-04
6	ALL	UCART1	491429	3620526	NonCancer	0.00E+00	9.28E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04	0.00E+00	4.60E-09	0.00E+00	0.00E+00	1.11E-06	0.00E+00	0.00E+00	2.99E-04
7	ALL	UCART1	491438.7	3620526	NonCancer	0.00E+00	9.03E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-04	0.00E+00	4.48E-09	0.00E+00	0.00E+00	1.08E-06	0.00E+00	0.00E+00	2.83E-04
8	ALL	UCART1	491448.4	3620526	NonCancer	0.00E+00	8.95E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04	0.00E+00	4.44E-09	0.00E+00	0.00E+00	1.07E-06	0.00E+00	0.00E+00	2.69E-04
9	ALL	UCART1	491458.1	3620526	NonCancer	0.00E+00	8.86E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04	0.00E+00	4.40E-09	0.00E+00	0.00E+00	1.06E-06	0.00E+00	0.00E+00	2.56E-04
10	ALL	UCART1	491467.8	3620526	NonCancer	0.00E+00	8.70E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04	0.00E+00	4.32E-09	0.00E+00	0.00E+00	1.04E-06	0.00E+00	0.00E+00	2.43E-04
11	ALL	UCART1	491477.5	3620526	NonCancer	0.00E+00	8.54E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-04	0.00E+00	4.24E-09	0.00E+00	0.00E+00	1.02E-06	0.00E+00	0.00E+00	2.31E-04
12	ALL	UCART1	491487.2	3620526	NonCancer	0.00E+00	8.48E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04	0.00E+00	4.21E-09	0.00E+00	0.00E+00	1.01E-06	0.00E+00	0.00E+00	2.21E-04
13	ALL	UCART1	491496.9	3620526	NonCancer	0.00E+00	8.41E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04	0.00E+00	4.17E-09	0.00E+00	0.00E+00	1.00E-06	0.00E+00	0.00E+00	2.11E-04
14	ALL	UCART1	491506.6	3620526	NonCancer	0.00E+00	8.33E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04	0.00E+00	4.14E-09	0.00E+00	0.00E+00	9.93E-07	0.00E+00	0.00E+00	2.02E-04
15	ALL	UCART1	491516.2	3620526	NonCancer	0.00E+00	8.25E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04	0.00E+00	4.10E-09	0.00E+00	0.00E+00	9.83E-07	0.00E+00	0.00E+00	1.92E-04
16	ALL	UCART1	491525.9	3620526	NonCancer	0.00E+00	8.20E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	4.07E-09	0.00E+00	0.00E+00	9.77E-07	0.00E+00	0.00E+00	1.84E-04
17	ALL	UCART1	491535.6	3620526	NonCancer	0.00E+00	8.20E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	4.07E-09	0.00E+00	0.00E+00	9.77E-07	0.00E+00	0.00E+00	1.78E-04
18	ALL	UCART1	491545.3	3620526	NonCancer	0.00E+00	8.21E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	4.08E-09	0.00E+00	0.00E+00	9.78E-07	0.00E+00	0.00E+00	1.73E-04
19	ALL	UCART1	491555	3620526	NonCancer	0.00E+00	8.21E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	4.08E-09	0.00E+00	0.00E+00	9.78E-07	0.00E+00	0.00E+00	1.68E-04
20	ALL	UCART1	491564.7	3620526	NonCancer	0.00E+00	8.16E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	4.05E-09	0.00E+00	0.00E+00	9.72E-07	0.00E+00	0.00E+00	1.63E-04
21	ALL	UCART1	491574.4	3620526	NonCancer	0.00E+00	8.10E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04	0.00E+00	4.02E-09	0.00E+00	0.00E+00	9.65E-07	0.00E+00	0.00E+00	1.59E-04
22	ALL	UCART1	491380.6	3620544	NonCancer	0.00E+00	1.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-04	0.00E+00	5.80E-09	0.00E+00	0.00E+00	1.39E-06	0.00E+00	0.00E+00	3.82E-04
23	ALL	UCART1	491390.3	3620544	NonCancer	0.00E+00	1.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-04	0.00E+00	5.43E-09	0.00E+00	0.00E+00	1.30E-06	0.00E+00	0.00E+00	3.65E-04
24	ALL	UCART1	491400	3620544	NonCancer	0.00E+00	1.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-04	0.00E+00	5.28E-09	0.00E+00	0.00E+00	1.27E-06	0.00E+00	0.00E+00	3.49E-04
25	ALL	UCART1	491409.7	3620544	NonCancer	0.00E+00	1.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-04	0.00E+00	5.20E-09	0.00E+00	0.00E+00	1.25E-06	0.00E+00	0.00E+00	3.34E-04
26	ALL	UCART1	491419.3	3620544	NonCancer	0.00E+00	1.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-04	0.00E+00	5.04E-09	0.00E+00	0.00E+00	1.21E-06	0.00E+00	0.00E+00	3.16E-04
27	ALL	UCART1	491429	3620544	NonCancer	0.00E+00	1.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04	0.00E+00	5.07E-09	0.00E+00	0.00E+00	1.22E-06	0.00E+00	0.00E+00	3.00E-04
28	ALL	UCART1	491438.7	3620544	NonCancer	0.00E+00	1.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04	0.00E+00	4.97E-09	0.00E+00	0.00E+00	1.19E-06	0.00E+00	0.00E+00	2.81E-04
29	ALL	UCART1	491448.4	3620544	NonCancer	0.00E+00	9.79E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04	0.00E+00	4.86E-09	0.00E+00	0.00E+00	1.17E-06	0.00E+00	0.00E+00	2.66E-04
30	ALL	UCART1	491458.1	3620544	NonCancer	0.00E+00	9.62E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04	0.00E+00	4.77E-09	0.00E+00	0.00E+00	1.15E-06	0.00E+00	0.00E+00	2.53E-04
31	ALL	UCART1	491467.8	3620544	NonCancer	0.00E+00	9.47E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04	0.00E+00	4.70E-09	0.00E+00	0.00E+00	1.13E-06	0.00E+00	0.00E+00	2.41E-04
32	ALL	UCART1	491477.5	3620544	NonCancer	0.00E+00	9.37E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04	0.00E+00	4.65E-09	0.00E+00	0.00E+00	1.12E-06	0.00E+00	0.00E+00	2.30E-04
33	ALL	UCART1	491487.2	3620544	NonCancer	0.00E+00	9.33E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04	0.00E+00	4.63E-09	0.00E+00	0.00E+00	1.11E-06	0.00E+00	0.00E+00	2.20E-04
34	ALL	UCART1	491496.9	3620544	NonCancer	0.00E+00	9.38E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04	0.00E+00	4.66E-09	0.00E+00	0.00E+00	1.12E-06	0.00E+00	0.00E+00	2.11E-04
35	ALL	UCART1	491506.6	3620544	NonCancer	0.00E+00	9.36E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04	0.00E+00	4.65E-09	0.00E+00	0.00E+00	1.12E-06	0.00E+00	0.00E+00	2.02E-04
36	ALL	UCART1	491516.2	3620544	NonCancer	0.00E+00	9.31E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04	0.00E+00	4.62E-09	0.00E+00	0.00E+00	1.11E-06	0.00E+00	0.00E+00	1.96E-04
37	ALL	UCART1	491525.9	3620544	NonCancer	0.00E+00	9.26E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04	0.00E+00	4.60E-09	0.00E+00	0.00E+00	1.10E-06	0.00E+00	0.00E+00	1.90E-04
38	ALL	UCART1	491535.6	3620544	NonCancer	0.00E+00	9.21E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	4.57E-09	0.00E+00	0.00E+00	1.10E-06	0.00E+00	0.00E+00	1.84E-04
39	ALL	UCART1	491545.3	3620544	NonCancer	0.00E+00	9.11E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04	0.00E+00	4.52E-09	0.00E+00	0.00E+00	1.09E-06	0.00E+00	0.00E+00	1.79E-04
40	ALL	UCART1	491555	3620544	NonCancer	0.00E+00	9.04E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04	0.00E+00	4.49E-09	0.00E+00	0.00E+00	1.08E-06	0.00E+00	0.00E+00	1.74E-04
41	ALL	UCART1	491564.7	3620544	NonCancer	0.00E+00	8.95E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	4.45E-09	0.00E+00	0.00E+00	1.07E-06	0.00E+00	0.00E+00	1.69E-04
42	ALL	UCART1	491574.4	3620544	NonCancer	0.00E+00	8.81E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04	0.00E+00	4.37E-09	0.00E+00	0.00E+00	1.05E-06	0.00E+00	0.00E+00	1.64E-04
43	ALL	UCART1	491380.6	3620562	NonCancer	0.00E+00	1.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-04	0.00E+00	5.81E-09	0.00E+00	0.00E+00	1.40E-06	0.00E+00	0.00E+00	3.87E-04
44	ALL	UCART1	491390.3	3620562	NonCancer	0.00E+00	1.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-04	0.00E+00	5.72E-09	0.00E+00	0.00E+00	1.37E-06	0.00E+00	0.00E+00	3.72E-04
45	ALL	UCART1	491400	3620562	NonCancer	0.00E+00	1.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-04	0.00E+00	5.58E-09	0.00E+00	0.00E+00	1.34E-06	0.00E+00	0.00E+00	3.50E-04
46	ALL	UCART1	491409.7	3620562	NonCancer	0.00E+00	1.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-04	0.00E+00	5.53E-09	0.00E+00	0.00E+00	1.33E-06	0.00E+00	0.00E+00	3.29E-04
47	ALL	UCART1	491419.3	3620562	NonCancer	0.00E+00	1.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-04	0.00E+00	5.53E-09	0.00E+00	0.00E+00	1.33E-06	0.00E+00	0.00E+00	3.11E-04
48	ALL	UCART1	491429	3620562	NonCancer	0.00E+00	1.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-04	0.00E+00	5.47E-09	0.00E+00	0.00E+00	1.31E-06	0.00E+00	0.00E+00	2.95E-04
49	ALL	UCART1	491438.7	3620562	NonCancer	0.00E+00	1.08E-09	0.00E+00												

55	ALL	UCART1	491496.9	3620562	NonCancer	0.00E+00	1.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04	0.00E+00	5.11E-09	0.00E+00	0.00E+00	1.23E-06	0.00E+00	0.00E+00	2.13E-04
56	ALL	UCART1	491506.6	3620562	NonCancer	0.00E+00	1.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04	0.00E+00	5.11E-09	0.00E+00	0.00E+00	1.23E-06	0.00E+00	0.00E+00	2.07E-04
57	ALL	UCART1	491516.2	3620562	NonCancer	0.00E+00	1.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04	0.00E+00	5.09E-09	0.00E+00	0.00E+00	1.22E-06	0.00E+00	0.00E+00	2.01E-04
58	ALL	UCART1	491525.9	3620562	NonCancer	0.00E+00	1.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04	0.00E+00	5.06E-09	0.00E+00	0.00E+00	1.21E-06	0.00E+00	0.00E+00	1.95E-04
59	ALL	UCART1	491535.6	3620562	NonCancer	0.00E+00	1.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	0.00E+00	5.02E-09	0.00E+00	0.00E+00	1.20E-06	0.00E+00	0.00E+00	1.89E-04
60	ALL	UCART1	491545.3	3620562	NonCancer	0.00E+00	9.95E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	4.94E-09	0.00E+00	0.00E+00	1.19E-06	0.00E+00	0.00E+00	1.84E-04
61	ALL	UCART1	491555	3620562	NonCancer	0.00E+00	9.83E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04	0.00E+00	4.88E-09	0.00E+00	0.00E+00	1.17E-06	0.00E+00	0.00E+00	1.79E-04
62	ALL	UCART1	491564.7	3620562	NonCancer	0.00E+00	9.69E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04	0.00E+00	4.81E-09	0.00E+00	0.00E+00	1.15E-06	0.00E+00	0.00E+00	1.74E-04
63	ALL	UCART1	491574.4	3620562	NonCancer	0.00E+00	9.53E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	4.73E-09	0.00E+00	0.00E+00	1.14E-06	0.00E+00	0.00E+00	1.68E-04
64	ALL	UCART1	491380.6	3620580	NonCancer	0.00E+00	1.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-04	0.00E+00	6.10E-09	0.00E+00	0.00E+00	1.46E-06	0.00E+00	0.00E+00	3.92E-04
65	ALL	UCART1	491390.3	3620580	NonCancer	0.00E+00	1.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-04	0.00E+00	6.10E-09	0.00E+00	0.00E+00	1.47E-06	0.00E+00	0.00E+00	3.70E-04
66	ALL	UCART1	491400	3620580	NonCancer	0.00E+00	1.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-04	0.00E+00	6.09E-09	0.00E+00	0.00E+00	1.46E-06	0.00E+00	0.00E+00	3.46E-04
67	ALL	UCART1	491409.7	3620580	NonCancer	0.00E+00	1.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-04	0.00E+00	6.07E-09	0.00E+00	0.00E+00	1.46E-06	0.00E+00	0.00E+00	3.26E-04
68	ALL	UCART1	491419.3	3620580	NonCancer	0.00E+00	1.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-04	0.00E+00	5.98E-09	0.00E+00	0.00E+00	1.44E-06	0.00E+00	0.00E+00	3.06E-04
69	ALL	UCART1	491429	3620580	NonCancer	0.00E+00	1.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-04	0.00E+00	5.88E-09	0.00E+00	0.00E+00	1.41E-06	0.00E+00	0.00E+00	2.90E-04
70	ALL	UCART1	491438.7	3620580	NonCancer	0.00E+00	1.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04	0.00E+00	5.76E-09	0.00E+00	0.00E+00	1.38E-06	0.00E+00	0.00E+00	2.75E-04
71	ALL	UCART1	491448.4	3620580	NonCancer	0.00E+00	1.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04	0.00E+00	5.68E-09	0.00E+00	0.00E+00	1.36E-06	0.00E+00	0.00E+00	2.60E-04
72	ALL	UCART1	491458.1	3620580	NonCancer	0.00E+00	1.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04	0.00E+00	5.61E-09	0.00E+00	0.00E+00	1.35E-06	0.00E+00	0.00E+00	2.48E-04
73	ALL	UCART1	491467.8	3620580	NonCancer	0.00E+00	1.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04	0.00E+00	5.57E-09	0.00E+00	0.00E+00	1.34E-06	0.00E+00	0.00E+00	2.38E-04
74	ALL	UCART1	491477.5	3620580	NonCancer	0.00E+00	1.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-04	0.00E+00	5.58E-09	0.00E+00	0.00E+00	1.34E-06	0.00E+00	0.00E+00	2.31E-04
75	ALL	UCART1	491487.2	3620580	NonCancer	0.00E+00	1.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04	0.00E+00	5.61E-09	0.00E+00	0.00E+00	1.35E-06	0.00E+00	0.00E+00	2.25E-04
76	ALL	UCART1	491496.9	3620580	NonCancer	0.00E+00	1.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04	0.00E+00	5.67E-09	0.00E+00	0.00E+00	1.36E-06	0.00E+00	0.00E+00	2.20E-04
77	ALL	UCART1	491506.6	3620580	NonCancer	0.00E+00	1.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04	0.00E+00	5.66E-09	0.00E+00	0.00E+00	1.36E-06	0.00E+00	0.00E+00	2.13E-04
78	ALL	UCART1	491516.2	3620580	NonCancer	0.00E+00	1.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04	0.00E+00	5.62E-09	0.00E+00	0.00E+00	1.35E-06	0.00E+00	0.00E+00	2.07E-04
79	ALL	UCART1	491525.9	3620580	NonCancer	0.00E+00	1.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04	0.00E+00	5.53E-09	0.00E+00	0.00E+00	1.33E-06	0.00E+00	0.00E+00	2.01E-04
80	ALL	UCART1	491535.6	3620580	NonCancer	0.00E+00	1.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04	0.00E+00	5.45E-09	0.00E+00	0.00E+00	1.31E-06	0.00E+00	0.00E+00	1.95E-04
81	ALL	UCART1	491545.3	3620580	NonCancer	0.00E+00	1.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	0.00E+00	5.37E-09	0.00E+00	0.00E+00	1.29E-06	0.00E+00	0.00E+00	1.89E-04
82	ALL	UCART1	491555	3620580	NonCancer	0.00E+00	1.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04	0.00E+00	5.27E-09	0.00E+00	0.00E+00	1.26E-06	0.00E+00	0.00E+00	1.83E-04
83	ALL	UCART1	491564.7	3620580	NonCancer	0.00E+00	1.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	5.18E-09	0.00E+00	0.00E+00	1.24E-06	0.00E+00	0.00E+00	1.78E-04
84	ALL	UCART1	491574.4	3620580	NonCancer	0.00E+00	1.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	5.08E-09	0.00E+00	0.00E+00	1.22E-06	0.00E+00	0.00E+00	1.73E-04
85	ALL	UCART1	491380.6	3620598	NonCancer	0.00E+00	1.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-04	0.00E+00	6.53E-09	0.00E+00	0.00E+00	1.57E-06	0.00E+00	0.00E+00	3.88E-04
86	ALL	UCART1	491390.3	3620598	NonCancer	0.00E+00	1.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-04	0.00E+00	6.63E-09	0.00E+00	0.00E+00	1.59E-06	0.00E+00	0.00E+00	3.62E-04
87	ALL	UCART1	491400	3620598	NonCancer	0.00E+00	1.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-04	0.00E+00	6.60E-09	0.00E+00	0.00E+00	1.58E-06	0.00E+00	0.00E+00	3.40E-04
88	ALL	UCART1	491409.7	3620598	NonCancer	0.00E+00	1.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-04	0.00E+00	6.53E-09	0.00E+00	0.00E+00	1.57E-06	0.00E+00	0.00E+00	3.19E-04
89	ALL	UCART1	491419.3	3620598	NonCancer	0.00E+00	1.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-04	0.00E+00	6.42E-09	0.00E+00	0.00E+00	1.54E-06	0.00E+00	0.00E+00	3.03E-04
90	ALL	UCART1	491429	3620598	NonCancer	0.00E+00	1.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-04	0.00E+00	6.31E-09	0.00E+00	0.00E+00	1.52E-06	0.00E+00	0.00E+00	2.88E-04
91	ALL	UCART1	491438.7	3620598	NonCancer	0.00E+00	1.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04	0.00E+00	6.26E-09	0.00E+00	0.00E+00	1.50E-06	0.00E+00	0.00E+00	2.75E-04
92	ALL	UCART1	491448.4	3620598	NonCancer	0.00E+00	1.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04	0.00E+00	6.22E-09	0.00E+00	0.00E+00	1.49E-06	0.00E+00	0.00E+00	2.61E-04
93	ALL	UCART1	491458.1	3620598	NonCancer	0.00E+00	1.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04	0.00E+00	6.23E-09	0.00E+00	0.00E+00	1.49E-06	0.00E+00	0.00E+00	2.53E-04
94	ALL	UCART1	491467.8	3620598	NonCancer	0.00E+00	1.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	6.22E-09	0.00E+00	0.00E+00	1.49E-06	0.00E+00	0.00E+00	2.45E-04
95	ALL	UCART1	491477.5	3620598	NonCancer	0.00E+00	1.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04	0.00E+00	6.23E-09	0.00E+00	0.00E+00	1.49E-06	0.00E+00	0.00E+00	2.38E-04
96	ALL	UCART1	491487.2	3620598	NonCancer	0.00E+00	1.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04	0.00E+00	6.25E-09	0.00E+00	0.00E+00	1.50E-06	0.00E+00	0.00E+00	2.32E-04
97	ALL	UCART1	491496.9	3620598	NonCancer	0.00E+00	1.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04	0.00E+00	6.23E-09	0.00E+00	0.00E+00	1.49E-06	0.00E+00	0.00E+00	2.26E-04
98	ALL	UCART1	491506.6	3620598	NonCancer	0.00E+00	1.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04	0.00E+00	6.18E-09	0.00E+00	0.00E+00	1.48E-06	0.00E+00	0.00E+00	2.20E-04
99	ALL	UCART1	491516.2	3620598	NonCancer	0.00E+00	1.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04	0.00E+00	6.11E-09	0.00E+00	0.00E+00	1.47E-06	0.00E+00	0.00E+00	2.14E-04
100	ALL	UCART1	491525.9	3620598	NonCancer	0.00E+00	1.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04	0.00E+00	6.03E-09	0.00E+00	0.00E+00	1.45E-06	0.00E+00	0.00E+00	2.07E-04
101	ALL	UCART1	491535.6	3620598	NonCancer	0.00E+00	1.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04	0.00E+00	5.91E-09	0.00E+00	0.00E+00	1.42E-06	0.00E+00	0.00E+00	2.00E-04
102	ALL	UCART1	491545.3	3620598	NonCancer	0.00E+00	1.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04	0.00E+00	5.77E-09	0.00E+00	0.00E+00	1.38E-06	0.00E+00	0.00E+00	1.93E-04
103	ALL	UCART1	491555	3620598	NonCancer	0.00E+00	1.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04	0.00E+00	5.62E-09	0.00E+00	0.00E+00	1.35E-06	0.00E+00	0.00E+00	1.86E-04

110		UCART1	491419.3	3620616	NonCancer	0.00E+00	1.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-04	0.00E+00	7.06E-09	0.00E+00	0.00E+00	1.69E-06	0.00E+00	0.00E+00	3.06E-04
111	ALL	UCART1	491429	3620616	NonCancer	0.00E+00	1.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-04	0.00E+00	7.04E-09	0.00E+00	0.00E+00	1.69E-06	0.00E+00	0.00E+00	2.90E-04
112	ALL	UCART1	491438.7	3620616	NonCancer	0.00E+00	1.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-04	0.00E+00	7.02E-09	0.00E+00	0.00E+00	1.69E-06	0.00E+00	0.00E+00	2.80E-04
113	ALL	UCART1	491448.4	3620616	NonCancer	0.00E+00	1.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04	0.00E+00	7.05E-09	0.00E+00	0.00E+00	1.69E-06	0.00E+00	0.00E+00	2.72E-04
114	ALL	UCART1	491458.1	3620616	NonCancer	0.00E+00	1.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	7.03E-09	0.00E+00	0.00E+00	1.69E-06	0.00E+00	0.00E+00	2.63E-04
115	ALL	UCART1	491467.8	3620616	NonCancer	0.00E+00	1.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04	0.00E+00	7.00E-09	0.00E+00	0.00E+00	1.68E-06	0.00E+00	0.00E+00	2.54E-04
116	ALL	UCART1	491477.5	3620616	NonCancer	0.00E+00	1.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04	0.00E+00	6.97E-09	0.00E+00	0.00E+00	1.67E-06	0.00E+00	0.00E+00	2.47E-04
117	ALL	UCART1	491487.2	3620616	NonCancer	0.00E+00	1.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04	0.00E+00	6.91E-09	0.00E+00	0.00E+00	1.66E-06	0.00E+00	0.00E+00	2.39E-04
118	ALL	UCART1	491496.9	3620616	NonCancer	0.00E+00	1.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04	0.00E+00	6.83E-09	0.00E+00	0.00E+00	1.64E-06	0.00E+00	0.00E+00	2.32E-04
119	ALL	UCART1	491506.6	3620616	NonCancer	0.00E+00	1.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04	0.00E+00	6.72E-09	0.00E+00	0.00E+00	1.61E-06	0.00E+00	0.00E+00	2.25E-04
120	ALL	UCART1	491516.2	3620616	NonCancer	0.00E+00	1.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	6.59E-09	0.00E+00	0.00E+00	1.58E-06	0.00E+00	0.00E+00	2.17E-04
121	ALL	UCART1	491525.9	3620616	NonCancer	0.00E+00	1.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04	0.00E+00	6.44E-09	0.00E+00	0.00E+00	1.55E-06	0.00E+00	0.00E+00	2.09E-04
122	ALL	UCART1	491535.6	3620616	NonCancer	0.00E+00	1.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04	0.00E+00	6.25E-09	0.00E+00	0.00E+00	1.50E-06	0.00E+00	0.00E+00	2.01E-04
123	ALL	UCART1	491545.3	3620616	NonCancer	0.00E+00	1.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04	0.00E+00	6.06E-09	0.00E+00	0.00E+00	1.45E-06	0.00E+00	0.00E+00	1.94E-04
124	ALL	UCART1	491555	3620616	NonCancer	0.00E+00	1.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04	0.00E+00	5.85E-09	0.00E+00	0.00E+00	1.40E-06	0.00E+00	0.00E+00	1.85E-04
125	ALL	UCART1	491564.7	3620616	NonCancer	0.00E+00	1.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	5.69E-09	0.00E+00	0.00E+00	1.36E-06	0.00E+00	0.00E+00	1.80E-04
126	ALL	UCART1	491574.4	3620616	NonCancer	0.00E+00	1.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	5.49E-09	0.00E+00	0.00E+00	1.32E-06	0.00E+00	0.00E+00	1.73E-04
127	ALL	UCART1	491380.6	3620634	NonCancer	0.00E+00	1.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-04	0.00E+00	8.01E-09	0.00E+00	0.00E+00	1.92E-06	0.00E+00	0.00E+00	3.77E-04
128	ALL	UCART1	491390.3	3620634	NonCancer	0.00E+00	1.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-04	0.00E+00	7.92E-09	0.00E+00	0.00E+00	1.90E-06	0.00E+00	0.00E+00	3.58E-04
129	ALL	UCART1	491400	3620634	NonCancer	0.00E+00	1.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-04	0.00E+00	7.89E-09	0.00E+00	0.00E+00	1.89E-06	0.00E+00	0.00E+00	3.40E-04
130	ALL	UCART1	491409.7	3620634	NonCancer	0.00E+00	1.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-04	0.00E+00	7.95E-09	0.00E+00	0.00E+00	1.91E-06	0.00E+00	0.00E+00	3.27E-04
131	ALL	UCART1	491419.3	3620634	NonCancer	0.00E+00	1.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-04	0.00E+00	8.05E-09	0.00E+00	0.00E+00	1.93E-06	0.00E+00	0.00E+00	3.15E-04
132	ALL	UCART1	491429	3620634	NonCancer	0.00E+00	1.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-04	0.00E+00	8.08E-09	0.00E+00	0.00E+00	1.94E-06	0.00E+00	0.00E+00	3.05E-04
133	ALL	UCART1	491438.7	3620634	NonCancer	0.00E+00	1.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-04	0.00E+00	8.10E-09	0.00E+00	0.00E+00	1.94E-06	0.00E+00	0.00E+00	2.95E-04
134	ALL	UCART1	491448.4	3620634	NonCancer	0.00E+00	1.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04	0.00E+00	8.06E-09	0.00E+00	0.00E+00	1.93E-06	0.00E+00	0.00E+00	2.84E-04
135	ALL	UCART1	491458.1	3620634	NonCancer	0.00E+00	1.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04	0.00E+00	7.98E-09	0.00E+00	0.00E+00	1.92E-06	0.00E+00	0.00E+00	2.75E-04
136	ALL	UCART1	491467.8	3620634	NonCancer	0.00E+00	1.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	7.84E-09	0.00E+00	0.00E+00	1.88E-06	0.00E+00	0.00E+00	2.64E-04
137	ALL	UCART1	491477.5	3620634	NonCancer	0.00E+00	1.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04	0.00E+00	7.73E-09	0.00E+00	0.00E+00	1.85E-06	0.00E+00	0.00E+00	2.55E-04
138	ALL	UCART1	491487.2	3620634	NonCancer	0.00E+00	1.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04	0.00E+00	7.58E-09	0.00E+00	0.00E+00	1.82E-06	0.00E+00	0.00E+00	2.46E-04
139	ALL	UCART1	491496.9	3620634	NonCancer	0.00E+00	1.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-04	0.00E+00	7.41E-09	0.00E+00	0.00E+00	1.78E-06	0.00E+00	0.00E+00	2.37E-04
140	ALL	UCART1	491506.6	3620634	NonCancer	0.00E+00	1.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04	0.00E+00	7.20E-09	0.00E+00	0.00E+00	1.73E-06	0.00E+00	0.00E+00	2.28E-04
141	ALL	UCART1	491516.2	3620634	NonCancer	0.00E+00	1.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	6.95E-09	0.00E+00	0.00E+00	1.67E-06	0.00E+00	0.00E+00	2.17E-04
142	ALL	UCART1	491525.9	3620634	NonCancer	0.00E+00	1.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04	0.00E+00	6.67E-09	0.00E+00	0.00E+00	1.60E-06	0.00E+00	0.00E+00	2.07E-04
143	ALL	UCART1	491535.6	3620634	NonCancer	0.00E+00	1.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04	0.00E+00	6.40E-09	0.00E+00	0.00E+00	1.54E-06	0.00E+00	0.00E+00	1.97E-04
144	ALL	UCART1	491545.3	3620634	NonCancer	0.00E+00	1.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	0.00E+00	6.13E-09	0.00E+00	0.00E+00	1.47E-06	0.00E+00	0.00E+00	1.89E-04
145	ALL	UCART1	491555	3620634	NonCancer	0.00E+00	1.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	5.85E-09	0.00E+00	0.00E+00	1.40E-06	0.00E+00	0.00E+00	1.80E-04
146	ALL	UCART1	491564.7	3620634	NonCancer	0.00E+00	1.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04	0.00E+00	5.62E-09	0.00E+00	0.00E+00	1.35E-06	0.00E+00	0.00E+00	1.74E-04
147	ALL	UCART1	491574.4	3620634	NonCancer	0.00E+00	1.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	5.38E-09	0.00E+00	0.00E+00	1.29E-06	0.00E+00	0.00E+00	1.68E-04
148	ALL	UCART1	491380.6	3620652	NonCancer	0.00E+00	1.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-04	0.00E+00	8.94E-09	0.00E+00	0.00E+00	2.15E-06	0.00E+00	0.00E+00	3.84E-04
149	ALL	UCART1	491390.3	3620652	NonCancer	0.00E+00	1.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-04	0.00E+00	9.02E-09	0.00E+00	0.00E+00	2.17E-06	0.00E+00	0.00E+00	3.67E-04
150	ALL	UCART1	491400	3620652	NonCancer	0.00E+00	1.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-04	0.00E+00	9.13E-09	0.00E+00	0.00E+00	2.19E-06	0.00E+00	0.00E+00	3.53E-04
151	ALL	UCART1	491409.7	3620652	NonCancer	0.00E+00	1.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-04	0.00E+00	9.26E-09	0.00E+00	0.00E+00	2.22E-06	0.00E+00	0.00E+00	3.44E-04
152	ALL	UCART1	491419.3	3620652	NonCancer	0.00E+00	1.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-04	0.00E+00	9.37E-09	0.00E+00	0.00E+00	2.25E-06	0.00E+00	0.00E+00	3.33E-04
153	ALL	UCART1	491429	3620652	NonCancer	0.00E+00	1.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-04	0.00E+00	9.36E-09	0.00E+00	0.00E+00	2.25E-06	0.00E+00	0.00E+00	3.21E-04
154	ALL	UCART1	491438.7	3620652	NonCancer	0.00E+00	1.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-04	0.00E+00	9.26E-09	0.00E+00	0.00E+00	2.22E-06	0.00E+00	0.00E+00	3.09E-04
155	ALL	UCART1	491448.4	3620652	NonCancer	0.00E+00	1.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04	0.00E+00	9.10E-09	0.00E+00	0.00E+00	2.19E-06	0.00E+00	0.00E+00	2.96E-04
156	ALL	UCART1	491458.1	3620652	NonCancer	0.00E+00	1.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-04	0.00E+00	8.87E-09	0.00E+00	0.00E+00	2.13E-06	0.00E+00	0.00E+00	2.83E-04
157	ALL	UCART1	491467.8	3620652	NonCancer	0.00E+00	1.74E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04	0.00E+00	8.64E-09	0.00E+00	0.00E+00	2.07E-06	0.00E+00	0.00E+00	2.71E-04
158	ALL	UCART1	491477.5	3620652	NonCancer	0.00E+00	1.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04	0.00E+00	8.36E-09	0.00E+00	0.00E+00	2.01			

165	ALL	UCART1	491545.3	3620652	NonCancer	0.00E+00	1.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04	0.00E+00	5.90E-09	0.00E+00	0.00E+00	1.42E-06	0.00E+00	0.00E+00	1.79E-04
166	ALL	UCART1	491555	3620652	NonCancer	0.00E+00	1.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04	0.00E+00	5.56E-09	0.00E+00	0.00E+00	1.34E-06	0.00E+00	0.00E+00	1.70E-04
167	ALL	UCART1	491564.7	3620652	NonCancer	0.00E+00	1.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04	0.00E+00	5.30E-09	0.00E+00	0.00E+00	1.27E-06	0.00E+00	0.00E+00	1.65E-04
168	ALL	UCART1	491574.4	3620652	NonCancer	0.00E+00	1.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04	0.00E+00	5.04E-09	0.00E+00	0.00E+00	1.21E-06	0.00E+00	0.00E+00	1.59E-04
169	ALL	UCART1	491380.6	3620671	NonCancer	0.00E+00	2.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-04	0.00E+00	1.05E-08	0.00E+00	0.00E+00	2.53E-06	0.00E+00	0.00E+00	4.00E-04
170	ALL	UCART1	491390.3	3620671	NonCancer	0.00E+00	2.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-04	0.00E+00	1.07E-08	0.00E+00	0.00E+00	2.57E-06	0.00E+00	0.00E+00	3.87E-04
171	ALL	UCART1	491400	3620671	NonCancer	0.00E+00	2.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-04	0.00E+00	1.08E-08	0.00E+00	0.00E+00	2.60E-06	0.00E+00	0.00E+00	3.74E-04
172	ALL	UCART1	491409.7	3620671	NonCancer	0.00E+00	2.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-04	0.00E+00	1.09E-08	0.00E+00	0.00E+00	2.61E-06	0.00E+00	0.00E+00	3.61E-04
173	ALL	UCART1	491419.3	3620671	NonCancer	0.00E+00	2.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-04	0.00E+00	1.09E-08	0.00E+00	0.00E+00	2.62E-06	0.00E+00	0.00E+00	3.50E-04
174	ALL	UCART1	491429	3620671	NonCancer	0.00E+00	2.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-04	0.00E+00	1.07E-08	0.00E+00	0.00E+00	2.56E-06	0.00E+00	0.00E+00	3.34E-04
175	ALL	UCART1	491438.7	3620671	NonCancer	0.00E+00	2.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-04	0.00E+00	1.04E-08	0.00E+00	0.00E+00	2.49E-06	0.00E+00	0.00E+00	3.19E-04
176	ALL	UCART1	491448.4	3620671	NonCancer	0.00E+00	2.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04	0.00E+00	1.00E-08	0.00E+00	0.00E+00	2.40E-06	0.00E+00	0.00E+00	3.01E-04
177	ALL	UCART1	491458.1	3620671	NonCancer	0.00E+00	1.94E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04	0.00E+00	9.61E-09	0.00E+00	0.00E+00	2.31E-06	0.00E+00	0.00E+00	2.86E-04
178	ALL	UCART1	491467.8	3620671	NonCancer	0.00E+00	1.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04	0.00E+00	9.14E-09	0.00E+00	0.00E+00	2.19E-06	0.00E+00	0.00E+00	2.69E-04
179	ALL	UCART1	491477.5	3620671	NonCancer	0.00E+00	1.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04	0.00E+00	8.67E-09	0.00E+00	0.00E+00	2.08E-06	0.00E+00	0.00E+00	2.53E-04
180	ALL	UCART1	491487.2	3620671	NonCancer	0.00E+00	1.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04	0.00E+00	8.19E-09	0.00E+00	0.00E+00	1.97E-06	0.00E+00	0.00E+00	2.39E-04
181	ALL	UCART1	491496.9	3620671	NonCancer	0.00E+00	1.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04	0.00E+00	7.70E-09	0.00E+00	0.00E+00	1.85E-06	0.00E+00	0.00E+00	2.25E-04
182	ALL	UCART1	491506.6	3620671	NonCancer	0.00E+00	1.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04	0.00E+00	7.18E-09	0.00E+00	0.00E+00	1.72E-06	0.00E+00	0.00E+00	2.10E-04
183	ALL	UCART1	491516.2	3620671	NonCancer	0.00E+00	1.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04	0.00E+00	6.68E-09	0.00E+00	0.00E+00	1.60E-06	0.00E+00	0.00E+00	1.96E-04
184	ALL	UCART1	491525.9	3620671	NonCancer	0.00E+00	1.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	6.21E-09	0.00E+00	0.00E+00	1.49E-06	0.00E+00	0.00E+00	1.84E-04
185	ALL	UCART1	491535.6	3620671	NonCancer	0.00E+00	1.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04	0.00E+00	5.79E-09	0.00E+00	0.00E+00	1.39E-06	0.00E+00	0.00E+00	1.74E-04
186	ALL	UCART1	491545.3	3620671	NonCancer	0.00E+00	1.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04	0.00E+00	5.40E-09	0.00E+00	0.00E+00	1.30E-06	0.00E+00	0.00E+00	1.65E-04
187	ALL	UCART1	491555	3620671	NonCancer	0.00E+00	1.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04	0.00E+00	5.04E-09	0.00E+00	0.00E+00	1.21E-06	0.00E+00	0.00E+00	1.57E-04
188	ALL	UCART1	491564.7	3620671	NonCancer	0.00E+00	9.63E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	0.00E+00	4.78E-09	0.00E+00	0.00E+00	1.15E-06	0.00E+00	0.00E+00	1.52E-04
189	ALL	UCART1	491574.4	3620671	NonCancer	0.00E+00	9.12E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	4.53E-09	0.00E+00	0.00E+00	1.09E-06	0.00E+00	0.00E+00	1.47E-04
190	ALL	UCART1	491380.6	3620689	NonCancer	0.00E+00	2.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-04	0.00E+00	1.27E-08	0.00E+00	0.00E+00	3.05E-06	0.00E+00	0.00E+00	4.24E-04
191	ALL	UCART1	491390.3	3620689	NonCancer	0.00E+00	2.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-04	0.00E+00	1.27E-08	0.00E+00	0.00E+00	3.05E-06	0.00E+00	0.00E+00	4.06E-04
192	ALL	UCART1	491400	3620689	NonCancer	0.00E+00	2.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-04	0.00E+00	1.27E-08	0.00E+00	0.00E+00	3.04E-06	0.00E+00	0.00E+00	3.89E-04
193	ALL	UCART1	491409.7	3620689	NonCancer	0.00E+00	2.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-04	0.00E+00	1.24E-08	0.00E+00	0.00E+00	2.98E-06	0.00E+00	0.00E+00	3.71E-04
194	ALL	UCART1	491419.3	3620689	NonCancer	0.00E+00	2.44E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-04	0.00E+00	1.21E-08	0.00E+00	0.00E+00	2.91E-06	0.00E+00	0.00E+00	3.55E-04
195	ALL	UCART1	491429	3620689	NonCancer	0.00E+00	2.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04	0.00E+00	1.16E-08	0.00E+00	0.00E+00	2.80E-06	0.00E+00	0.00E+00	3.35E-04
196	ALL	UCART1	491438.7	3620689	NonCancer	0.00E+00	2.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-04	0.00E+00	1.11E-08	0.00E+00	0.00E+00	2.66E-06	0.00E+00	0.00E+00	3.16E-04
197	ALL	UCART1	491448.4	3620689	NonCancer	0.00E+00	2.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04	0.00E+00	1.05E-08	0.00E+00	0.00E+00	2.52E-06	0.00E+00	0.00E+00	2.97E-04
198	ALL	UCART1	491458.1	3620689	NonCancer	0.00E+00	1.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04	0.00E+00	9.78E-09	0.00E+00	0.00E+00	2.35E-06	0.00E+00	0.00E+00	2.76E-04
199	ALL	UCART1	491467.8	3620689	NonCancer	0.00E+00	1.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04	0.00E+00	9.06E-09	0.00E+00	0.00E+00	2.17E-06	0.00E+00	0.00E+00	2.56E-04
200	ALL	UCART1	491477.5	3620689	NonCancer	0.00E+00	1.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-04	0.00E+00	8.35E-09	0.00E+00	0.00E+00	2.00E-06	0.00E+00	0.00E+00	2.37E-04
201	ALL	UCART1	491487.2	3620689	NonCancer	0.00E+00	1.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04	0.00E+00	7.71E-09	0.00E+00	0.00E+00	1.85E-06	0.00E+00	0.00E+00	2.20E-04
202	ALL	UCART1	491496.9	3620689	NonCancer	0.00E+00	1.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	7.10E-09	0.00E+00	0.00E+00	1.70E-06	0.00E+00	0.00E+00	2.05E-04
203	ALL	UCART1	491506.6	3620689	NonCancer	0.00E+00	1.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04	0.00E+00	6.53E-09	0.00E+00	0.00E+00	1.57E-06	0.00E+00	0.00E+00	1.92E-04
204	ALL	UCART1	491516.2	3620689	NonCancer	0.00E+00	1.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	5.99E-09	0.00E+00	0.00E+00	1.44E-06	0.00E+00	0.00E+00	1.78E-04
205	ALL	UCART1	491525.9	3620689	NonCancer	0.00E+00	1.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04	0.00E+00	5.49E-09	0.00E+00	0.00E+00	1.32E-06	0.00E+00	0.00E+00	1.66E-04
206	ALL	UCART1	491535.6	3620689	NonCancer	0.00E+00	1.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04	0.00E+00	5.08E-09	0.00E+00	0.00E+00	1.22E-06	0.00E+00	0.00E+00	1.57E-04
207	ALL	UCART1	491545.3	3620689	NonCancer	0.00E+00	9.52E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	4.73E-09	0.00E+00	0.00E+00	1.13E-06	0.00E+00	0.00E+00	1.50E-04
208	ALL	UCART1	491555	3620689	NonCancer	0.00E+00	8.87E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	4.40E-09	0.00E+00	0.00E+00	1.06E-06	0.00E+00	0.00E+00	1.42E-04
209	ALL	UCART1	491564.7	3620689	NonCancer	0.00E+00	8.41E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	0.00E+00	4.17E-09	0.00E+00	0.00E+00	1.00E-06	0.00E+00	0.00E+00	1.39E-04
210	ALL	UCART1	491574.4	3620689	NonCancer	0.00E+00	7.97E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	3.96E-09	0.00E+00	0.00E+00	9.50E-07	0.00E+00	0.00E+00	1.34E-04
211	ALL	UCART1	491380.6	3620707	NonCancer	0.00E+00	3.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-04	0.00E+00	1.52E-08	0.00E+00	0.00E+00	3.65E-06	0.00E+00	0.00E+00	4.40E-04
212	ALL	UCART1	491390.3	3620707	NonCancer	0.00E+00	2.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-04	0.00E+00	1.47E-08	0.00E+00	0.00E+00	3.54E-06	0.00E+00	0.00E+00	4.14E-04
213	ALL	UCART1	491400	3620707	NonCancer	0.00E+00	2.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-04	0.00E+00	1.42E-08	0.00E+00	0.00E+00	3.40			

220	ALL	UCART1	491467.8	3620707	NonCancer	0.00E+00	1.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04	0.00E+00	8.24E-09	0.00E+00	0.00E+00	1.98E-06	0.00E+00	0.00E+00	2.33E-04
221	ALL	UCART1	491477.5	3620707	NonCancer	0.00E+00	1.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04	0.00E+00	7.47E-09	0.00E+00	0.00E+00	1.79E-06	0.00E+00	0.00E+00	2.14E-04
222	ALL	UCART1	491487.2	3620707	NonCancer	0.00E+00	1.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04	0.00E+00	6.78E-09	0.00E+00	0.00E+00	1.63E-06	0.00E+00	0.00E+00	1.98E-04
223	ALL	UCART1	491496.9	3620707	NonCancer	0.00E+00	1.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	6.18E-09	0.00E+00	0.00E+00	1.48E-06	0.00E+00	0.00E+00	1.84E-04
224	ALL	UCART1	491506.6	3620707	NonCancer	0.00E+00	1.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04	0.00E+00	5.63E-09	0.00E+00	0.00E+00	1.35E-06	0.00E+00	0.00E+00	1.71E-04
225	ALL	UCART1	491516.2	3620707	NonCancer	0.00E+00	1.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04	0.00E+00	5.13E-09	0.00E+00	0.00E+00	1.23E-06	0.00E+00	0.00E+00	1.59E-04
226	ALL	UCART1	491525.9	3620707	NonCancer	0.00E+00	9.45E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	4.69E-09	0.00E+00	0.00E+00	1.13E-06	0.00E+00	0.00E+00	1.48E-04
227	ALL	UCART1	491535.6	3620707	NonCancer	0.00E+00	8.79E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	4.36E-09	0.00E+00	0.00E+00	1.05E-06	0.00E+00	0.00E+00	1.42E-04
228	ALL	UCART1	491545.3	3620707	NonCancer	0.00E+00	8.20E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	4.07E-09	0.00E+00	0.00E+00	9.77E-07	0.00E+00	0.00E+00	1.36E-04
229	ALL	UCART1	491555	3620707	NonCancer	0.00E+00	7.67E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04	0.00E+00	3.81E-09	0.00E+00	0.00E+00	9.14E-07	0.00E+00	0.00E+00	1.30E-04
230	ALL	UCART1	491564.7	3620707	NonCancer	0.00E+00	7.27E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	3.61E-09	0.00E+00	0.00E+00	8.66E-07	0.00E+00	0.00E+00	1.26E-04
231	ALL	UCART1	491574.4	3620707	NonCancer	0.00E+00	6.94E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	3.45E-09	0.00E+00	0.00E+00	8.27E-07	0.00E+00	0.00E+00	1.23E-04
232	ALL	UCART1	491380.6	3620725	NonCancer	0.00E+00	3.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-04	0.00E+00	1.70E-08	0.00E+00	0.00E+00	4.08E-06	0.00E+00	0.00E+00	4.37E-04
233	ALL	UCART1	491390.3	3620725	NonCancer	0.00E+00	3.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-04	0.00E+00	1.57E-08	0.00E+00	0.00E+00	3.78E-06	0.00E+00	0.00E+00	4.00E-04
234	ALL	UCART1	491400	3620725	NonCancer	0.00E+00	2.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-04	0.00E+00	1.44E-08	0.00E+00	0.00E+00	3.46E-06	0.00E+00	0.00E+00	3.66E-04
235	ALL	UCART1	491409.7	3620725	NonCancer	0.00E+00	2.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-04	0.00E+00	1.32E-08	0.00E+00	0.00E+00	3.16E-06	0.00E+00	0.00E+00	3.39E-04
236	ALL	UCART1	491419.3	3620725	NonCancer	0.00E+00	2.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-04	0.00E+00	1.20E-08	0.00E+00	0.00E+00	2.87E-06	0.00E+00	0.00E+00	3.13E-04
237	ALL	UCART1	491429	3620725	NonCancer	0.00E+00	2.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-04	0.00E+00	1.08E-08	0.00E+00	0.00E+00	2.58E-06	0.00E+00	0.00E+00	2.88E-04
238	ALL	UCART1	491438.7	3620725	NonCancer	0.00E+00	1.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-04	0.00E+00	9.68E-09	0.00E+00	0.00E+00	2.32E-06	0.00E+00	0.00E+00	2.65E-04
239	ALL	UCART1	491448.4	3620725	NonCancer	0.00E+00	1.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04	0.00E+00	8.70E-09	0.00E+00	0.00E+00	2.09E-06	0.00E+00	0.00E+00	2.44E-04
240	ALL	UCART1	491458.1	3620725	NonCancer	0.00E+00	1.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04	0.00E+00	7.78E-09	0.00E+00	0.00E+00	1.87E-06	0.00E+00	0.00E+00	2.23E-04
241	ALL	UCART1	491467.8	3620725	NonCancer	0.00E+00	1.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	6.97E-09	0.00E+00	0.00E+00	1.67E-06	0.00E+00	0.00E+00	2.05E-04
242	ALL	UCART1	491477.5	3620725	NonCancer	0.00E+00	1.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	0.00E+00	6.28E-09	0.00E+00	0.00E+00	1.51E-06	0.00E+00	0.00E+00	1.89E-04
243	ALL	UCART1	491487.2	3620725	NonCancer	0.00E+00	1.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	5.70E-09	0.00E+00	0.00E+00	1.37E-06	0.00E+00	0.00E+00	1.76E-04
244	ALL	UCART1	491496.9	3620725	NonCancer	0.00E+00	1.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	5.18E-09	0.00E+00	0.00E+00	1.24E-06	0.00E+00	0.00E+00	1.63E-04
245	ALL	UCART1	491506.6	3620725	NonCancer	0.00E+00	9.54E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	4.73E-09	0.00E+00	0.00E+00	1.14E-06	0.00E+00	0.00E+00	1.53E-04
246	ALL	UCART1	491516.2	3620725	NonCancer	0.00E+00	8.75E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04	0.00E+00	4.34E-09	0.00E+00	0.00E+00	1.04E-06	0.00E+00	0.00E+00	1.43E-04
247	ALL	UCART1	491525.9	3620725	NonCancer	0.00E+00	8.05E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	4.00E-09	0.00E+00	0.00E+00	9.59E-07	0.00E+00	0.00E+00	1.34E-04
248	ALL	UCART1	491535.6	3620725	NonCancer	0.00E+00	7.52E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	3.73E-09	0.00E+00	0.00E+00	8.96E-07	0.00E+00	0.00E+00	1.29E-04
249	ALL	UCART1	491545.3	3620725	NonCancer	0.00E+00	7.08E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	3.51E-09	0.00E+00	0.00E+00	8.43E-07	0.00E+00	0.00E+00	1.24E-04
250	ALL	UCART1	491555	3620725	NonCancer	0.00E+00	6.71E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	3.33E-09	0.00E+00	0.00E+00	7.99E-07	0.00E+00	0.00E+00	1.20E-04
251	ALL	UCART1	491564.7	3620725	NonCancer	0.00E+00	6.38E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	3.17E-09	0.00E+00	0.00E+00	7.60E-07	0.00E+00	0.00E+00	1.16E-04
252	ALL	UCART1	491574.4	3620725	NonCancer	0.00E+00	6.09E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	3.02E-09	0.00E+00	0.00E+00	7.26E-07	0.00E+00	0.00E+00	1.12E-04
253	ALL	UCART1	491380.6	3620743	NonCancer	0.00E+00	3.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-04	0.00E+00	1.67E-08	0.00E+00	0.00E+00	4.00E-06	0.00E+00	0.00E+00	4.09E-04
254	ALL	UCART1	491390.3	3620743	NonCancer	0.00E+00	2.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-04	0.00E+00	1.46E-08	0.00E+00	0.00E+00	3.51E-06	0.00E+00	0.00E+00	3.64E-04
255	ALL	UCART1	491400	3620743	NonCancer	0.00E+00	2.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-04	0.00E+00	1.29E-08	0.00E+00	0.00E+00	3.09E-06	0.00E+00	0.00E+00	3.26E-04
256	ALL	UCART1	491409.7	3620743	NonCancer	0.00E+00	2.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04	0.00E+00	1.14E-08	0.00E+00	0.00E+00	2.72E-06	0.00E+00	0.00E+00	2.97E-04
257	ALL	UCART1	491419.3	3620743	NonCancer	0.00E+00	2.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04	0.00E+00	1.01E-08	0.00E+00	0.00E+00	2.41E-06	0.00E+00	0.00E+00	2.72E-04
258	ALL	UCART1	491429	3620743	NonCancer	0.00E+00	1.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04	0.00E+00	8.92E-09	0.00E+00	0.00E+00	2.14E-06	0.00E+00	0.00E+00	2.49E-04
259	ALL	UCART1	491438.7	3620743	NonCancer	0.00E+00	1.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04	0.00E+00	7.93E-09	0.00E+00	0.00E+00	1.90E-06	0.00E+00	0.00E+00	2.29E-04
260	ALL	UCART1	491448.4	3620743	NonCancer	0.00E+00	1.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04	0.00E+00	7.09E-09	0.00E+00	0.00E+00	1.70E-06	0.00E+00	0.00E+00	2.11E-04
261	ALL	UCART1	491458.1	3620743	NonCancer	0.00E+00	1.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04	0.00E+00	6.36E-09	0.00E+00	0.00E+00	1.53E-06	0.00E+00	0.00E+00	1.94E-04
262	ALL	UCART1	491467.8	3620743	NonCancer	0.00E+00	1.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04	0.00E+00	5.73E-09	0.00E+00	0.00E+00	1.37E-06	0.00E+00	0.00E+00	1.79E-04
263	ALL	UCART1	491477.5	3620743	NonCancer	0.00E+00	1.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04	0.00E+00	5.18E-09	0.00E+00	0.00E+00	1.24E-06	0.00E+00	0.00E+00	1.66E-04
264	ALL	UCART1	491487.2	3620743	NonCancer	0.00E+00	9.57E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04	0.00E+00	4.75E-09	0.00E+00	0.00E+00	1.14E-06	0.00E+00	0.00E+00	1.56E-04
265	ALL	UCART1	491496.9	3620743	NonCancer	0.00E+00	8.79E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	4.37E-09	0.00E+00	0.00E+00	1.05E-06	0.00E+00	0.00E+00	1.47E-04
266	ALL	UCART1	491506.6	3620743	NonCancer	0.00E+00	8.11E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04	0.00E+00	4.03E-09	0.00E+00	0.00E+00	9.67E-07	0.00E+00	0.00E+00	1.38E-04
267	ALL	UCART1	491516.2	3620743	NonCancer	0.00E+00	7.54E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	3.74E-09	0.00E+00	0.00E+00	8.98E-07	0.00E+00	0.00E+00	1.31E-04
268	ALL	UCART1	491525.9	3620743	NonCancer	0.00E+00	7.01E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	3.48E-09	0.00E+00	0.00E+00				

275 ALL	UCART1	491390.3	3620761	NonCancer	0.00E+00	2.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-04	0.00E+00	1.18E-08	0.00E+00	0.00E+00	2.84E-06	0.00E+00	0.00E+00	3.11E-04
276 ALL	UCART1	491400	3620761	NonCancer	0.00E+00	2.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04	0.00E+00	1.02E-08	0.00E+00	0.00E+00	2.46E-06	0.00E+00	0.00E+00	2.78E-04
277 ALL	UCART1	491409.7	3620761	NonCancer	0.00E+00	1.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04	0.00E+00	8.99E-09	0.00E+00	0.00E+00	2.16E-06	0.00E+00	0.00E+00	2.53E-04
278 ALL	UCART1	491419.3	3620761	NonCancer	0.00E+00	1.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04	0.00E+00	7.95E-09	0.00E+00	0.00E+00	1.91E-06	0.00E+00	0.00E+00	2.32E-04
279 ALL	UCART1	491429	3620761	NonCancer	0.00E+00	1.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04	0.00E+00	7.09E-09	0.00E+00	0.00E+00	1.70E-06	0.00E+00	0.00E+00	2.13E-04
280 ALL	UCART1	491438.7	3620761	NonCancer	0.00E+00	1.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04	0.00E+00	6.36E-09	0.00E+00	0.00E+00	1.53E-06	0.00E+00	0.00E+00	1.97E-04
281 ALL	UCART1	491448.4	3620761	NonCancer	0.00E+00	1.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04	0.00E+00	5.74E-09	0.00E+00	0.00E+00	1.38E-06	0.00E+00	0.00E+00	1.82E-04
282 ALL	UCART1	491458.1	3620761	NonCancer	0.00E+00	1.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	5.21E-09	0.00E+00	0.00E+00	1.25E-06	0.00E+00	0.00E+00	1.69E-04
283 ALL	UCART1	491467.8	3620761	NonCancer	0.00E+00	9.57E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04	0.00E+00	4.75E-09	0.00E+00	0.00E+00	1.14E-06	0.00E+00	0.00E+00	1.58E-04
284 ALL	UCART1	491477.5	3620761	NonCancer	0.00E+00	8.77E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	4.36E-09	0.00E+00	0.00E+00	1.05E-06	0.00E+00	0.00E+00	1.48E-04
285 ALL	UCART1	491487.2	3620761	NonCancer	0.00E+00	8.15E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00	4.04E-09	0.00E+00	0.00E+00	9.70E-07	0.00E+00	0.00E+00	1.40E-04
286 ALL	UCART1	491496.9	3620761	NonCancer	0.00E+00	7.57E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	3.76E-09	0.00E+00	0.00E+00	9.02E-07	0.00E+00	0.00E+00	1.33E-04
287 ALL	UCART1	491506.6	3620761	NonCancer	0.00E+00	7.09E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	3.52E-09	0.00E+00	0.00E+00	8.45E-07	0.00E+00	0.00E+00	1.27E-04
288 ALL	UCART1	491516.2	3620761	NonCancer	0.00E+00	6.66E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	3.31E-09	0.00E+00	0.00E+00	7.94E-07	0.00E+00	0.00E+00	1.21E-04
289 ALL	UCART1	491525.9	3620761	NonCancer	0.00E+00	6.28E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	3.12E-09	0.00E+00	0.00E+00	7.48E-07	0.00E+00	0.00E+00	1.16E-04
290 ALL	UCART1	491535.6	3620761	NonCancer	0.00E+00	5.92E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	2.94E-09	0.00E+00	0.00E+00	7.06E-07	0.00E+00	0.00E+00	1.11E-04
291 ALL	UCART1	491545.3	3620761	NonCancer	0.00E+00	5.60E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	2.78E-09	0.00E+00	0.00E+00	6.67E-07	0.00E+00	0.00E+00	1.06E-04
292 ALL	UCART1	491555	3620761	NonCancer	0.00E+00	5.32E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	2.64E-09	0.00E+00	0.00E+00	6.34E-07	0.00E+00	0.00E+00	1.02E-04
293 ALL	UCART1	491564.7	3620761	NonCancer	0.00E+00	5.11E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.86E-05	0.00E+00	2.54E-09	0.00E+00	0.00E+00	6.09E-07	0.00E+00	0.00E+00	9.86E-05
294 ALL	UCART1	491574.4	3620761	NonCancer	0.00E+00	4.92E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.55E-05	0.00E+00	2.44E-09	0.00E+00	0.00E+00	5.86E-07	0.00E+00	0.00E+00	9.55E-05
295 ALL	UCART1	491380.6	3620779	NonCancer	0.00E+00	2.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-04	0.00E+00	1.06E-08	0.00E+00	0.00E+00	2.55E-06	0.00E+00	0.00E+00	2.98E-04
296 ALL	UCART1	491390.3	3620779	NonCancer	0.00E+00	1.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	9.13E-09	0.00E+00	0.00E+00	2.19E-06	0.00E+00	0.00E+00	2.64E-04
297 ALL	UCART1	491400	3620779	NonCancer	0.00E+00	1.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-04	0.00E+00	7.98E-09	0.00E+00	0.00E+00	1.92E-06	0.00E+00	0.00E+00	2.37E-04
298 ALL	UCART1	491409.7	3620779	NonCancer	0.00E+00	1.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	7.12E-09	0.00E+00	0.00E+00	1.71E-06	0.00E+00	0.00E+00	2.17E-04
299 ALL	UCART1	491419.3	3620779	NonCancer	0.00E+00	1.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04	0.00E+00	6.39E-09	0.00E+00	0.00E+00	1.53E-06	0.00E+00	0.00E+00	2.01E-04
300 ALL	UCART1	491429	3620779	NonCancer	0.00E+00	1.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04	0.00E+00	5.78E-09	0.00E+00	0.00E+00	1.39E-06	0.00E+00	0.00E+00	1.86E-04
301 ALL	UCART1	491438.7	3620779	NonCancer	0.00E+00	1.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	5.27E-09	0.00E+00	0.00E+00	1.26E-06	0.00E+00	0.00E+00	1.73E-04
302 ALL	UCART1	491448.4	3620779	NonCancer	0.00E+00	9.72E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04	0.00E+00	4.83E-09	0.00E+00	0.00E+00	1.16E-06	0.00E+00	0.00E+00	1.62E-04
303 ALL	UCART1	491458.1	3620779	NonCancer	0.00E+00	8.92E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	0.00E+00	4.43E-09	0.00E+00	0.00E+00	1.06E-06	0.00E+00	0.00E+00	1.52E-04
304 ALL	UCART1	491467.8	3620779	NonCancer	0.00E+00	8.25E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04	0.00E+00	4.09E-09	0.00E+00	0.00E+00	9.83E-07	0.00E+00	0.00E+00	1.43E-04
305 ALL	UCART1	491477.5	3620779	NonCancer	0.00E+00	7.65E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	3.80E-09	0.00E+00	0.00E+00	9.12E-07	0.00E+00	0.00E+00	1.35E-04
306 ALL	UCART1	491487.2	3620779	NonCancer	0.00E+00	7.19E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	3.57E-09	0.00E+00	0.00E+00	8.56E-07	0.00E+00	0.00E+00	1.29E-04
307 ALL	UCART1	491496.9	3620779	NonCancer	0.00E+00	6.78E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	3.36E-09	0.00E+00	0.00E+00	8.07E-07	0.00E+00	0.00E+00	1.24E-04
308 ALL	UCART1	491506.6	3620779	NonCancer	0.00E+00	6.39E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	3.17E-09	0.00E+00	0.00E+00	7.61E-07	0.00E+00	0.00E+00	1.19E-04
309 ALL	UCART1	491516.2	3620779	NonCancer	0.00E+00	6.05E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	3.00E-09	0.00E+00	0.00E+00	7.20E-07	0.00E+00	0.00E+00	1.14E-04
310 ALL	UCART1	491525.9	3620779	NonCancer	0.00E+00	5.74E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	2.85E-09	0.00E+00	0.00E+00	6.83E-07	0.00E+00	0.00E+00	1.09E-04
311 ALL	UCART1	491535.6	3620779	NonCancer	0.00E+00	5.42E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	2.69E-09	0.00E+00	0.00E+00	6.46E-07	0.00E+00	0.00E+00	1.04E-04
312 ALL	UCART1	491545.3	3620779	NonCancer	0.00E+00	5.13E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-05	0.00E+00	2.55E-09	0.00E+00	0.00E+00	6.12E-07	0.00E+00	0.00E+00	9.93E-05
313 ALL	UCART1	491555	3620779	NonCancer	0.00E+00	4.89E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.54E-05	0.00E+00	2.43E-09	0.00E+00	0.00E+00	5.82E-07	0.00E+00	0.00E+00	9.54E-05
314 ALL	UCART1	491564.7	3620779	NonCancer	0.00E+00	4.70E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.23E-05	0.00E+00	2.33E-09	0.00E+00	0.00E+00	5.60E-07	0.00E+00	0.00E+00	9.23E-05
315 ALL	UCART1	491574.4	3620779	NonCancer	0.00E+00	4.53E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.92E-05	0.00E+00	2.25E-09	0.00E+00	0.00E+00	5.40E-07	0.00E+00	0.00E+00	8.92E-05
316 ALL	UCART1	491380.6	3620797	NonCancer	0.00E+00	1.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04	0.00E+00	8.12E-09	0.00E+00	0.00E+00	1.95E-06	0.00E+00	0.00E+00	2.54E-04
317 ALL	UCART1	491390.3	3620797	NonCancer	0.00E+00	1.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04	0.00E+00	7.22E-09	0.00E+00	0.00E+00	1.73E-06	0.00E+00	0.00E+00	2.28E-04
318 ALL	UCART1	491400	3620797	NonCancer	0.00E+00	1.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04	0.00E+00	6.55E-09	0.00E+00	0.00E+00	1.57E-06	0.00E+00	0.00E+00	2.07E-04
319 ALL	UCART1	491409.7	3620797	NonCancer	0.00E+00	1.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04	0.00E+00	5.93E-09	0.00E+00	0.00E+00	1.42E-06	0.00E+00	0.00E+00	1.92E-04
320 ALL	UCART1	491419.3	3620797	NonCancer	0.00E+00	1.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	5.40E-09	0.00E+00	0.00E+00	1.30E-06	0.00E+00	0.00E+00	1.78E-04
321 ALL	UCART1	491429	3620797	NonCancer	0.00E+00	9.97E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	0.00E+00	4.95E-09	0.00E+00	0.00E+00	1.19E-06	0.00E+00	0.00E+00	1.67E-04
322 ALL	UCART1	491438.7	3620797	NonCancer	0.00E+00	9.19E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04	0.00E+00	4.56E-09	0.00E+00	0.00E+00	1.09E-06	0.00E+00	0.00E+00	1.57E-04
323 ALL	UCART1	491448.4	3620797	NonCancer	0.00E+00	8.50E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	4.22E-09	0.00E+00	0.00E+00	1.01E-06	0.00E+00	0.00E+00	1.48E-04
324 ALL	UCART1	491458.1	3620797	NonCancer	0.00E+00	7.89E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	0.00E+00	3.92E-09	0.					

330	ALL	UCART1	491516.2	3620797	NonCancer	0.00E+00	5.57E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	2.76E-09	0.00E+00	0.00E+00	6.63E-07	0.00E+00	0.00E+00	1.06E-04
331	ALL	UCART1	491525.9	3620797	NonCancer	0.00E+00	5.29E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	2.63E-09	0.00E+00	0.00E+00	6.31E-07	0.00E+00	0.00E+00	1.02E-04
332	ALL	UCART1	491535.6	3620797	NonCancer	0.00E+00	5.02E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.75E-05	0.00E+00	2.49E-09	0.00E+00	0.00E+00	5.99E-07	0.00E+00	0.00E+00	9.75E-05
333	ALL	UCART1	491545.3	3620797	NonCancer	0.00E+00	4.78E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.33E-05	0.00E+00	2.37E-09	0.00E+00	0.00E+00	5.69E-07	0.00E+00	0.00E+00	9.33E-05
334	ALL	UCART1	491555	3620797	NonCancer	0.00E+00	4.55E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-05	0.00E+00	2.26E-09	0.00E+00	0.00E+00	5.42E-07	0.00E+00	0.00E+00	8.96E-05
335	ALL	UCART1	491564.7	3620797	NonCancer	0.00E+00	4.38E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.65E-05	0.00E+00	2.17E-09	0.00E+00	0.00E+00	5.22E-07	0.00E+00	0.00E+00	8.65E-05
336	ALL	UCART1	491574.4	3620797	NonCancer	0.00E+00	4.23E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-05	0.00E+00	2.10E-09	0.00E+00	0.00E+00	5.04E-07	0.00E+00	0.00E+00	8.37E-05
337	ALL	UCART1	491380.6	3620815	NonCancer	0.00E+00	1.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04	0.00E+00	6.79E-09	0.00E+00	0.00E+00	1.63E-06	0.00E+00	0.00E+00	2.22E-04
338	ALL	UCART1	491390.3	3620815	NonCancer	0.00E+00	1.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04	0.00E+00	6.36E-09	0.00E+00	0.00E+00	1.53E-06	0.00E+00	0.00E+00	2.04E-04
339	ALL	UCART1	491400	3620815	NonCancer	0.00E+00	1.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04	0.00E+00	5.68E-09	0.00E+00	0.00E+00	1.36E-06	0.00E+00	0.00E+00	1.86E-04
340	ALL	UCART1	491409.7	3620815	NonCancer	0.00E+00	1.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04	0.00E+00	5.20E-09	0.00E+00	0.00E+00	1.25E-06	0.00E+00	0.00E+00	1.74E-04
341	ALL	UCART1	491419.3	3620815	NonCancer	0.00E+00	9.62E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	4.77E-09	0.00E+00	0.00E+00	1.15E-06	0.00E+00	0.00E+00	1.63E-04
342	ALL	UCART1	491429	3620815	NonCancer	0.00E+00	8.87E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	4.40E-09	0.00E+00	0.00E+00	1.06E-06	0.00E+00	0.00E+00	1.53E-04
343	ALL	UCART1	491438.7	3620815	NonCancer	0.00E+00	8.23E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04	0.00E+00	4.09E-09	0.00E+00	0.00E+00	9.81E-07	0.00E+00	0.00E+00	1.44E-04
344	ALL	UCART1	491448.4	3620815	NonCancer	0.00E+00	7.67E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	3.81E-09	0.00E+00	0.00E+00	9.14E-07	0.00E+00	0.00E+00	1.36E-04
345	ALL	UCART1	491458.1	3620815	NonCancer	0.00E+00	7.19E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04	0.00E+00	3.57E-09	0.00E+00	0.00E+00	8.56E-07	0.00E+00	0.00E+00	1.30E-04
346	ALL	UCART1	491467.8																	

385	ALL	UCART1	491438.7	3620851	NonCancer	0.00E+00	6.53E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	3.24E-09	0.00E+00	0.00E+00	7.78E-07	0.00E+00	0.00E+00	1.23E-04
386	ALL	UCART1	491448.4	3620851	NonCancer	0.00E+00	6.14E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	3.05E-09	0.00E+00	0.00E+00	7.32E-07	0.00E+00	0.00E+00	1.17E-04
387	ALL	UCART1	491458.1	3620851	NonCancer	0.00E+00	5.79E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	2.88E-09	0.00E+00	0.00E+00	6.90E-07	0.00E+00	0.00E+00	1.12E-04
388	ALL	UCART1	491467.8	3620851	NonCancer	0.00E+00	5.45E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	2.71E-09	0.00E+00	0.00E+00	6.50E-07	0.00E+00	0.00E+00	1.06E-04
389	ALL	UCART1	491477.5	3620851	NonCancer	0.00E+00	5.16E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	2.56E-09	0.00E+00	0.00E+00	6.15E-07	0.00E+00	0.00E+00	1.02E-04
390	ALL	UCART1	491487.2	3620851	NonCancer	0.00E+00	4.90E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.74E-05	0.00E+00	2.43E-09	0.00E+00	0.00E+00	5.83E-07	0.00E+00	0.00E+00	9.74E-05
391	ALL	UCART1	491496.9	3620851	NonCancer	0.00E+00	4.65E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.34E-05	0.00E+00	2.31E-09	0.00E+00	0.00E+00	5.54E-07	0.00E+00	0.00E+00	9.34E-05
392	ALL	UCART1	491506.6	3620851	NonCancer	0.00E+00	4.41E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.94E-05	0.00E+00	2.19E-09	0.00E+00	0.00E+00	5.25E-07	0.00E+00	0.00E+00	8.94E-05
393	ALL	UCART1	491516.2	3620851	NonCancer	0.00E+00	4.17E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.55E-05	0.00E+00	2.07E-09	0.00E+00	0.00E+00	4.97E-07	0.00E+00	0.00E+00	8.55E-05
394	ALL	UCART1	491525.9	3620851	NonCancer	0.00E+00	3.95E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-05	0.00E+00	1.96E-09	0.00E+00	0.00E+00	4.70E-07	0.00E+00	0.00E+00	8.17E-05
395	ALL	UCART1	491535.6	3620851	NonCancer	0.00E+00	3.79E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-05	0.00E+00	1.88E-09	0.00E+00	0.00E+00	4.51E-07	0.00E+00	0.00E+00	7.88E-05
396	ALL	UCART1	491545.3	3620851	NonCancer	0.00E+00	3.65E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.62E-05	0.00E+00	1.81E-09	0.00E+00	0.00E+00	4.35E-07	0.00E+00	0.00E+00	7.62E-05
397	ALL	UCART1	491555	3620851	NonCancer	0.00E+00	3.52E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-05	0.00E+00	1.75E-09	0.00E+00	0.00E+00	4.20E-07	0.00E+00	0.00E+00	7.36E-05
398	ALL	UCART1	491564.7	3620851	NonCancer	0.00E+00	3.37E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.08E-05	0.00E+00	1.67E-09	0.00E+00	0.00E+00	4.01E-07	0.00E+00	0.00E+00	7.08E-05
399	ALL	UCART1	491574.4	3620851	NonCancer	0.00E+00	3.22E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.82E-05	0.00E+00	1.60E-09	0.00E+00	0.00E+00	3.83E-07	0.00E+00	0.00E+00	6.82E-05
400	ALL	UCART1	491380.6	3620869	NonCancer	0.00E+00	9.29E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04	0.00E+00	4.61E-09	0.00E+00	0.00E+00	1.11E-06	0.00E+00	0.00E+00	1.58E-04
401	ALL	UCART1	491390.3	3620869	NonCancer	0.00E+00	8.46E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04	0.00E+00	4.20E-09	0.00E+00	0.00E+00	1.01E-06	0.00E+00	0.00E+00	1.49E-04
402	ALL	UCART1	491400	3620869	NonCancer	0.00E+00	7.79E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00	3.87E-09	0.00E+00	0.00E+00	9.28E-07	0.00E+00	0.00E+00	1.40E-04
403	ALL	UCART1	491409.7	3620869	NonCancer	0.00E+00	7.19E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	3.57E-09	0.00E+00	0.00E+00	8.57E-07	0.00E+00	0.00E+00	1.32E-04
404	ALL	UCART1	491419.3	3620869	NonCancer	0.00E+00	6.67E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	3.31E-09	0.00E+00	0.00E+00	7.94E-07	0.00E+00	0.00E+00	1.25E-04
405	ALL	UCART1	491429	3620869	NonCancer	0.00E+00	6.22E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	3.09E-09	0.00E+00	0.00E+00	7.41E-07	0.00E+00	0.00E+00	1.19E-04
406	ALL	UCART1	491438.7	3620869	NonCancer	0.00E+00	5.85E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	2.90E-09	0.00E+00	0.00E+00	6.97E-07	0.00E+00	0.00E+00	1.13E-04
407	ALL	UCART1	491448.4	3620869	NonCancer	0.00E+00	5.49E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	2.72E-09	0.00E+00	0.00E+00	6.54E-07	0.00E+00	0.00E+00	1.08E-04
408	ALL	UCART1	491458.1	3620869	NonCancer	0.00E+00	5.18E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	2.57E-09	0.00E+00	0.00E+00	6.17E-07	0.00E+00	0.00E+00	1.03E-04
409	ALL	UCART1	491467.8	3620869	NonCancer	0.00E+00	4.89E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.87E-05	0.00E+00	2.43E-09	0.00E+00	0.00E+00	5.82E-07	0.00E+00	0.00E+00	9.87E-05
410	ALL	UCART1	491477.5	3620869	NonCancer	0.00E+00	4.62E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.45E-05	0.00E+00	2.29E-09	0.00E+00	0.00E+00	5.50E-07	0.00E+00	0.00E+00	9.45E-05
411	ALL	UCART1	491487.2	3620869	NonCancer	0.00E+00	4.37E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.04E-05	0.00E+00	2.17E-09	0.00E+00	0.00E+00	5.21E-07	0.00E+00	0.00E+00	9.04E-05
412	ALL	UCART1	491496.9	3620869	NonCancer	0.00E+00	4.14E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.66E-05	0.00E+00	2.06E-09	0.00E+00	0.00E+00	4.94E-07	0.00E+00	0.00E+00	8.66E-05
413	ALL	UCART1	491506.6	3620869	NonCancer	0.00E+00	3.93E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-05	0.00E+00	1.95E-09	0.00E+00	0.00E+00	4.69E-07	0.00E+00	0.00E+00	8.31E-05
414	ALL	UCART1	491516.2	3620869	NonCancer	0.00E+00	3.73E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.96E-05	0.00E+00	1.85E-09	0.00E+00	0.00E+00	4.44E-07	0.00E+00	0.00E+00	7.96E-05
415	ALL	UCART1	491525.9	3620869	NonCancer	0.00E+00	3.55E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-05	0.00E+00	1.76E-09	0.00E+00	0.00E+00	4.23E-07	0.00E+00	0.00E+00	7.65E-05
416	ALL	UCART1	491535.6	3620869	NonCancer	0.00E+00	3.40E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-05	0.00E+00	1.69E-09	0.00E+00	0.00E+00	4.05E-07	0.00E+00	0.00E+00	7.36E-05
417	ALL	UCART1	491545.3	3620869	NonCancer	0.00E+00	3.26E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-05	0.00E+00	1.62E-09	0.00E+00	0.00E+00	3.88E-07	0.00E+00	0.00E+00	7.09E-05
418	ALL	UCART1	491555	3620869	NonCancer	0.00E+00	3.14E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.85E-05	0.00E+00	1.56E-09	0.00E+00	0.00E+00	3.74E-07	0.00E+00	0.00E+00	6.85E-05
419	ALL	UCART1	491564.7	3620869	NonCancer	0.00E+00	3.12E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-05	0.00E+00	1.55E-09	0.00E+00	0.00E+00	3.72E-07	0.00E+00	0.00E+00	6.70E-05
420	ALL	UCART1	491574.4	3620869	NonCancer	0.00E+00	3.02E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-05	0.00E+00	1.50E-09	0.00E+00	0.00E+00	3.60E-07	0.00E+00	0.00E+00	6.50E-05
421	ALL	UCART1	491380.6	3620887	NonCancer	0.00E+00	8.96E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04	0.00E+00	4.45E-09	0.00E+00	0.00E+00	1.07E-06	0.00E+00	0.00E+00	1.51E-04
422	ALL	UCART1	491390.3	3620887	NonCancer	0.00E+00	8.11E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	4.02E-09	0.00E+00	0.00E+00	9.66E-07	0.00E+00	0.00E+00	1.41E-04
423	ALL	UCART1	491400	3620887	NonCancer	0.00E+00	7.52E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	3.74E-09	0.00E+00	0.00E+00	8.96E-07	0.00E+00	0.00E+00	1.33E-04
424	ALL	UCART1	491409.7	3620887	NonCancer	0.00E+00	7.14E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	3.55E-09	0.00E+00	0.00E+00	8.51E-07	0.00E+00	0.00E+00	1.27E-04
425	ALL	UCART1	491419.3	3620887	NonCancer	0.00E+00	6.55E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	3.25E-09	0.00E+00	0.00E+00	7.80E-07	0.00E+00	0.00E+00	1.19E-04
426	ALL	UCART1	491429	3620887	NonCancer	0.00E+00	6.12E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	3.04E-09	0.00E+00	0.00E+00	7.29E-07	0.00E+00	0.00E+00	1.13E-04
427	ALL	UCART1	491438.7	3620887	NonCancer	0.00E+00	5.77E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	2.87E-09	0.00E+00	0.00E+00	6.88E-07	0.00E+00	0.00E+00	1.08E-04
428	ALL	UCART1	491448.4	3620887	NonCancer	0.00E+00	5.30E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	2.63E-09	0.00E+00	0.00E+00	6.31E-07	0.00E+00	0.00E+00	1.02E-04
429	ALL	UCART1	491458.1	3620887	NonCancer	0.00E+00	5.02E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.81E-05	0.00E+00	2.49E-09	0.00E+00	0.00E+00	5.98E-07	0.00E+00	0.00E+00	9.81E-05
430	ALL	UCART1	491467.8	3620887	NonCancer	0.00E+00	4.68E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.36E-05	0.00E+00	2.32E-09	0.00E+00	0.00E+00	5.57E-07	0.00E+00	0.00E+00	9.36E-05
431	ALL	UCART1	491477.5	3620887	NonCancer	0.00E+00	4.39E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.95E-05	0.00E+00	2.18E-09	0.00E+00	0.00E+00	5.23E-07	0.00E+00	0.00E+00	8.95E-05
432	ALL	UCART1	491487.2	3620887	NonCancer	0.00E+00	4.11E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.55E-05	0.00E+00	2.04E-09	0.00E+00	0.00E+00	4.90E-07	0.00E+00	0.00E+00	8.55E-05
433	ALL	UCART1	491496.9	3620887	NonCancer	0.00E+00	3.87E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.19E-05	0.00E+00	1.92E-09	0.00E+00	0.00E+00				

440	ALL	UCART1	491564.7	3620887	NonCancer	0.00E+00	3.15E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.42E-05	0.00E+00	1.56E-09	0.00E+00	0.00E+00	3.75E-07	0.00E+00	0.00E+00	6.42E-05
441	ALL	UCART1	491574.4	3620887	NonCancer	0.00E+00	3.26E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-05	0.00E+00	1.62E-09	0.00E+00	0.00E+00	3.89E-07	0.00E+00	0.00E+00	6.25E-05
442	ALL		490849.2	3620945	NonCancer	0.00E+00	1.65E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-05	0.00E+00	8.17E-10	0.00E+00	0.00E+00	1.96E-07	0.00E+00	0.00E+00	3.00E-05
443	ALL		490856.4	3620922	NonCancer	0.00E+00	1.97E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-05	0.00E+00	9.76E-10	0.00E+00	0.00E+00	2.34E-07	0.00E+00	0.00E+00	3.34E-05
444	ALL		490865.9	3620906	NonCancer	0.00E+00	2.22E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05	0.00E+00	1.10E-09	0.00E+00	0.00E+00	2.64E-07	0.00E+00	0.00E+00	3.71E-05
445	ALL		490894.3	3620929	NonCancer	0.00E+00	1.96E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-05	0.00E+00	9.73E-10	0.00E+00	0.00E+00	2.33E-07	0.00E+00	0.00E+00	3.36E-05
446	ALL		490890	3620953	NonCancer	0.00E+00	1.69E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-05	0.00E+00	8.39E-10	0.00E+00	0.00E+00	2.01E-07	0.00E+00	0.00E+00	3.07E-05
447	ALL		490887.8	3620979	NonCancer	0.00E+00	1.49E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05	0.00E+00	7.39E-10	0.00E+00	0.00E+00	1.77E-07	0.00E+00	0.00E+00	2.78E-05
448	ALL		490903.1	3620989	NonCancer	0.00E+00	1.41E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05	0.00E+00	7.00E-10	0.00E+00	0.00E+00	1.68E-07	0.00E+00	0.00E+00	2.67E-05
449	ALL		490912.6	3621006	NonCancer	0.00E+00	1.30E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05	0.00E+00	6.47E-10	0.00E+00	0.00E+00	1.55E-07	0.00E+00	0.00E+00	2.48E-05
450	ALL		490923.5	3621026	NonCancer	0.00E+00	1.24E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05	0.00E+00	6.17E-10	0.00E+00	0.00E+00	1.48E-07	0.00E+00	0.00E+00	2.32E-05
451	ALL		490929.3	3621045	NonCancer	0.00E+00	1.17E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	5.82E-10	0.00E+00	0.00E+00	1.40E-07	0.00E+00	0.00E+00	2.23E-05
452	ALL		490936.6	3621069	NonCancer	0.00E+00	1.05E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	5.24E-10	0.00E+00	0.00E+00	1.26E-07	0.00E+00	0.00E+00	2.30E-05
453	ALL		490956.3	3621064	NonCancer	0.00E+00	1.08E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05	0.00E+00	5.36E-10	0.00E+00	0.00E+00	1.29E-07	0.00E+00	0.00E+00	2.51E-05
454	ALL		490973.1	3621065	NonCancer	0.00E+00	1.11E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05	0.00E+00	5.49E-10	0.00E+00	0.00E+00	1.32E-07	0.00E+00	0.00E+00	2.83E-05
455	ALL		490990.5	3621069	NonCancer	0.00E+00	1.19E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-05	0.00E+00	5.90E-10	0.00E+00	0.00E+00	1.42E-07	0.00E+00	0.00E+00	3.37E-05
456	ALL		491008	3621067	NonCancer	0.00E+00	1.38E-10	0.00E+00</												

495	ALL	491263.8	3620977	NonCancer	0.00E+00	1.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-04	0.00E+00	9.14E-09	0.00E+00	0.00E+00	2.19E-06	0.00E+00	0.00E+00	5.25E-04
496	ALL	491270.4	3620988	NonCancer	0.00E+00	1.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-04	0.00E+00	8.00E-09	0.00E+00	0.00E+00	1.92E-06	0.00E+00	0.00E+00	4.96E-04
497	ALL	491295.2	3620975	NonCancer	0.00E+00	1.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-04	0.00E+00	8.60E-09	0.00E+00	0.00E+00	2.06E-06	0.00E+00	0.00E+00	4.46E-04
498	ALL	491246.4	3621010	NonCancer	0.00E+00	1.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-04	0.00E+00	7.09E-09	0.00E+00	0.00E+00	1.70E-06	0.00E+00	0.00E+00	6.23E-04
499	ALL	491256.6	3621026	NonCancer	0.00E+00	1.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-04	0.00E+00	6.56E-09	0.00E+00	0.00E+00	1.58E-06	0.00E+00	0.00E+00	6.09E-04
500	ALL	491263.1	3621036	NonCancer	0.00E+00	1.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-04	0.00E+00	6.06E-09	0.00E+00	0.00E+00	1.45E-06	0.00E+00	0.00E+00	5.92E-04
501	ALL	491271.1	3621049	NonCancer	0.00E+00	1.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-04	0.00E+00	5.55E-09	0.00E+00	0.00E+00	1.33E-06	0.00E+00	0.00E+00	5.74E-04
502	ALL	491300.3	3621035	NonCancer	0.00E+00	1.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-04	0.00E+00	5.62E-09	0.00E+00	0.00E+00	1.35E-06	0.00E+00	0.00E+00	4.18E-04
503	ALL	491290.8	3621020	NonCancer	0.00E+00	1.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-04	0.00E+00	6.00E-09	0.00E+00	0.00E+00	1.44E-06	0.00E+00	0.00E+00	4.37E-04
504	ALL	491285	3621009	NonCancer	0.00E+00	1.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-04	0.00E+00	6.45E-09	0.00E+00	0.00E+00	1.55E-06	0.00E+00	0.00E+00	4.52E-04
505	ALL	491278.4	3620999	NonCancer	0.00E+00	1.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-04	0.00E+00	7.29E-09	0.00E+00	0.00E+00	1.75E-06	0.00E+00	0.00E+00	4.74E-04
506	ALL	491299.6	3620986	NonCancer	0.00E+00	1.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-04	0.00E+00	7.82E-09	0.00E+00	0.00E+00	1.88E-06	0.00E+00	0.00E+00	4.29E-04
507	ALL	491303.9	3620996	NonCancer	0.00E+00	1.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-04	0.00E+00	7.23E-09	0.00E+00	0.00E+00	1.73E-06	0.00E+00	0.00E+00	4.14E-04
508	ALL	491313.4	3621011	NonCancer	0.00E+00	1.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-04	0.00E+00	6.37E-09	0.00E+00	0.00E+00	1.53E-06	0.00E+00	0.00E+00	3.85E-04
509	ALL	491320	3621019	NonCancer	0.00E+00	1.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-04	0.00E+00	5.88E-09	0.00E+00	0.00E+00	1.41E-06	0.00E+00	0.00E+00	3.64E-04
510	ALL	491308.3	3620822	NonCancer	0.00E+00	3.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-04	0.00E+00	1.90E-08	0.00E+00	0.00E+00	4.57E-06	0.00E+00	0.00E+00	4.51E-04
511	ALL	491306.8	3620803	NonCancer	0.00E+00	5.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-04	0.00E+00	2.90E-0						

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE	RESP	SKIN	EYE	BONE/TEET	ENDO	BLOOD	ODOR	GENERAL	MAXHI
1	ALL	UCART1	491380.6	3620526	NonCancer	0.00E+00	2.92E-08	9.24E-06	0.00E+00	0.00E+00	9.24E-06	2.92E-08	0.00E+00	2.92E-08	0.00E+00	0.00E+00	9.24E-06	0.00E+00	0.00E+00	9.24E-06
2	ALL	UCART1	491390.3	3620526	NonCancer	0.00E+00	3.13E-08	9.93E-06	0.00E+00	0.00E+00	9.93E-06	3.13E-08	0.00E+00	3.13E-08	0.00E+00	0.00E+00	9.93E-06	0.00E+00	0.00E+00	9.93E-06
3	ALL	UCART1	491400	3620526	NonCancer	0.00E+00	3.18E-08	1.01E-05	0.00E+00	0.00E+00	1.01E-05	3.18E-08	0.00E+00	3.18E-08	0.00E+00	0.00E+00	1.01E-05	0.00E+00	0.00E+00	1.01E-05
4	ALL	UCART1	491409.7	3620526	NonCancer	0.00E+00	3.01E-08	9.53E-06	0.00E+00	0.00E+00	9.53E-06	3.01E-08	0.00E+00	3.01E-08	0.00E+00	0.00E+00	9.53E-06	0.00E+00	0.00E+00	9.53E-06
5	ALL	UCART1	491419.3	3620526	NonCancer	0.00E+00	2.79E-08	8.85E-06	0.00E+00	0.00E+00	8.85E-06	2.79E-08	0.00E+00	2.79E-08	0.00E+00	0.00E+00	8.85E-06	0.00E+00	0.00E+00	8.85E-06
6	ALL	UCART1	491429	3620526	NonCancer	0.00E+00	2.44E-08	7.73E-06	0.00E+00	0.00E+00	7.73E-06	2.44E-08	0.00E+00	2.44E-08	0.00E+00	0.00E+00	7.73E-06	0.00E+00	0.00E+00	7.73E-06
7	ALL	UCART1	491438.7	3620526	NonCancer	0.00E+00	1.61E-08	5.10E-06	0.00E+00	0.00E+00	5.10E-06	1.61E-08	0.00E+00	1.61E-08	0.00E+00	0.00E+00	5.10E-06	0.00E+00	0.00E+00	5.10E-06
8	ALL	UCART1	491448.4	3620526	NonCancer	0.00E+00	1.52E-08	4.82E-06	0.00E+00	0.00E+00	4.82E-06	1.52E-08	0.00E+00	1.52E-08	0.00E+00	0.00E+00	4.82E-06	0.00E+00	0.00E+00	4.82E-06
9	ALL	UCART1	491458.1	3620526	NonCancer	0.00E+00	1.53E-08	4.84E-06	0.00E+00	0.00E+00	4.84E-06	1.53E-08	0.00E+00	1.53E-08	0.00E+00	0.00E+00	4.84E-06	0.00E+00	0.00E+00	4.84E-06
10	ALL	UCART1	491467.8	3620526	NonCancer	0.00E+00	1.50E-08	4.75E-06	0.00E+00	0.00E+00	4.75E-06	1.50E-08	0.00E+00	1.50E-08	0.00E+00	0.00E+00	4.75E-06	0.00E+00	0.00E+00	4.75E-06
11	ALL	UCART1	491477.5	3620526	NonCancer	0.00E+00	1.46E-08	4.62E-06	0.00E+00	0.00E+00	4.62E-06	1.46E-08	0.00E+00	1.46E-08	0.00E+00	0.00E+00	4.62E-06	0.00E+00	0.00E+00	4.62E-06
12	ALL	UCART1	491487.2	3620526	NonCancer	0.00E+00	1.38E-08	4.38E-06	0.00E+00	0.00E+00	4.38E-06	1.38E-08	0.00E+00	1.38E-08	0.00E+00	0.00E+00	4.38E-06	0.00E+00	0.00E+00	4.38E-06
13	ALL	UCART1	491496.9	3620526	NonCancer	0.00E+00	1.41E-08	4.47E-06	0.00E+00	0.00E+00	4.47E-06	1.41E-08	0.00E+00	1.41E-08	0.00E+00	0.00E+00	4.47E-06	0.00E+00	0.00E+00	4.47E-06
14	ALL	UCART1	491506.6	3620526	NonCancer	0.00E+00	1.36E-08	4.31E-06	0.00E+00	0.00E+00	4.31E-06	1.36E-08	0.00E+00	1.36E-08	0.00E+00	0.00E+00	4.31E-06	0.00E+00	0.00E+00	4.31E-06
15	ALL	UCART1	491516.2	3620526	NonCancer	0.00E+00	1.31E-08	4.16E-06	0.00E+00	0.00E+00	4.16E-06	1.31E-08	0.00E+00	1.31E-08	0.00E+00	0.00E+00	4.16E-06	0.00E+00	0.00E+00	4.16E-06
16	ALL	UCART1	491525.9	3620526	NonCancer	0.00E+00	1.28E-08	4.06E-06	0.00E+00	0.00E+00	4.06E-06	1.28E-08	0.00E+00	1.28E-08	0.00E+00	0.00E+00	4.06E-06	0.00E+00	0.00E+00	4.06E-06
17	ALL	UCART1	491535.6	3620526	NonCancer	0.00E+00	1.32E-08	4.18E-06	0.00E+00	0.00E+00	4.18E-06	1.32E-08	0.00E+00	1.32E-08	0.00E+00	0.00E+00	4.18E-06	0.00E+00	0.00E+00	4.18E-06
18	ALL	UCART1	491545.3	3620526	NonCancer	0.00E+00	1.27E-08	4.03E-06	0.00E+00	0.00E+00	4.03E-06	1.27E-08	0.00E+00	1.27E-08	0.00E+00	0.00E+00	4.03E-06	0.00E+00	0.00E+00	4.03E-06
19	ALL	UCART1	491555	3620526	NonCancer	0.00E+00	1.28E-08	4.05E-06	0.00E+00	0.00E+00	4.05E-06	1.28E-08	0.00E+00	1.28E-08	0.00E+00	0.00E+00	4.05E-06	0.00E+00	0.00E+00	4.05E-06
20	ALL	UCART1	491564.7	3620526	NonCancer	0.00E+00	1.26E-08	3.99E-06	0.00E+00	0.00E+00	3.99E-06	1.26E-08	0.00E+00	1.26E-08	0.00E+00	0.00E+00	3.99E-06	0.00E+00	0.00E+00	3.99E-06
21	ALL	UCART1	491574.4	3620526	NonCancer	0.00E+00	1.17E-08	3.72E-06	0.00E+00	0.00E+00	3.72E-06	1.17E-08	0.00E+00	1.17E-08	0.00E+00	0.00E+00	3.72E-06	0.00E+00	0.00E+00	3.72E-06
22	ALL	UCART1	491380.6	3620544	NonCancer	0.00E+00	3.30E-08	1.04E-05	0.00E+00	0.00E+00	1.04E-05	3.30E-08	0.00E+00	3.30E-08	0.00E+00	0.00E+00	1.04E-05	0.00E+00	0.00E+00	1.04E-05
23	ALL	UCART1	491390.3	3620544	NonCancer	0.00E+00	3.31E-08	1.05E-05	0.00E+00	0.00E+00	1.05E-05	3.31E-08	0.00E+00	3.31E-08	0.00E+00	0.00E+00	1.05E-05	0.00E+00	0.00E+00	1.05E-05
24	ALL	UCART1	491400	3620544	NonCancer	0.00E+00	3.07E-08	9.73E-06	0.00E+00	0.00E+00	9.73E-06	3.07E-08	0.00E+00	3.07E-08	0.00E+00	0.00E+00	9.73E-06	0.00E+00	0.00E+00	9.73E-06
25	ALL	UCART1	491409.7	3620544	NonCancer	0.00E+00	2.82E-08	8.93E-06	0.00E+00	0.00E+00	8.93E-06	2.82E-08	0.00E+00	2.82E-08	0.00E+00	0.00E+00	8.93E-06	0.00E+00	0.00E+00	8.93E-06
26	ALL	UCART1	491419.3	3620544	NonCancer	0.00E+00	1.90E-08	6.02E-06	0.00E+00	0.00E+00	6.02E-06	1.90E-08	0.00E+00	1.90E-08	0.00E+00	0.00E+00	6.02E-06	0.00E+00	0.00E+00	6.02E-06
27	ALL	UCART1	491429	3620544	NonCancer	0.00E+00	1.71E-08	5.41E-06	0.00E+00	0.00E+00	5.41E-06	1.71E-08	0.00E+00	1.71E-08	0.00E+00	0.00E+00	5.41E-06	0.00E+00	0.00E+00	5.41E-06
28	ALL	UCART1	491438.7	3620544	NonCancer	0.00E+00	1.66E-08	5.25E-06	0.00E+00	0.00E+00	5.25E-06	1.66E-08	0.00E+00	1.66E-08	0.00E+00	0.00E+00	5.25E-06	0.00E+00	0.00E+00	5.25E-06
29	ALL	UCART1	491448.4	3620544	NonCancer	0.00E+00	1.63E-08	5.17E-06	0.00E+00	0.00E+00	5.17E-06	1.63E-08	0.00E+00	1.63E-08	0.00E+00	0.00E+00	5.17E-06	0.00E+00	0.00E+00	5.17E-06
30	ALL	UCART1	491458.1	3620544	NonCancer	0.00E+00	1.59E-08	5.03E-06	0.00E+00	0.00E+00	5.03E-06	1.59E-08	0.00E+00	1.59E-08	0.00E+00	0.00E+00	5.03E-06	0.00E+00	0.00E+00	5.03E-06
31	ALL	UCART1	491467.8	3620544	NonCancer	0.00E+00	1.52E-08	4.81E-06	0.00E+00	0.00E+00	4.81E-06	1.52E-08	0.00E+00	1.52E-08	0.00E+00	0.00E+00	4.81E-06	0.00E+00	0.00E+00	4.81E-06
32	ALL	UCART1	491477.5	3620544	NonCancer	0.00E+00	1.53E-08	4.86E-06	0.00E+00	0.00E+00	4.86E-06	1.53E-08	0.00E+00	1.53E-08	0.00E+00	0.00E+00	4.86E-06	0.00E+00	0.00E+00	4.86E-06
33	ALL	UCART1	491487.2	3620544	NonCancer	0.00E+00	1.48E-08	4.71E-06	0.00E+00	0.00E+00	4.71E-06	1.48E-08	0.00E+00	1.48E-08	0.00E+00	0.00E+00	4.71E-06	0.00E+00	0.00E+00	4.71E-06
34	ALL	UCART1	491496.9	3620544	NonCancer	0.00E+00	1.45E-08	4.60E-06	0.00E+00	0.00E+00	4.60E-06	1.45E-08	0.00E+00	1.45E-08	0.00E+00	0.00E+00	4.60E-06	0.00E+00	0.00E+00	4.60E-06
35	ALL	UCART1	491506.6	3620544	NonCancer	0.00E+00	1.41E-08	4.46E-06	0.00E+00	0.00E+00	4.46E-06	1.41E-08	0.00E+00	1.41E-08	0.00E+00	0.00E+00	4.46E-06	0.00E+00	0.00E+00	4.46E-06
36	ALL	UCART1	491516.2	3620544	NonCancer	0.00E+00	1.45E-08	4.60E-06	0.00E+00	0.00E+00	4.60E-06	1.45E-08	0.00E+00	1.45E-08	0.00E+00	0.00E+00	4.60E-06	0.00E+00	0.00E+00	4.60E-06
37	ALL	UCART1	491525.9	3620544	NonCancer	0.00E+00	1.39E-08	4.41E-06	0.00E+00	0.00E+00	4.41E-06	1.39E-08	0.00E+00	1.39E-08	0.00E+00	0.00E+00	4.41E-06	0.00E+00	0.00E+00	4.41E-06
38	ALL	UCART1	491535.6	3620544	NonCancer	0.00E+00	1.40E-08	4.43E-06	0.00E+00	0.00E+00	4.43E-06	1.40E-08	0.00E+00	1.40E-08	0.00E+00	0.00E+00	4.43E-06	0.00E+00	0.00E+00	4.43E-06
39	ALL	UCART1	491545.3	3620544	NonCancer	0.00E+00	1.36E-08	4.31E-06	0.00E+00	0.00E+00	4.31E-06	1.36E-08	0.00E+00	1.36E-08	0.00E+00	0.00E+00	4.31E-06	0.00E+00	0.00E+00	4.31E-06
40	ALL	UCART1	491555	3620544	NonCancer	0.00E+00	1.25E-08	3.97E-06	0.00E+00	0.00E+00	3.97E-06	1.25E-08	0.00E+00	1.25E-08	0.00E+00	0.00E+00	3.97E-06	0.00E+00	0.00E+00	3.97E-06
41	ALL	UCART1	491564.7	3620544	NonCancer	0.00E+00	1.21E-08	3.84E-06	0.00E+00	0.00E+00	3.84E-06	1.21E-08	0.00E+00	1.21E-08	0.00E+00	0.00E+00	3.84E-06	0.00E+00	0.00E+00	3.84E-06
42	ALL	UCART1	491574.4	3620544	NonCancer	0.00E+00	1.15E-08	3.66E-06	0.00E+00	0.00E+00	3.66E-06	1.15E-08	0.00E+00	1.15E-08	0.00E+00	0.00E+00	3.66E-06	0.00E+00	0.00E+00	3.66E-06
43	ALL	UCART1	491380.6	3620562	NonCancer	0.00E+00	3.40E-08	1.08E-05	0.00E+00	0.00E+00	1.08E-05	3.40E-08	0.00E+00	3.40E-08	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	1.08E-05
44	ALL	UCART1	491390.3	3620562	NonCancer	0.00E+00	3.12E-08	9.90E-06	0.00E+00	0.00E+00	9.90E-06	3.12E-08	0.00E+00	3.12E-08	0.00E+00	0.00E+00	9.90E-06	0.00E+00	0.00E+00	9.90E-06
45	ALL	UCART1	491400	3620562	NonCancer	0.00E+00	2.81E-08	8.91E-06	0.00E+00	0.00E+00	8.91E-06	2.81E-08	0.00E+00	2.81E-08	0.00E+00	0.00E+00	8.91E-06	0.00E+00	0.00E+00	8.91E-06
46	ALL	UCART1	491409.7	3620562	NonCancer	0.00E+00	1.90E-08	6.04E-06	0.00E+00	0.00E+00	6.04E-06	1.90E-08	0.00E+00	1.90E-08	0.00E+00	0.00E+00	6.04E-06	0.00E+00	0.00E+00	6.04E-06
47	ALL	UCART1	491419.3	3620562	NonCancer	0.00E+00	1.81E-08	5.74E-06	0.00E+00	0.00E+00	5.74E-06	1.81E-08	0.00E+00	1.81E-08	0.00E+00	0.00E+00	5.74E-06	0.00E+00	0.00E+00	5.74E-06
48	ALL	UCART1	491429	3620562	NonCancer	0.00E+00	1.80E-08	5.69E-06	0.00E+00	0.00E+00	5.69E-06	1.80E-08	0.00E+00	1.80E-08	0.00E+00	0.00E+00	5.69E-06	0.00E+00	0.00E+00	5.69E-06
49	ALL	UCART1	491438.7	3620562	NonCancer	0.00E+00	1.76E-08	5.59E-06												

55 ALL	UCART1	491496.9	3620562	NonCancer	0.00E+00	1.56E-08	4.96E-06	0.00E+00	0.00E+00	4.96E-06	1.56E-08	0.00E+00	1.56E-08	0.00E+00	0.00E+00	4.96E-06	0.00E+00	0.00E+00	4.96E-06
56 ALL	UCART1	491506.6	3620562	NonCancer	0.00E+00	1.50E-08	4.76E-06	0.00E+00	0.00E+00	4.76E-06	1.50E-08	0.00E+00	1.50E-08	0.00E+00	0.00E+00	4.76E-06	0.00E+00	0.00E+00	4.76E-06
57 ALL	UCART1	491516.2	3620562	NonCancer	0.00E+00	1.51E-08	4.80E-06	0.00E+00	0.00E+00	4.80E-06	1.51E-08	0.00E+00	1.51E-08	0.00E+00	0.00E+00	4.80E-06	0.00E+00	0.00E+00	4.80E-06
58 ALL	UCART1	491525.9	3620562	NonCancer	0.00E+00	1.47E-08	4.65E-06	0.00E+00	0.00E+00	4.65E-06	1.47E-08	0.00E+00	1.47E-08	0.00E+00	0.00E+00	4.65E-06	0.00E+00	0.00E+00	4.65E-06
59 ALL	UCART1	491535.6	3620562	NonCancer	0.00E+00	1.34E-08	4.24E-06	0.00E+00	0.00E+00	4.24E-06	1.34E-08	0.00E+00	1.34E-08	0.00E+00	0.00E+00	4.24E-06	0.00E+00	0.00E+00	4.24E-06
60 ALL	UCART1	491545.3	3620562	NonCancer	0.00E+00	1.31E-08	4.15E-06	0.00E+00	0.00E+00	4.15E-06	1.31E-08	0.00E+00	1.31E-08	0.00E+00	0.00E+00	4.15E-06	0.00E+00	0.00E+00	4.15E-06
61 ALL	UCART1	491555	3620562	NonCancer	0.00E+00	1.25E-08	3.98E-06	0.00E+00	0.00E+00	3.98E-06	1.25E-08	0.00E+00	1.25E-08	0.00E+00	0.00E+00	3.98E-06	0.00E+00	0.00E+00	3.98E-06
62 ALL	UCART1	491564.7	3620562	NonCancer	0.00E+00	1.22E-08	3.88E-06	0.00E+00	0.00E+00	3.88E-06	1.22E-08	0.00E+00	1.22E-08	0.00E+00	0.00E+00	3.88E-06	0.00E+00	0.00E+00	3.88E-06
63 ALL	UCART1	491574.4	3620562	NonCancer	0.00E+00	1.18E-08	3.75E-06	0.00E+00	0.00E+00	3.75E-06	1.18E-08	0.00E+00	1.18E-08	0.00E+00	0.00E+00	3.75E-06	0.00E+00	0.00E+00	3.75E-06
64 ALL	UCART1	491580.6	3620580	NonCancer	0.00E+00	3.22E-08	1.02E-05	0.00E+00	0.00E+00	1.02E-05	3.22E-08	0.00E+00	3.22E-08	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	1.02E-05
65 ALL	UCART1	491390.3	3620580	NonCancer	0.00E+00	2.82E-08	8.94E-06	0.00E+00	0.00E+00	8.94E-06	2.82E-08	0.00E+00	2.82E-08	0.00E+00	0.00E+00	8.94E-06	0.00E+00	0.00E+00	8.94E-06
66 ALL	UCART1	491400	3620580	NonCancer	0.00E+00	2.00E-08	6.34E-06	0.00E+00	0.00E+00	6.34E-06	2.00E-08	0.00E+00	2.00E-08	0.00E+00	0.00E+00	6.34E-06	0.00E+00	0.00E+00	6.34E-06
67 ALL	UCART1	491409.7	3620580	NonCancer	0.00E+00	1.94E-08	6.16E-06	0.00E+00	0.00E+00	6.16E-06	1.94E-08	0.00E+00	1.94E-08	0.00E+00	0.00E+00	6.16E-06	0.00E+00	0.00E+00	6.16E-06
68 ALL	UCART1	491419.3	3620580	NonCancer	0.00E+00	1.93E-08	6.11E-06	0.00E+00	0.00E+00	6.11E-06	1.93E-08	0.00E+00	1.93E-08	0.00E+00	0.00E+00	6.11E-06	0.00E+00	0.00E+00	6.11E-06
69 ALL	UCART1	491429	3620580	NonCancer	0.00E+00	1.87E-08	5.92E-06	0.00E+00	0.00E+00	5.92E-06	1.87E-08	0.00E+00	1.87E-08	0.00E+00	0.00E+00	5.92E-06	0.00E+00	0.00E+00	5.92E-06
70 ALL	UCART1	491438.7	3620580	NonCancer	0.00E+00	1.77E-08	5.62E-06	0.00E+00	0.00E+00	5.62E-06	1.77E-08	0.00E+00	1.77E-08	0.00E+00	0.00E+00	5.62E-06	0.00E+00	0.00E+00	5.62E-06
71 ALL	UCART1	491448.4	3620580	NonCancer	0.00E+00	1.77E-08	5.62E-06	0.00E+00	0.00E+00	5.62E-06	1.77E-08	0.00E+00	1.77E-08	0.00E+00	0.00E+00	5.62E-06	0.00E+00	0.00E+00	5.62E-06
72 ALL	UCART1	491458.1	3620580	NonCancer	0.00E+00	1.68E-08	5.32E-06	0.00E+00	0.00E+00	5.32E-06	1.68E-08	0.00E+00	1.68E-08	0.00E+00	0.00E+00	5.32E-06	0.00E+00	0.00E+00	5.32E-06
73 ALL	UCART1	491467.8	3620580	NonCancer	0.00E+00	1.63E-08	5.16E-06	0.00E+00	0.00E+00	5.16E-06	1.63E-08	0.00E+00	1.63E-08	0.00E+00	0.00E+00	5.16E-06	0.00E+00	0.00E+00	5.16E-06
74 ALL	UCART1	491477.5	3620580	NonCancer	0.00E+00	1.68E-08	5.32E-06	0.00E+00	0.00E+00	5.32E-06	1.68E-08	0.00E+00	1.68E-08	0.00E+00	0.00E+00	5.32E-06	0.00E+00	0.00E+00	5.32E-06
75 ALL	UCART1	491487.2	3620580	NonCancer	0.00E+00	1.61E-08	5.11E-06	0.00E+00	0.00E+00	5.11E-06	1.61E-08	0.00E+00	1.61E-08	0.00E+00	0.00E+00	5.11E-06	0.00E+00	0.00E+00	5.11E-06
76 ALL	UCART1	491496.9	3620580	NonCancer	0.00E+00	1.64E-08	5.20E-06	0.00E+00	0.00E+00	5.20E-06	1.64E-08	0.00E+00	1.64E-08	0.00E+00	0.00E+00	5.20E-06	0.00E+00	0.00E+00	5.20E-06
77 ALL	UCART1	491506.6	3620580	NonCancer	0.00E+00	1.58E-08	5.00E-06	0.00E+00	0.00E+00	5.00E-06	1.58E-08	0.00E+00	1.58E-08	0.00E+00	0.00E+00	5.00E-06	0.00E+00	0.00E+00	5.00E-06
78 ALL	UCART1	491516.2	3620580	NonCancer	0.00E+00	1.46E-08	4.64E-06	0.00E+00	0.00E+00	4.64E-06	1.46E-08	0.00E+00	1.46E-08	0.00E+00	0.00E+00	4.64E-06	0.00E+00	0.00E+00	4.64E-06
79 ALL	UCART1	491525.9	3620580	NonCancer	0.00E+00	1.41E-08	4.47E-06	0.00E+00	0.00E+00	4.47E-06	1.41E-08	0.00E+00	1.41E-08	0.00E+00	0.00E+00	4.47E-06	0.00E+00	0.00E+00	4.47E-06
80 ALL	UCART1	491535.6	3620580	NonCancer	0.00E+00	1.35E-08	4.29E-06	0.00E+00	0.00E+00	4.29E-06	1.35E-08	0.00E+00	1.35E-08	0.00E+00	0.00E+00	4.29E-06	0.00E+00	0.00E+00	4.29E-06
81 ALL	UCART1	491545.3	3620580	NonCancer	0.00E+00	1.33E-08	4.21E-06	0.00E+00	0.00E+00	4.21E-06	1.33E-08	0.00E+00	1.33E-08	0.00E+00	0.00E+00	4.21E-06	0.00E+00	0.00E+00	4.21E-06
82 ALL	UCART1	491555	3620580	NonCancer	0.00E+00	1.30E-08	4.11E-06	0.00E+00	0.00E+00	4.11E-06	1.30E-08	0.00E+00	1.30E-08	0.00E+00	0.00E+00	4.11E-06	0.00E+00	0.00E+00	4.11E-06
83 ALL	UCART1	491564.7	3620580	NonCancer	0.00E+00	1.28E-08	4.07E-06	0.00E+00	0.00E+00	4.07E-06	1.28E-08	0.00E+00	1.28E-08	0.00E+00	0.00E+00	4.07E-06	0.00E+00	0.00E+00	4.07E-06
84 ALL	UCART1	491574.4	3620580	NonCancer	0.00E+00	1.25E-08	3.95E-06	0.00E+00	0.00E+00	3.95E-06	1.25E-08	0.00E+00	1.25E-08	0.00E+00	0.00E+00	3.95E-06	0.00E+00	0.00E+00	3.95E-06
85 ALL	UCART1	491380.6	3620598	NonCancer	0.00E+00	2.24E-08	7.11E-06	0.00E+00	0.00E+00	7.11E-06	2.24E-08	0.00E+00	2.24E-08	0.00E+00	0.00E+00	7.11E-06	0.00E+00	0.00E+00	7.11E-06
86 ALL	UCART1	491390.3	3620598	NonCancer	0.00E+00	2.12E-08	6.71E-06	0.00E+00	0.00E+00	6.71E-06	2.12E-08	0.00E+00	2.12E-08	0.00E+00	0.00E+00	6.71E-06	0.00E+00	0.00E+00	6.71E-06
87 ALL	UCART1	491400	3620598	NonCancer	0.00E+00	2.08E-08	6.60E-06	0.00E+00	0.00E+00	6.60E-06	2.08E-08	0.00E+00	2.08E-08	0.00E+00	0.00E+00	6.60E-06	0.00E+00	0.00E+00	6.60E-06
88 ALL	UCART1	491409.7	3620598	NonCancer	0.00E+00	2.05E-08	6.50E-06	0.00E+00	0.00E+00	6.50E-06	2.05E-08	0.00E+00	2.05E-08	0.00E+00	0.00E+00	6.50E-06	0.00E+00	0.00E+00	6.50E-06
89 ALL	UCART1	491419.3	3620598	NonCancer	0.00E+00	1.95E-08	6.19E-06	0.00E+00	0.00E+00	6.19E-06	1.95E-08	0.00E+00	1.95E-08	0.00E+00	0.00E+00	6.19E-06	0.00E+00	0.00E+00	6.19E-06
90 ALL	UCART1	491429	3620598	NonCancer	0.00E+00	1.95E-08	6.20E-06	0.00E+00	0.00E+00	6.20E-06	1.95E-08	0.00E+00	1.95E-08	0.00E+00	0.00E+00	6.20E-06	0.00E+00	0.00E+00	6.20E-06
91 ALL	UCART1	491438.7	3620598	NonCancer	0.00E+00	1.85E-08	5.86E-06	0.00E+00	0.00E+00	5.86E-06	1.85E-08	0.00E+00	1.85E-08	0.00E+00	0.00E+00	5.86E-06	0.00E+00	0.00E+00	5.86E-06
92 ALL	UCART1	491448.4	3620598	NonCancer	0.00E+00	1.78E-08	5.63E-06	0.00E+00	0.00E+00	5.63E-06	1.78E-08	0.00E+00	1.78E-08	0.00E+00	0.00E+00	5.63E-06	0.00E+00	0.00E+00	5.63E-06
93 ALL	UCART1	491458.1	3620598	NonCancer	0.00E+00	1.83E-08	5.79E-06	0.00E+00	0.00E+00	5.79E-06	1.83E-08	0.00E+00	1.83E-08	0.00E+00	0.00E+00	5.79E-06	0.00E+00	0.00E+00	5.79E-06
94 ALL	UCART1	491467.8	3620598	NonCancer	0.00E+00	1.74E-08	5.51E-06	0.00E+00	0.00E+00	5.51E-06	1.74E-08	0.00E+00	1.74E-08	0.00E+00	0.00E+00	5.51E-06	0.00E+00	0.00E+00	5.51E-06
95 ALL	UCART1	491477.5	3620598	NonCancer	0.00E+00	1.76E-08	5.59E-06	0.00E+00	0.00E+00	5.59E-06	1.76E-08	0.00E+00	1.76E-08	0.00E+00	0.00E+00	5.59E-06	0.00E+00	0.00E+00	5.59E-06
96 ALL	UCART1	491487.2	3620598	NonCancer	0.00E+00	1.68E-08	5.31E-06	0.00E+00	0.00E+00	5.31E-06	1.68E-08	0.00E+00	1.68E-08	0.00E+00	0.00E+00	5.31E-06	0.00E+00	0.00E+00	5.31E-06
97 ALL	UCART1	491496.9	3620598	NonCancer	0.00E+00	1.59E-08	5.04E-06	0.00E+00	0.00E+00	5.04E-06	1.59E-08	0.00E+00	1.59E-08	0.00E+00	0.00E+00	5.04E-06	0.00E+00	0.00E+00	5.04E-06
98 ALL	UCART1	491506.6	3620598	NonCancer	0.00E+00	1.52E-08	4.81E-06	0.00E+00	0.00E+00	4.81E-06	1.52E-08	0.00E+00	1.52E-08	0.00E+00	0.00E+00	4.81E-06	0.00E+00	0.00E+00	4.81E-06
99 ALL	UCART1	491516.2	3620598	NonCancer	0.00E+00	1.48E-08	4.69E-06	0.00E+00	0.00E+00	4.69E-06	1.48E-08	0.00E+00	1.48E-08	0.00E+00	0.00E+00	4.69E-06	0.00E+00	0.00E+00	4.69E-06
100 ALL	UCART1	491525.9	3620598	NonCancer	0.00E+00	1.44E-08	4.57E-06	0.00E+00	0.00E+00	4.57E-06	1.44E-08	0.00E+00	1.44E-08	0.00E+00	0.00E+00	4.57E-06	0.00E+00	0.00E+00	4.57E-06
101 ALL	UCART1	491535.6	3620598	NonCancer	0.00E+00	1.41E-08	4.46E-06	0.00E+00	0.00E+00	4.46E-06	1.41E-08	0.00E+00	1.41E-08	0.00E+00	0.00E+00	4.46E-06	0.00E+00	0.00E+00	4.46E-06
102 ALL	UCART1	491545.3	3620598	NonCancer	0.00E+00	1.39E-08	4.41E-06	0.00E+00	0.00E+00	4.41E-06	1.39E-08	0.00E+00	1.39E-08	0.00E+00	0.00E+00	4.41E-06	0.00E+00	0.00E+00	4.41E-06
103 ALL	UCART1	491555	3620598	NonCancer	0.00E+00	1.32E-08	4.18E-06	0.00E+00	0.00E+00	4.18E-06	1.32E-08	0.00E+00	1.32E-08	0.00E+00	0.00E+00	4.18E-06	0.00E+00	0.00E+00	4.18E-06
104 ALL	UCART1	491564.7	3620598	NonCancer	0.00E+00	1.25E-08	3.98E-06	0.00E+00	0.00E+00	3.98E-06	1.25E-08	0.00E+00	1.25E-08	0.00E+00	0.00E+00	3.98E-06	0.00E+		

110	ALL	UCART1	491419.3	3620616	NonCancer	0.00E+00	2.04E-08	6.48E-06	0.00E+00	0.00E+00	6.48E-06	2.04E-08	0.00E+00	2.04E-08	0.00E+00	0.00E+00	6.48E-06	0.00E+00	0.00E+00	6.48E-06
111	ALL	UCART1	491429	3620616	NonCancer	0.00E+00	1.97E-08	6.26E-06	0.00E+00	0.00E+00	6.26E-06	1.97E-08	0.00E+00	1.97E-08	0.00E+00	0.00E+00	6.26E-06	0.00E+00	0.00E+00	6.26E-06
112	ALL	UCART1	491438.7	3620616	NonCancer	0.00E+00	2.01E-08	6.36E-06	0.00E+00	0.00E+00	6.36E-06	2.01E-08	0.00E+00	2.01E-08	0.00E+00	0.00E+00	6.36E-06	0.00E+00	0.00E+00	6.36E-06
113	ALL	UCART1	491448.4	3620616	NonCancer	0.00E+00	1.91E-08	6.04E-06	0.00E+00	0.00E+00	6.04E-06	1.91E-08	0.00E+00	1.91E-08	0.00E+00	0.00E+00	6.04E-06	0.00E+00	0.00E+00	6.04E-06
114	ALL	UCART1	491458.1	3620616	NonCancer	0.00E+00	1.93E-08	6.11E-06	0.00E+00	0.00E+00	6.11E-06	1.93E-08	0.00E+00	1.93E-08	0.00E+00	0.00E+00	6.11E-06	0.00E+00	0.00E+00	6.11E-06
115	ALL	UCART1	491467.8	3620616	NonCancer	0.00E+00	1.79E-08	5.67E-06	0.00E+00	0.00E+00	5.67E-06	1.79E-08	0.00E+00	1.79E-08	0.00E+00	0.00E+00	5.67E-06	0.00E+00	0.00E+00	5.67E-06
116	ALL	UCART1	491477.5	3620616	NonCancer	0.00E+00	1.73E-08	5.47E-06	0.00E+00	0.00E+00	5.47E-06	1.73E-08	0.00E+00	1.73E-08	0.00E+00	0.00E+00	5.47E-06	0.00E+00	0.00E+00	5.47E-06
117	ALL	UCART1	491487.2	3620616	NonCancer	0.00E+00	1.64E-08	5.20E-06	0.00E+00	0.00E+00	5.20E-06	1.64E-08	0.00E+00	1.64E-08	0.00E+00	0.00E+00	5.20E-06	0.00E+00	0.00E+00	5.20E-06
118	ALL	UCART1	491496.9	3620616	NonCancer	0.00E+00	1.61E-08	5.10E-06	0.00E+00	0.00E+00	5.10E-06	1.61E-08	0.00E+00	1.61E-08	0.00E+00	0.00E+00	5.10E-06	0.00E+00	0.00E+00	5.10E-06
119	ALL	UCART1	491506.6	3620616	NonCancer	0.00E+00	1.57E-08	4.99E-06	0.00E+00	0.00E+00	4.99E-06	1.57E-08	0.00E+00	1.57E-08	0.00E+00	0.00E+00	4.99E-06	0.00E+00	0.00E+00	4.99E-06
120	ALL	UCART1	491516.2	3620616	NonCancer	0.00E+00	1.55E-08	4.92E-06	0.00E+00	0.00E+00	4.92E-06	1.55E-08	0.00E+00	1.55E-08	0.00E+00	0.00E+00	4.92E-06	0.00E+00	0.00E+00	4.92E-06
121	ALL	UCART1	491525.9	3620616	NonCancer	0.00E+00	1.47E-08	4.66E-06	0.00E+00	0.00E+00	4.66E-06	1.47E-08	0.00E+00	1.47E-08	0.00E+00	0.00E+00	4.66E-06	0.00E+00	0.00E+00	4.66E-06
122	ALL	UCART1	491535.6	3620616	NonCancer	0.00E+00	1.40E-08	4.44E-06	0.00E+00	0.00E+00	4.44E-06	1.40E-08	0.00E+00	1.40E-08	0.00E+00	0.00E+00	4.44E-06	0.00E+00	0.00E+00	4.44E-06
123	ALL	UCART1	491545.3	3620616	NonCancer	0.00E+00	1.33E-08	4.20E-06	0.00E+00	0.00E+00	4.20E-06	1.33E-08	0.00E+00	1.33E-08	0.00E+00	0.00E+00	4.20E-06	0.00E+00	0.00E+00	4.20E-06
124	ALL	UCART1	491555	3620616	NonCancer	0.00E+00	1.32E-08	4.17E-06	0.00E+00	0.00E+00	4.17E-06	1.32E-08	0.00E+00	1.32E-08	0.00E+00	0.00E+00	4.17E-06	0.00E+00	0.00E+00	4.17E-06
125	ALL	UCART1	491564.7	3620616	NonCancer	0.00E+00	1.32E-08	4.17E-06	0.00E+00	0.00E+00	4.17E-06	1.32E-08	0.00E+00	1.32E-08	0.00E+00	0.00E+00	4.17E-06	0.00E+00	0.00E+00	4.17E-06
126	ALL	UCART1	491574.4	3620616	NonCancer	0.00E+00	1.27E-08	4.03E-06	0.00E+00	0.00E+00	4.03E-06	1.27E-08	0.00E+00	1.27E-08	0.00E+00	0.00E+00	4.03E-06	0.00E+00	0.00E+00	4.03E-06
127	ALL	UCART1	491380.6	3620634	NonCancer	0.00E+00	2.40E-08	7.61E-06	0.00E+00	0.00E+00	7.61E-06	2.40E-08	0.00E+00	2.40E-08	0.00E+00	0.00E+00	7.61E-06	0.00E+00	0.00E+00	7.61E-06
128	ALL	UCART1	491390.3	3620634	NonCancer	0.00E+00	2.32E-08	7.34E-06	0.00E+00	0.00E+00	7.34E-06	2.32E-08	0.00E+00	2.32E-08	0.00E+00	0.00E+00	7.34E-06	0.00E+00	0.00E+00	7.34E-06
129	ALL	UCART1	491400	3620634	NonCancer	0.00E+00	2.26E-08	7.15E-06	0.00E+00	0.00E+00	7.15E-06	2.26E-08	0.00E+00	2.26E-08	0.00E+00	0.00E+00	7.15E-06	0.00E+00	0.00E+00	7.15E-06
130	ALL	UCART1	491409.7	3620634	NonCancer	0.00E+00	2.18E-08	6.90E-06	0.00E+00	0.00E+00	6.90E-06	2.18E-08	0.00E+00	2.18E-08	0.00E+00	0.00E+00	6.90E-06	0.00E+00	0.00E+00	6.90E-06
131	ALL	UCART1	491419.3	3620634	NonCancer	0.00E+00	2.23E-08	7.06E-06	0.00E+00	0.00E+00	7.06E-06	2.23E-08	0.00E+00	2.23E-08	0.00E+00	0.00E+00	7.06E-06	0.00E+00	0.00E+00	7.06E-06
132	ALL	UCART1	491429	3620634	NonCancer	0.00E+00	2.12E-08	6.73E-06	0.00E+00	0.00E+00	6.73E-06	2.12E-08	0.00E+00	2.12E-08	0.00E+00	0.00E+00	6.73E-06	0.00E+00	0.00E+00	6.73E-06
133	ALL	UCART1	491438.7	3620634	NonCancer	0.00E+00	2.13E-08	6.76E-06	0.00E+00	0.00E+00	6.76E-06	2.13E-08	0.00E+00	2.13E-08	0.00E+00	0.00E+00	6.76E-06	0.00E+00	0.00E+00	6.76E-06
134	ALL	UCART1	491448.4	3620634	NonCancer	0.00E+00	1.95E-08	6.18E-06	0.00E+00	0.00E+00	6.18E-06	1.95E-08	0.00E+00	1.95E-08	0.00E+00	0.00E+00	6.18E-06	0.00E+00	0.00E+00	6.18E-06
135	ALL	UCART1	491458.1	3620634	NonCancer	0.00E+00	1.88E-08	5.96E-06	0.00E+00	0.00E+00	5.96E-06	1.88E-08	0.00E+00	1.88E-08	0.00E+00	0.00E+00	5.96E-06	0.00E+00	0.00E+00	5.96E-06
136	ALL	UCART1	491467.8	3620634	NonCancer	0.00E+00	1.80E-08	5.70E-06	0.00E+00	0.00E+00	5.70E-06	1.80E-08	0.00E+00	1.80E-08	0.00E+00	0.00E+00	5.70E-06	0.00E+00	0.00E+00	5.70E-06
137	ALL	UCART1	491477.5	3620634	NonCancer	0.00E+00	1.76E-08	5.57E-06	0.00E+00	0.00E+00	5.57E-06	1.76E-08	0.00E+00	1.76E-08	0.00E+00	0.00E+00	5.57E-06	0.00E+00	0.00E+00	5.57E-06
138	ALL	UCART1	491487.2	3620634	NonCancer	0.00E+00	1.73E-08	5.49E-06	0.00E+00	0.00E+00	5.49E-06	1.73E-08	0.00E+00	1.73E-08	0.00E+00	0.00E+00	5.49E-06	0.00E+00	0.00E+00	5.49E-06
139	ALL	UCART1	491496.9	3620634	NonCancer	0.00E+00	1.67E-08	5.30E-06	0.00E+00	0.00E+00	5.30E-06	1.67E-08	0.00E+00	1.67E-08	0.00E+00	0.00E+00	5.30E-06	0.00E+00	0.00E+00	5.30E-06
140	ALL	UCART1	491506.6	3620634	NonCancer	0.00E+00	1.58E-08	5.02E-06	0.00E+00	0.00E+00	5.02E-06	1.58E-08	0.00E+00	1.58E-08	0.00E+00	0.00E+00	5.02E-06	0.00E+00	0.00E+00	5.02E-06
141	ALL	UCART1	491516.2	3620634	NonCancer	0.00E+00	1.47E-08	4.67E-06	0.00E+00	0.00E+00	4.67E-06	1.47E-08	0.00E+00	1.47E-08	0.00E+00	0.00E+00	4.67E-06	0.00E+00	0.00E+00	4.67E-06
142	ALL	UCART1	491525.9	3620634	NonCancer	0.00E+00	1.46E-08	4.63E-06	0.00E+00	0.00E+00	4.63E-06	1.46E-08	0.00E+00	1.46E-08	0.00E+00	0.00E+00	4.63E-06	0.00E+00	0.00E+00	4.63E-06
143	ALL	UCART1	491535.6	3620634	NonCancer	0.00E+00	1.44E-08	4.56E-06	0.00E+00	0.00E+00	4.56E-06	1.44E-08	0.00E+00	1.44E-08	0.00E+00	0.00E+00	4.56E-06	0.00E+00	0.00E+00	4.56E-06
144	ALL	UCART1	491545.3	3620634	NonCancer	0.00E+00	1.37E-08	4.36E-06	0.00E+00	0.00E+00	4.36E-06	1.37E-08	0.00E+00	1.37E-08	0.00E+00	0.00E+00	4.36E-06	0.00E+00	0.00E+00	4.36E-06
145	ALL	UCART1	491555	3620634	NonCancer	0.00E+00	1.41E-08	4.48E-06	0.00E+00	0.00E+00	4.48E-06	1.41E-08	0.00E+00	1.41E-08	0.00E+00	0.00E+00	4.48E-06	0.00E+00	0.00E+00	4.48E-06
146	ALL	UCART1	491564.7	3620634	NonCancer	0.00E+00	1.42E-08	4.50E-06	0.00E+00	0.00E+00	4.50E-06	1.42E-08	0.00E+00	1.42E-08	0.00E+00	0.00E+00	4.50E-06	0.00E+00	0.00E+00	4.50E-06
147	ALL	UCART1	491574.4	3620634	NonCancer	0.00E+00	1.36E-08	4.32E-06	0.00E+00	0.00E+00	4.32E-06	1.36E-08	0.00E+00	1.36E-08	0.00E+00	0.00E+00	4.32E-06	0.00E+00	0.00E+00	4.32E-06
148	ALL	UCART1	491380.6	3620652	NonCancer	0.00E+00	2.53E-08	8.02E-06	0.00E+00	0.00E+00	8.02E-06	2.53E-08	0.00E+00	2.53E-08	0.00E+00	0.00E+00	8.02E-06	0.00E+00	0.00E+00	8.02E-06
149	ALL	UCART1	491390.3	3620652	NonCancer	0.00E+00	2.38E-08	7.55E-06	0.00E+00	0.00E+00	7.55E-06	2.38E-08	0.00E+00	2.38E-08	0.00E+00	0.00E+00	7.55E-06	0.00E+00	0.00E+00	7.55E-06
150	ALL	UCART1	491400	3620652	NonCancer	0.00E+00	2.46E-08	7.80E-06	0.00E+00	0.00E+00	7.80E-06	2.46E-08	0.00E+00	2.46E-08	0.00E+00	0.00E+00	7.80E-06	0.00E+00	0.00E+00	7.80E-06
151	ALL	UCART1	491409.7	3620652	NonCancer	0.00E+00	2.37E-08	7.52E-06	0.00E+00	0.00E+00	7.52E-06	2.37E-08	0.00E+00	2.37E-08	0.00E+00	0.00E+00	7.52E-06	0.00E+00	0.00E+00	7.52E-06
152	ALL	UCART1	491419.3	3620652	NonCancer	0.00E+00	2.37E-08	7.50E-06	0.00E+00	0.00E+00	7.50E-06	2.37E-08	0.00E+00	2.37E-08	0.00E+00	0.00E+00	7.50E-06	0.00E+00	0.00E+00	7.50E-06
153	ALL	UCART1	491429	3620652	NonCancer	0.00E+00	2.18E-08	6.90E-06	0.00E+00	0.00E+00	6.90E-06	2.18E-08	0.00E+00	2.18E-08	0.00E+00	0.00E+00	6.90E-06	0.00E+00	0.00E+00	6.90E-06
154	ALL	UCART1	491438.7	3620652	NonCancer	0.00E+00	2.07E-08	6.57E-06	0.00E+00	0.00E+00	6.57E-06	2.07E-08	0.00E+00	2.07E-08	0.00E+00	0.00E+00	6.57E-06	0.00E+00	0.00E+00	6.57E-06
155	ALL	UCART1	491448.4	3620652	NonCancer	0.00E+00	2.01E-08	6.37E-06	0.00E+00	0.00E+00	6.37E-06	2.01E-08	0.00E+00	2.01E-08	0.00E+00	0.00E+00	6.37E-06	0.00E+00	0.00E+00	6.37E-06
156	ALL	UCART1	491458.1	3620652	NonCancer	0.00E+00	1.94E-08	6.15E-06	0.00E+00	0.00E+00	6.15E-06	1.94E-08	0.00E+00	1.94E-08	0.00E+00	0.00E+00	6.15E-06	0.00E+00	0.00E+00	6.15E-06
157	ALL	UCART1	491467.8	3620652	NonCancer	0.00E+00	1.92E-08	6.07E-06	0.00E+00	0.00E+00	6.07E-06	1.92E-08	0.00E+00	1.92E-08	0.00E+00	0.00E+00	6.07E-06	0.00E+00	0.00E+00	6.07E-06
158	ALL	UCART1	491477.5	3620652	NonCancer	0.00E+00	1.79E-08	5.67E-06	0.00E+00	0.00E+00	5.67E-06	1.79E-08	0.00E+00	1.79E-08	0.00					

165	ALL	UCART1	491545.3	3620652	NonCancer	0.00E+00	1.44E-08	4.58E-06	0.00E+00	0.00E+00	4.58E-06	1.44E-08	0.00E+00	1.44E-08	0.00E+00	0.00E+00	4.58E-06	0.00E+00	0.00E+00	4.58E-06
166	ALL	UCART1	491555	3620652	NonCancer	0.00E+00	1.43E-08	4.55E-06	0.00E+00	0.00E+00	4.55E-06	1.43E-08	0.00E+00	1.43E-08	0.00E+00	0.00E+00	4.55E-06	0.00E+00	0.00E+00	4.55E-06
167	ALL	UCART1	491564.7	3620652	NonCancer	0.00E+00	1.42E-08	4.50E-06	0.00E+00	0.00E+00	4.50E-06	1.42E-08	0.00E+00	1.42E-08	0.00E+00	0.00E+00	4.50E-06	0.00E+00	0.00E+00	4.50E-06
168	ALL	UCART1	491574.4	3620652	NonCancer	0.00E+00	1.36E-08	4.31E-06	0.00E+00	0.00E+00	4.31E-06	1.36E-08	0.00E+00	1.36E-08	0.00E+00	0.00E+00	4.31E-06	0.00E+00	0.00E+00	4.31E-06
169	ALL	UCART1	491380.6	3620671	NonCancer	0.00E+00	2.73E-08	8.66E-06	0.00E+00	0.00E+00	8.66E-06	2.73E-08	0.00E+00	2.73E-08	0.00E+00	0.00E+00	8.66E-06	0.00E+00	0.00E+00	8.66E-06
170	ALL	UCART1	491390.3	3620671	NonCancer	0.00E+00	2.66E-08	8.44E-06	0.00E+00	0.00E+00	8.44E-06	2.66E-08	0.00E+00	2.66E-08	0.00E+00	0.00E+00	8.44E-06	0.00E+00	0.00E+00	8.44E-06
171	ALL	UCART1	491400	3620671	NonCancer	0.00E+00	2.61E-08	8.27E-06	0.00E+00	0.00E+00	8.27E-06	2.61E-08	0.00E+00	2.61E-08	0.00E+00	0.00E+00	8.27E-06	0.00E+00	0.00E+00	8.27E-06
172	ALL	UCART1	491409.7	3620671	NonCancer	0.00E+00	2.41E-08	7.64E-06	0.00E+00	0.00E+00	7.64E-06	2.41E-08	0.00E+00	2.41E-08	0.00E+00	0.00E+00	7.64E-06	0.00E+00	0.00E+00	7.64E-06
173	ALL	UCART1	491419.3	3620671	NonCancer	0.00E+00	2.30E-08	7.31E-06	0.00E+00	0.00E+00	7.31E-06	2.30E-08	0.00E+00	2.30E-08	0.00E+00	0.00E+00	7.31E-06	0.00E+00	0.00E+00	7.31E-06
174	ALL	UCART1	491429	3620671	NonCancer	0.00E+00	2.24E-08	7.10E-06	0.00E+00	0.00E+00	7.10E-06	2.24E-08	0.00E+00	2.24E-08	0.00E+00	0.00E+00	7.10E-06	0.00E+00	0.00E+00	7.10E-06
175	ALL	UCART1	491438.7	3620671	NonCancer	0.00E+00	2.23E-08	7.06E-06	0.00E+00	0.00E+00	7.06E-06	2.23E-08	0.00E+00	2.23E-08	0.00E+00	0.00E+00	7.06E-06	0.00E+00	0.00E+00	7.06E-06
176	ALL	UCART1	491448.4	3620671	NonCancer	0.00E+00	2.06E-08	6.54E-06	0.00E+00	0.00E+00	6.54E-06	2.06E-08	0.00E+00	2.06E-08	0.00E+00	0.00E+00	6.54E-06	0.00E+00	0.00E+00	6.54E-06
177	ALL	UCART1	491458.1	3620671	NonCancer	0.00E+00	1.89E-08	5.99E-06	0.00E+00	0.00E+00	5.99E-06	1.89E-08	0.00E+00	1.89E-08	0.00E+00	0.00E+00	5.99E-06	0.00E+00	0.00E+00	5.99E-06
178	ALL	UCART1	491467.8	3620671	NonCancer	0.00E+00	1.86E-08	5.91E-06	0.00E+00	0.00E+00	5.91E-06	1.86E-08	0.00E+00	1.86E-08	0.00E+00	0.00E+00	5.91E-06	0.00E+00	0.00E+00	5.91E-06
179	ALL	UCART1	491477.5	3620671	NonCancer	0.00E+00	1.81E-08	5.75E-06	0.00E+00	0.00E+00	5.75E-06	1.81E-08	0.00E+00	1.81E-08	0.00E+00	0.00E+00	5.75E-06	0.00E+00	0.00E+00	5.75E-06
180	ALL	UCART1	491487.2	3620671	NonCancer	0.00E+00	1.78E-08	5.65E-06	0.00E+00	0.00E+00	5.65E-06	1.78E-08	0.00E+00	1.78E-08	0.00E+00	0.00E+00	5.65E-06	0.00E+00	0.00E+00	5.65E-06
181	ALL	UCART1	491496.9	3620671	NonCancer	0.00E+00	1.80E-08	5.71E-06	0.00E+00	0.00E+00	5.71E-06	1.80E-08	0.00E+00	1.80E-08	0.00E+00	0.00E+00	5.71E-06	0.00E+00	0.00E+00	5.71E-06
182	ALL	UCART1	491506.6	3620671	NonCancer	0.00E+00	1.72E-08	5.44E-06	0.00E+00	0.00E+00	5.44E-06	1.72E-08	0.00E+00	1.72E-08	0.00E+00	0.00E+00	5.44E-06	0.00E+00	0.00E+00	5.44E-06
183	ALL	UCART1	491516.2	3620671	NonCancer	0.00E+00	1.61E-08	5.10E-06	0.00E+00	0.00E+00	5.10E-06	1.61E-08	0.00E+00	1.61E-08	0.00E+00	0.00E+00	5.10E-06	0.00E+00	0.00E+00	5.10E-06
184	ALL	UCART1	491525.9	3620671	NonCancer	0.00E+00	1.58E-08	5.01E-06	0.00E+00	0.00E+00	5.01E-06	1.58E-08	0.00E+00	1.58E-08	0.00E+00	0.00E+00	5.01E-06	0.00E+00	0.00E+00	5.01E-06
185	ALL	UCART1	491535.6	3620671	NonCancer	0.00E+00	1.50E-08	4.75E-06	0.00E+00	0.00E+00	4.75E-06	1.50E-08	0.00E+00	1.50E-08	0.00E+00	0.00E+00	4.75E-06	0.00E+00	0.00E+00	4.75E-06
186	ALL	UCART1	491545.3	3620671	NonCancer	0.00E+00	1.40E-08	4.44E-06	0.00E+00	0.00E+00	4.44E-06	1.40E-08	0.00E+00	1.40E-08	0.00E+00	0.00E+00	4.44E-06	0.00E+00	0.00E+00	4.44E-06
187	ALL	UCART1	491555	3620671	NonCancer	0.00E+00	1.39E-08	4.42E-06	0.00E+00	0.00E+00	4.42E-06	1.39E-08	0.00E+00	1.39E-08	0.00E+00	0.00E+00	4.42E-06	0.00E+00	0.00E+00	4.42E-06
188	ALL	UCART1	491564.7	3620671	NonCancer	0.00E+00	1.38E-08	4.39E-06	0.00E+00	0.00E+00	4.39E-06	1.38E-08	0.00E+00	1.38E-08	0.00E+00	0.00E+00	4.39E-06	0.00E+00	0.00E+00	4.39E-06
189	ALL	UCART1	491574.4	3620671	NonCancer	0.00E+00	1.37E-08	4.35E-06	0.00E+00	0.00E+00	4.35E-06	1.37E-08	0.00E+00	1.37E-08	0.00E+00	0.00E+00	4.35E-06	0.00E+00	0.00E+00	4.35E-06
190	ALL	UCART1	491380.6	3620689	NonCancer	0.00E+00	2.87E-08	9.11E-06	0.00E+00	0.00E+00	9.11E-06	2.87E-08	0.00E+00	2.87E-08	0.00E+00	0.00E+00	9.11E-06	0.00E+00	0.00E+00	9.11E-06
191	ALL	UCART1	491390.3	3620689	NonCancer	0.00E+00	2.63E-08	8.33E-06	0.00E+00	0.00E+00	8.33E-06	2.63E-08	0.00E+00	2.63E-08	0.00E+00	0.00E+00	8.33E-06	0.00E+00	0.00E+00	8.33E-06
192	ALL	UCART1	491400	3620689	NonCancer	0.00E+00	2.55E-08	8.07E-06	0.00E+00	0.00E+00	8.07E-06	2.55E-08	0.00E+00	2.55E-08	0.00E+00	0.00E+00	8.07E-06	0.00E+00	0.00E+00	8.07E-06
193	ALL	UCART1	491409.7	3620689	NonCancer	0.00E+00	2.54E-08	8.05E-06	0.00E+00	0.00E+00	8.05E-06	2.54E-08	0.00E+00	2.54E-08	0.00E+00	0.00E+00	8.05E-06	0.00E+00	0.00E+00	8.05E-06
194	ALL	UCART1	491419.3	3620689	NonCancer	0.00E+00	2.44E-08	7.74E-06	0.00E+00	0.00E+00	7.74E-06	2.44E-08	0.00E+00	2.44E-08	0.00E+00	0.00E+00	7.74E-06	0.00E+00	0.00E+00	7.74E-06
195	ALL	UCART1	491429	3620689	NonCancer	0.00E+00	2.21E-08	7.02E-06	0.00E+00	0.00E+00	7.02E-06	2.21E-08	0.00E+00	2.21E-08	0.00E+00	0.00E+00	7.02E-06	0.00E+00	0.00E+00	7.02E-06
196	ALL	UCART1	491438.7	3620689	NonCancer	0.00E+00	2.15E-08	6.82E-06	0.00E+00	0.00E+00	6.82E-06	2.15E-08	0.00E+00	2.15E-08	0.00E+00	0.00E+00	6.82E-06	0.00E+00	0.00E+00	6.82E-06
197	ALL	UCART1	491448.4	3620689	NonCancer	0.00E+00	2.11E-08	6.67E-06	0.00E+00	0.00E+00	6.67E-06	2.11E-08	0.00E+00	2.11E-08	0.00E+00	0.00E+00	6.67E-06	0.00E+00	0.00E+00	6.67E-06
198	ALL	UCART1	491458.1	3620689	NonCancer	0.00E+00	2.09E-08	6.61E-06	0.00E+00	0.00E+00	6.61E-06	2.09E-08	0.00E+00	2.09E-08	0.00E+00	0.00E+00	6.61E-06	0.00E+00	0.00E+00	6.61E-06
199	ALL	UCART1	491467.8	3620689	NonCancer	0.00E+00	2.06E-08	6.52E-06	0.00E+00	0.00E+00	6.52E-06	2.06E-08	0.00E+00	2.06E-08	0.00E+00	0.00E+00	6.52E-06	0.00E+00	0.00E+00	6.52E-06
200	ALL	UCART1	491477.5	3620689	NonCancer	0.00E+00	1.90E-08	6.02E-06	0.00E+00	0.00E+00	6.02E-06	1.90E-08	0.00E+00	1.90E-08	0.00E+00	0.00E+00	6.02E-06	0.00E+00	0.00E+00	6.02E-06
201	ALL	UCART1	491487.2	3620689	NonCancer	0.00E+00	1.84E-08	5.85E-06	0.00E+00	0.00E+00	5.85E-06	1.84E-08	0.00E+00	1.84E-08	0.00E+00	0.00E+00	5.85E-06	0.00E+00	0.00E+00	5.85E-06
202	ALL	UCART1	491496.9	3620689	NonCancer	0.00E+00	1.75E-08	5.55E-06	0.00E+00	0.00E+00	5.55E-06	1.75E-08	0.00E+00	1.75E-08	0.00E+00	0.00E+00	5.55E-06	0.00E+00	0.00E+00	5.55E-06
203	ALL	UCART1	491506.6	3620689	NonCancer	0.00E+00	1.59E-08	5.03E-06	0.00E+00	0.00E+00	5.03E-06	1.59E-08	0.00E+00	1.59E-08	0.00E+00	0.00E+00	5.03E-06	0.00E+00	0.00E+00	5.03E-06
204	ALL	UCART1	491516.2	3620689	NonCancer	0.00E+00	1.55E-08	4.92E-06	0.00E+00	0.00E+00	4.92E-06	1.55E-08	0.00E+00	1.55E-08	0.00E+00	0.00E+00	4.92E-06	0.00E+00	0.00E+00	4.92E-06
205	ALL	UCART1	491525.9	3620689	NonCancer	0.00E+00	1.53E-08	4.84E-06	0.00E+00	0.00E+00	4.84E-06	1.53E-08	0.00E+00	1.53E-08	0.00E+00	0.00E+00	4.84E-06	0.00E+00	0.00E+00	4.84E-06
206	ALL	UCART1	491535.6	3620689	NonCancer	0.00E+00	1.48E-08	4.69E-06	0.00E+00	0.00E+00	4.69E-06	1.48E-08	0.00E+00	1.48E-08	0.00E+00	0.00E+00	4.69E-06	0.00E+00	0.00E+00	4.69E-06
207	ALL	UCART1	491545.3	3620689	NonCancer	0.00E+00	1.40E-08	4.43E-06	0.00E+00	0.00E+00	4.43E-06	1.40E-08	0.00E+00	1.40E-08	0.00E+00	0.00E+00	4.43E-06	0.00E+00	0.00E+00	4.43E-06
208	ALL	UCART1	491555	3620689	NonCancer	0.00E+00	1.34E-08	4.26E-06	0.00E+00	0.00E+00	4.26E-06	1.34E-08	0.00E+00	1.34E-08	0.00E+00	0.00E+00	4.26E-06	0.00E+00	0.00E+00	4.26E-06
209	ALL	UCART1	491564.7	3620689	NonCancer	0.00E+00	1.33E-08	4.20E-06	0.00E+00	0.00E+00	4.20E-06	1.33E-08	0.00E+00	1.33E-08	0.00E+00	0.00E+00	4.20E-06	0.00E+00	0.00E+00	4.20E-06
210	ALL	UCART1	491574.4	3620689	NonCancer	0.00E+00	1.35E-08	4.29E-06	0.00E+00	0.00E+00	4.29E-06	1.35E-08	0.00E+00	1.35E-08	0.00E+00	0.00E+00	4.29E-06	0.00E+00	0.00E+00	4.29E-06
211	ALL	UCART1	491380.6	3620707	NonCancer	0.00E+00	2.87E-08	9.11E-06	0.00E+00	0.00E+00	9.11E-06	2.87E-08	0.00E+00	2.87E-08	0.00E+00	0.00E+00	9.11E-06	0.00E+00	0.00E+00	9.11E-06
212	ALL	UCART1	491390.3	3620707	NonCancer	0.00E+00	2.87E-08	9.10E-06	0.00E+00	0.00E+00	9.10E-06	2.87E-08	0.00E+00	2.87E-08	0.00E+00	0.00E+00	9.10E-06	0.00E+00	0.00E+00	9.10E-06
213	ALL	UCART1	491400	3620707	NonCancer	0.00E+00	2.56E-08	8.12E-06	0.00E+00	0.00E+00	8.12E-06	2.56E-08	0.00E+00	2.56E-08	0.00E+					

220	ALL	UCART1	491467.8	3620707	NonCancer	0.00E+00	1.91E-08	6.05E-06	0.00E+00	0.00E+00	6.05E-06	1.91E-08	0.00E+00	1.91E-08	0.00E+00	0.00E+00	6.05E-06	0.00E+00	0.00E+00	6.05E-06
221	ALL	UCART1	491477.5	3620707	NonCancer	0.00E+00	1.81E-08	5.75E-06	0.00E+00	0.00E+00	5.75E-06	1.81E-08	0.00E+00	1.81E-08	0.00E+00	0.00E+00	5.75E-06	0.00E+00	0.00E+00	5.75E-06
222	ALL	UCART1	491487.2	3620707	NonCancer	0.00E+00	1.80E-08	5.69E-06	0.00E+00	0.00E+00	5.69E-06	1.80E-08	0.00E+00	1.80E-08	0.00E+00	0.00E+00	5.69E-06	0.00E+00	0.00E+00	5.69E-06
223	ALL	UCART1	491496.9	3620707	NonCancer	0.00E+00	1.70E-08	5.40E-06	0.00E+00	0.00E+00	5.40E-06	1.70E-08	0.00E+00	1.70E-08	0.00E+00	0.00E+00	5.40E-06	0.00E+00	0.00E+00	5.40E-06
224	ALL	UCART1	491506.6	3620707	NonCancer	0.00E+00	1.58E-08	5.02E-06	0.00E+00	0.00E+00	5.02E-06	1.58E-08	0.00E+00	1.58E-08	0.00E+00	0.00E+00	5.02E-06	0.00E+00	0.00E+00	5.02E-06
225	ALL	UCART1	491516.2	3620707	NonCancer	0.00E+00	1.48E-08	4.70E-06	0.00E+00	0.00E+00	4.70E-06	1.48E-08	0.00E+00	1.48E-08	0.00E+00	0.00E+00	4.70E-06	0.00E+00	0.00E+00	4.70E-06
226	ALL	UCART1	491525.9	3620707	NonCancer	0.00E+00	1.47E-08	4.67E-06	0.00E+00	0.00E+00	4.67E-06	1.47E-08	0.00E+00	1.47E-08	0.00E+00	0.00E+00	4.67E-06	0.00E+00	0.00E+00	4.67E-06
227	ALL	UCART1	491535.6	3620707	NonCancer	0.00E+00	1.46E-08	4.61E-06	0.00E+00	0.00E+00	4.61E-06	1.46E-08	0.00E+00	1.46E-08	0.00E+00	0.00E+00	4.61E-06	0.00E+00	0.00E+00	4.61E-06
228	ALL	UCART1	491545.3	3620707	NonCancer	0.00E+00	1.43E-08	4.54E-06	0.00E+00	0.00E+00	4.54E-06	1.43E-08	0.00E+00	1.43E-08	0.00E+00	0.00E+00	4.54E-06	0.00E+00	0.00E+00	4.54E-06
229	ALL	UCART1	491555	3620707	NonCancer	0.00E+00	1.42E-08	4.49E-06	0.00E+00	0.00E+00	4.49E-06	1.42E-08	0.00E+00	1.42E-08	0.00E+00	0.00E+00	4.49E-06	0.00E+00	0.00E+00	4.49E-06
230	ALL	UCART1	491564.7	3620707	NonCancer	0.00E+00	1.43E-08	4.53E-06	0.00E+00	0.00E+00	4.53E-06	1.43E-08	0.00E+00	1.43E-08	0.00E+00	0.00E+00	4.53E-06	0.00E+00	0.00E+00	4.53E-06
231	ALL	UCART1	491574.4	3620707	NonCancer	0.00E+00	1.46E-08	4.62E-06	0.00E+00	0.00E+00	4.62E-06	1.46E-08	0.00E+00	1.46E-08	0.00E+00	0.00E+00	4.62E-06	0.00E+00	0.00E+00	4.62E-06
232	ALL	UCART1	491380.6	3620725	NonCancer	0.00E+00	2.92E-08	9.25E-06	0.00E+00	0.00E+00	9.25E-06	2.92E-08	0.00E+00	2.92E-08	0.00E+00	0.00E+00	9.25E-06	0.00E+00	0.00E+00	9.25E-06
233	ALL	UCART1	491390.3	3620725	NonCancer	0.00E+00	2.80E-08	8.87E-06	0.00E+00	0.00E+00	8.87E-06	2.80E-08	0.00E+00	2.80E-08	0.00E+00	0.00E+00	8.87E-06	0.00E+00	0.00E+00	8.87E-06
234	ALL	UCART1	491400	3620725	NonCancer	0.00E+00	2.85E-08	9.04E-06	0.00E+00	0.00E+00	9.04E-06	2.85E-08	0.00E+00	2.85E-08	0.00E+00	0.00E+00	9.04E-06	0.00E+00	0.00E+00	9.04E-06
235	ALL	UCART1	491409.7	3620725	NonCancer	0.00E+00	2.66E-08	8.43E-06	0.00E+00	0.00E+00	8.43E-06	2.66E-08	0.00E+00	2.66E-08	0.00E+00	0.00E+00	8.43E-06	0.00E+00	0.00E+00	8.43E-06
236	ALL	UCART1	491419.3	3620725	NonCancer	0.00E+00	2.55E-08	8.09E-06	0.00E+00	0.00E+00	8.09E-06	2.55E-08	0.00E+00	2.55E-08	0.00E+00	0.00E+00	8.09E-06	0.00E+00	0.00E+00	8.09E-06
237	ALL	UCART1	491429	3620725	NonCancer	0.00E+00	2.35E-08	7.43E-06	0.00E+00	0.00E+00	7.43E-06	2.35E-08	0.00E+00	2.35E-08	0.00E+00	0.00E+00	7.43E-06	0.00E+00	0.00E+00	7.43E-06
238	ALL	UCART1	491438.7	3620725	NonCancer	0.00E+00	2.19E-08	6.93E-06	0.00E+00	0.00E+00	6.93E-06	2.19E-08	0.00E+00	2.19E-08	0.00E+00	0.00E+00	6.93E-06	0.00E+00	0.00E+00	6.93E-06
239	ALL	UCART1	491448.4	3620725	NonCancer	0.00E+00	2.16E-08	6.84E-06	0.00E+00	0.00E+00	6.84E-06	2.16E-08	0.00E+00	2.16E-08	0.00E+00	0.00E+00	6.84E-06	0.00E+00	0.00E+00	6.84E-06
240	ALL	UCART1	491458.1	3620725	NonCancer	0.00E+00	2.00E-08	6.35E-06	0.00E+00	0.00E+00	6.35E-06	2.00E-08	0.00E+00	2.00E-08	0.00E+00	0.00E+00	6.35E-06	0.00E+00	0.00E+00	6.35E-06
241	ALL	UCART1	491467.8	3620725	NonCancer	0.00E+00	1.84E-08	5.84E-06	0.00E+00	0.00E+00	5.84E-06	1.84E-08	0.00E+00	1.84E-08	0.00E+00	0.00E+00	5.84E-06	0.00E+00	0.00E+00	5.84E-06
242	ALL	UCART1	491477.5	3620725	NonCancer	0.00E+00	1.79E-08	5.66E-06	0.00E+00	0.00E+00	5.66E-06	1.79E-08	0.00E+00	1.79E-08	0.00E+00	0.00E+00	5.66E-06	0.00E+00	0.00E+00	5.66E-06
243	ALL	UCART1	491487.2	3620725	NonCancer	0.00E+00	1.74E-08	5.52E-06	0.00E+00	0.00E+00	5.52E-06	1.74E-08	0.00E+00	1.74E-08	0.00E+00	0.00E+00	5.52E-06	0.00E+00	0.00E+00	5.52E-06
244	ALL	UCART1	491496.9	3620725	NonCancer	0.00E+00	1.69E-08	5.36E-06	0.00E+00	0.00E+00	5.36E-06	1.69E-08	0.00E+00	1.69E-08	0.00E+00	0.00E+00	5.36E-06	0.00E+00	0.00E+00	5.36E-06
245	ALL	UCART1	491506.6	3620725	NonCancer	0.00E+00	1.62E-08	5.14E-06	0.00E+00	0.00E+00	5.14E-06	1.62E-08	0.00E+00	1.62E-08	0.00E+00	0.00E+00	5.14E-06	0.00E+00	0.00E+00	5.14E-06
246	ALL	UCART1	491516.2	3620725	NonCancer	0.00E+00	1.59E-08	5.04E-06	0.00E+00	0.00E+00	5.04E-06	1.59E-08	0.00E+00	1.59E-08	0.00E+00	0.00E+00	5.04E-06	0.00E+00	0.00E+00	5.04E-06
247	ALL	UCART1	491525.9	3620725	NonCancer	0.00E+00	1.60E-08	5.06E-06	0.00E+00	0.00E+00	5.06E-06	1.60E-08	0.00E+00	1.60E-08	0.00E+00	0.00E+00	5.06E-06	0.00E+00	0.00E+00	5.06E-06
248	ALL	UCART1	491535.6	3620725	NonCancer	0.00E+00	1.59E-08	5.04E-06	0.00E+00	0.00E+00	5.04E-06	1.59E-08	0.00E+00	1.59E-08	0.00E+00	0.00E+00	5.04E-06	0.00E+00	0.00E+00	5.04E-06
249	ALL	UCART1	491545.3	3620725	NonCancer	0.00E+00	1.55E-08	4.91E-06	0.00E+00	0.00E+00	4.91E-06	1.55E-08	0.00E+00	1.55E-08	0.00E+00	0.00E+00	4.91E-06	0.00E+00	0.00E+00	4.91E-06
250	ALL	UCART1	491555	3620725	NonCancer	0.00E+00	1.53E-08	4.84E-06	0.00E+00	0.00E+00	4.84E-06	1.53E-08	0.00E+00	1.53E-08	0.00E+00	0.00E+00	4.84E-06	0.00E+00	0.00E+00	4.84E-06
251	ALL	UCART1	491564.7	3620725	NonCancer	0.00E+00	1.51E-08	4.77E-06	0.00E+00	0.00E+00	4.77E-06	1.51E-08	0.00E+00	1.51E-08	0.00E+00	0.00E+00	4.77E-06	0.00E+00	0.00E+00	4.77E-06
252	ALL	UCART1	491574.4	3620725	NonCancer	0.00E+00	1.51E-08	4.78E-06	0.00E+00	0.00E+00	4.78E-06	1.51E-08	0.00E+00	1.51E-08	0.00E+00	0.00E+00	4.78E-06	0.00E+00	0.00E+00	4.78E-06
253	ALL	UCART1	491380.6	3620743	NonCancer	0.00E+00	3.22E-08	1.02E-05	0.00E+00	0.00E+00	1.02E-05	3.22E-08	0.00E+00	3.22E-08	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	1.02E-05
254	ALL	UCART1	491390.3	3620743	NonCancer	0.00E+00	2.93E-08	9.30E-06	0.00E+00	0.00E+00	9.30E-06	2.93E-08	0.00E+00	2.93E-08	0.00E+00	0.00E+00	9.30E-06	0.00E+00	0.00E+00	9.30E-06
255	ALL	UCART1	491400	3620743	NonCancer	0.00E+00	2.66E-08	8.44E-06	0.00E+00	0.00E+00	8.44E-06	2.66E-08	0.00E+00	2.66E-08	0.00E+00	0.00E+00	8.44E-06	0.00E+00	0.00E+00	8.44E-06
256	ALL	UCART1	491409.7	3620743	NonCancer	0.00E+00	2.59E-08	8.22E-06	0.00E+00	0.00E+00	8.22E-06	2.59E-08	0.00E+00	2.59E-08	0.00E+00	0.00E+00	8.22E-06	0.00E+00	0.00E+00	8.22E-06
257	ALL	UCART1	491419.3	3620743	NonCancer	0.00E+00	2.37E-08	7.50E-06	0.00E+00	0.00E+00	7.50E-06	2.37E-08	0.00E+00	2.37E-08	0.00E+00	0.00E+00	7.50E-06	0.00E+00	0.00E+00	7.50E-06
258	ALL	UCART1	491429	3620743	NonCancer	0.00E+00	2.23E-08	7.07E-06	0.00E+00	0.00E+00	7.07E-06	2.23E-08	0.00E+00	2.23E-08	0.00E+00	0.00E+00	7.07E-06	0.00E+00	0.00E+00	7.07E-06
259	ALL	UCART1	491438.7	3620743	NonCancer	0.00E+00	2.18E-08	6.92E-06	0.00E+00	0.00E+00	6.92E-06	2.18E-08	0.00E+00	2.18E-08	0.00E+00	0.00E+00	6.92E-06	0.00E+00	0.00E+00	6.92E-06
260	ALL	UCART1	491448.4	3620743	NonCancer	0.00E+00	2.12E-08	6.71E-06	0.00E+00	0.00E+00	6.71E-06	2.12E-08	0.00E+00	2.12E-08	0.00E+00	0.00E+00	6.71E-06	0.00E+00	0.00E+00	6.71E-06
261	ALL	UCART1	491458.1	3620743	NonCancer	0.00E+00	2.01E-08	6.36E-06	0.00E+00	0.00E+00	6.36E-06	2.01E-08	0.00E+00	2.01E-08	0.00E+00	0.00E+00	6.36E-06	0.00E+00	0.00E+00	6.36E-06
262	ALL	UCART1	491467.8	3620743	NonCancer	0.00E+00	1.98E-08	6.29E-06	0.00E+00	0.00E+00	6.29E-06	1.98E-08	0.00E+00	1.98E-08	0.00E+00	0.00E+00	6.29E-06	0.00E+00	0.00E+00	6.29E-06
263	ALL	UCART1	491477.5	3620743	NonCancer	0.00E+00	1.94E-08	6.15E-06	0.00E+00	0.00E+00	6.15E-06	1.94E-08	0.00E+00	1.94E-08	0.00E+00	0.00E+00	6.15E-06	0.00E+00	0.00E+00	6.15E-06
264	ALL	UCART1	491487.2	3620743	NonCancer	0.00E+00	1.92E-08	6.09E-06	0.00E+00	0.00E+00	6.09E-06	1.92E-08	0.00E+00	1.92E-08	0.00E+00	0.00E+00	6.09E-06	0.00E+00	0.00E+00	6.09E-06
265	ALL	UCART1	491496.9	3620743	NonCancer	0.00E+00	1.87E-08	5.93E-06	0.00E+00	0.00E+00	5.93E-06	1.87E-08	0.00E+00	1.87E-08	0.00E+00	0.00E+00	5.93E-06	0.00E+00	0.00E+00	5.93E-06
266	ALL	UCART1	491506.6	3620743	NonCancer	0.00E+00	1.78E-08	5.64E-06	0.00E+00	0.00E+00	5.64E-06	1.78E-08	0.00E+00	1.78E-08	0.00E+00	0.00E+00	5.64E-06	0.00E+00	0.00E+00	5.64E-06
267	ALL	UCART1	491516.2	3620743	NonCancer	0.00E+00	1.72E-08	5.44E-06	0.00E+00	0.00E+00	5.44E-06	1.72E-08	0.00E+00	1.72E-08	0.00E+00	0.00E+00	5.44E-06	0.00E+00	0.00E+00	5.44E-06
268	ALL	UCART1	491525.9	3620743	NonCancer	0.00E+00	1.64E-08	5.20E-06	0.00E+00	0.00E+00	5.20E-06	1.64E-08	0.00E+00	1.64E-08	0.					

275 ALL	UCART1	491390.3	3620761	NonCancer	0.00E+00	2.86E-08	9.06E-06	0.00E+00	0.00E+00	9.06E-06	2.86E-08	0.00E+00	2.86E-08	0.00E+00	0.00E+00	9.06E-06	0.00E+00	0.00E+00	9.06E-06
276 ALL	UCART1	491400	3620761	NonCancer	0.00E+00	2.74E-08	8.70E-06	0.00E+00	0.00E+00	8.70E-06	2.74E-08	0.00E+00	2.74E-08	0.00E+00	0.00E+00	8.70E-06	0.00E+00	0.00E+00	8.70E-06
277 ALL	UCART1	491409.7	3620761	NonCancer	0.00E+00	2.57E-08	8.15E-06	0.00E+00	0.00E+00	8.15E-06	2.57E-08	0.00E+00	2.57E-08	0.00E+00	0.00E+00	8.15E-06	0.00E+00	0.00E+00	8.15E-06
278 ALL	UCART1	491419.3	3620761	NonCancer	0.00E+00	2.55E-08	8.08E-06	0.00E+00	0.00E+00	8.08E-06	2.55E-08	0.00E+00	2.55E-08	0.00E+00	0.00E+00	8.08E-06	0.00E+00	0.00E+00	8.08E-06
279 ALL	UCART1	491429	3620761	NonCancer	0.00E+00	2.51E-08	7.97E-06	0.00E+00	0.00E+00	7.97E-06	2.51E-08	0.00E+00	2.51E-08	0.00E+00	0.00E+00	7.97E-06	0.00E+00	0.00E+00	7.97E-06
280 ALL	UCART1	491438.7	3620761	NonCancer	0.00E+00	2.42E-08	7.69E-06	0.00E+00	0.00E+00	7.69E-06	2.42E-08	0.00E+00	2.42E-08	0.00E+00	0.00E+00	7.69E-06	0.00E+00	0.00E+00	7.69E-06
281 ALL	UCART1	491448.4	3620761	NonCancer	0.00E+00	2.27E-08	7.19E-06	0.00E+00	0.00E+00	7.19E-06	2.27E-08	0.00E+00	2.27E-08	0.00E+00	0.00E+00	7.19E-06	0.00E+00	0.00E+00	7.19E-06
282 ALL	UCART1	491458.1	3620761	NonCancer	0.00E+00	2.12E-08	6.73E-06	0.00E+00	0.00E+00	6.73E-06	2.12E-08	0.00E+00	2.12E-08	0.00E+00	0.00E+00	6.73E-06	0.00E+00	0.00E+00	6.73E-06
283 ALL	UCART1	491467.8	3620761	NonCancer	0.00E+00	1.98E-08	6.26E-06	0.00E+00	0.00E+00	6.26E-06	1.98E-08	0.00E+00	1.98E-08	0.00E+00	0.00E+00	6.26E-06	0.00E+00	0.00E+00	6.26E-06
284 ALL	UCART1	491477.5	3620761	NonCancer	0.00E+00	1.87E-08	5.93E-06	0.00E+00	0.00E+00	5.93E-06	1.87E-08	0.00E+00	1.87E-08	0.00E+00	0.00E+00	5.93E-06	0.00E+00	0.00E+00	5.93E-06
285 ALL	UCART1	491487.2	3620761	NonCancer	0.00E+00	1.85E-08	5.86E-06	0.00E+00	0.00E+00	5.86E-06	1.85E-08	0.00E+00	1.85E-08	0.00E+00	0.00E+00	5.86E-06	0.00E+00	0.00E+00	5.86E-06
286 ALL	UCART1	491496.9	3620761	NonCancer	0.00E+00	1.84E-08	5.83E-06	0.00E+00	0.00E+00	5.83E-06	1.84E-08	0.00E+00	1.84E-08	0.00E+00	0.00E+00	5.83E-06	0.00E+00	0.00E+00	5.83E-06
287 ALL	UCART1	491506.6	3620761	NonCancer	0.00E+00	1.81E-08	5.74E-06	0.00E+00	0.00E+00	5.74E-06	1.81E-08	0.00E+00	1.81E-08	0.00E+00	0.00E+00	5.74E-06	0.00E+00	0.00E+00	5.74E-06
288 ALL	UCART1	491516.2	3620761	NonCancer	0.00E+00	1.75E-08	5.56E-06	0.00E+00	0.00E+00	5.56E-06	1.75E-08	0.00E+00	1.75E-08	0.00E+00	0.00E+00	5.56E-06	0.00E+00	0.00E+00	5.56E-06
289 ALL	UCART1	491525.9	3620761	NonCancer	0.00E+00	1.68E-08	5.33E-06	0.00E+00	0.00E+00	5.33E-06	1.68E-08	0.00E+00	1.68E-08	0.00E+00	0.00E+00	5.33E-06	0.00E+00	0.00E+00	5.33E-06
290 ALL	UCART1	491535.6	3620761	NonCancer	0.00E+00	1.59E-08	5.03E-06	0.00E+00	0.00E+00	5.03E-06	1.59E-08	0.00E+00	1.59E-08	0.00E+00	0.00E+00	5.03E-06	0.00E+00	0.00E+00	5.03E-06
291 ALL	UCART1	491545.3	3620761	NonCancer	0.00E+00	1.53E-08	4.84E-06	0.00E+00	0.00E+00	4.84E-06	1.53E-08	0.00E+00	1.53E-08	0.00E+00	0.00E+00	4.84E-06	0.00E+00	0.00E+00	4.84E-06
292 ALL	UCART1	491555	3620761	NonCancer	0.00E+00	1.50E-08	4.76E-06	0.00E+00	0.00E+00	4.76E-06	1.50E-08	0.00E+00	1.50E-08	0.00E+00	0.00E+00	4.76E-06	0.00E+00	0.00E+00	4.76E-06
293 ALL	UCART1	491564.7	3620761	NonCancer	0.00E+00	1.47E-08	4.66E-06	0.00E+00	0.00E+00	4.66E-06	1.47E-08	0.00E+00	1.47E-08	0.00E+00	0.00E+00	4.66E-06	0.00E+00	0.00E+00	4.66E-06
294 ALL	UCART1	491574.4	3620761	NonCancer	0.00E+00	1.44E-08	4.56E-06	0.00E+00	0.00E+00	4.56E-06	1.44E-08	0.00E+00	1.44E-08	0.00E+00	0.00E+00	4.56E-06	0.00E+00	0.00E+00	4.56E-06
295 ALL	UCART1	491380.6	3620779	NonCancer	0.00E+00	3.49E-08	1.11E-05	0.00E+00	0.00E+00	1.11E-05	3.49E-08	0.00E+00	3.49E-08	0.00E+00	0.00E+00	1.11E-05	0.00E+00	0.00E+00	1.11E-05
296 ALL	UCART1	491390.3	3620779	NonCancer	0.00E+00	3.12E-08	9.90E-06	0.00E+00	0.00E+00	9.90E-06	3.12E-08	0.00E+00	3.12E-08	0.00E+00	0.00E+00	9.90E-06	0.00E+00	0.00E+00	9.90E-06
297 ALL	UCART1	491400	3620779	NonCancer	0.00E+00	2.82E-08	8.92E-06	0.00E+00	0.00E+00	8.92E-06	2.82E-08	0.00E+00	2.82E-08	0.00E+00	0.00E+00	8.92E-06	0.00E+00	0.00E+00	8.92E-06
298 ALL	UCART1	491409.7	3620779	NonCancer	0.00E+00	2.63E-08	8.35E-06	0.00E+00	0.00E+00	8.35E-06	2.63E-08	0.00E+00	2.63E-08	0.00E+00	0.00E+00	8.35E-06	0.00E+00	0.00E+00	8.35E-06
299 ALL	UCART1	491419.3	3620779	NonCancer	0.00E+00	2.58E-08	8.17E-06	0.00E+00	0.00E+00	8.17E-06	2.58E-08	0.00E+00	2.58E-08	0.00E+00	0.00E+00	8.17E-06	0.00E+00	0.00E+00	8.17E-06
300 ALL	UCART1	491429	3620779	NonCancer	0.00E+00	2.49E-08	7.90E-06	0.00E+00	0.00E+00	7.90E-06	2.49E-08	0.00E+00	2.49E-08	0.00E+00	0.00E+00	7.90E-06	0.00E+00	0.00E+00	7.90E-06
301 ALL	UCART1	491438.7	3620779	NonCancer	0.00E+00	2.37E-08	7.52E-06	0.00E+00	0.00E+00	7.52E-06	2.37E-08	0.00E+00	2.37E-08	0.00E+00	0.00E+00	7.52E-06	0.00E+00	0.00E+00	7.52E-06
302 ALL	UCART1	491448.4	3620779	NonCancer	0.00E+00	2.22E-08	7.04E-06	0.00E+00	0.00E+00	7.04E-06	2.22E-08	0.00E+00	2.22E-08	0.00E+00	0.00E+00	7.04E-06	0.00E+00	0.00E+00	7.04E-06
303 ALL	UCART1	491458.1	3620779	NonCancer	0.00E+00	2.11E-08	6.69E-06	0.00E+00	0.00E+00	6.69E-06	2.11E-08	0.00E+00	2.11E-08	0.00E+00	0.00E+00	6.69E-06	0.00E+00	0.00E+00	6.69E-06
304 ALL	UCART1	491467.8	3620779	NonCancer	0.00E+00	2.05E-08	6.50E-06	0.00E+00	0.00E+00	6.50E-06	2.05E-08	0.00E+00	2.05E-08	0.00E+00	0.00E+00	6.50E-06	0.00E+00	0.00E+00	6.50E-06
305 ALL	UCART1	491477.5	3620779	NonCancer	0.00E+00	1.97E-08	6.24E-06	0.00E+00	0.00E+00	6.24E-06	1.97E-08	0.00E+00	1.97E-08	0.00E+00	0.00E+00	6.24E-06	0.00E+00	0.00E+00	6.24E-06
306 ALL	UCART1	491487.2	3620779	NonCancer	0.00E+00	1.89E-08	5.98E-06	0.00E+00	0.00E+00	5.98E-06	1.89E-08	0.00E+00	1.89E-08	0.00E+00	0.00E+00	5.98E-06	0.00E+00	0.00E+00	5.98E-06
307 ALL	UCART1	491496.9	3620779	NonCancer	0.00E+00	1.86E-08	5.90E-06	0.00E+00	0.00E+00	5.90E-06	1.86E-08	0.00E+00	1.86E-08	0.00E+00	0.00E+00	5.90E-06	0.00E+00	0.00E+00	5.90E-06
308 ALL	UCART1	491506.6	3620779	NonCancer	0.00E+00	1.84E-08	5.83E-06	0.00E+00	0.00E+00	5.83E-06	1.84E-08	0.00E+00	1.84E-08	0.00E+00	0.00E+00	5.83E-06	0.00E+00	0.00E+00	5.83E-06
309 ALL	UCART1	491516.2	3620779	NonCancer	0.00E+00	1.80E-08	5.72E-06	0.00E+00	0.00E+00	5.72E-06	1.80E-08	0.00E+00	1.80E-08	0.00E+00	0.00E+00	5.72E-06	0.00E+00	0.00E+00	5.72E-06
310 ALL	UCART1	491525.9	3620779	NonCancer	0.00E+00	1.76E-08	5.57E-06	0.00E+00	0.00E+00	5.57E-06	1.76E-08	0.00E+00	1.76E-08	0.00E+00	0.00E+00	5.57E-06	0.00E+00	0.00E+00	5.57E-06
311 ALL	UCART1	491535.6	3620779	NonCancer	0.00E+00	1.70E-08	5.38E-06	0.00E+00	0.00E+00	5.38E-06	1.70E-08	0.00E+00	1.70E-08	0.00E+00	0.00E+00	5.38E-06	0.00E+00	0.00E+00	5.38E-06
312 ALL	UCART1	491545.3	3620779	NonCancer	0.00E+00	1.63E-08	5.17E-06	0.00E+00	0.00E+00	5.17E-06	1.63E-08	0.00E+00	1.63E-08	0.00E+00	0.00E+00	5.17E-06	0.00E+00	0.00E+00	5.17E-06
313 ALL	UCART1	491555	3620779	NonCancer	0.00E+00	1.57E-08	4.97E-06	0.00E+00	0.00E+00	4.97E-06	1.57E-08	0.00E+00	1.57E-08	0.00E+00	0.00E+00	4.97E-06	0.00E+00	0.00E+00	4.97E-06
314 ALL	UCART1	491564.7	3620779	NonCancer	0.00E+00	1.53E-08	4.86E-06	0.00E+00	0.00E+00	4.86E-06	1.53E-08	0.00E+00	1.53E-08	0.00E+00	0.00E+00	4.86E-06	0.00E+00	0.00E+00	4.86E-06
315 ALL	UCART1	491574.4	3620779	NonCancer	0.00E+00	1.51E-08	4.78E-06	0.00E+00	0.00E+00	4.78E-06	1.51E-08	0.00E+00	1.51E-08	0.00E+00	0.00E+00	4.78E-06	0.00E+00	0.00E+00	4.78E-06
316 ALL	UCART1	491380.6	3620797	NonCancer	0.00E+00	3.24E-08	1.03E-05	0.00E+00	0.00E+00	1.03E-05	3.24E-08	0.00E+00	3.24E-08	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	1.03E-05
317 ALL	UCART1	491390.3	3620797	NonCancer	0.00E+00	3.06E-08	9.71E-06	0.00E+00	0.00E+00	9.71E-06	3.06E-08	0.00E+00	3.06E-08	0.00E+00	0.00E+00	9.71E-06	0.00E+00	0.00E+00	9.71E-06
318 ALL	UCART1	491400	3620797	NonCancer	0.00E+00	3.03E-08	9.60E-06	0.00E+00	0.00E+00	9.60E-06	3.03E-08	0.00E+00	3.03E-08	0.00E+00	0.00E+00	9.60E-06	0.00E+00	0.00E+00	9.60E-06
319 ALL	UCART1	491409.7	3620797	NonCancer	0.00E+00	2.91E-08	9.21E-06	0.00E+00	0.00E+00	9.21E-06	2.91E-08	0.00E+00	2.91E-08	0.00E+00	0.00E+00	9.21E-06	0.00E+00	0.00E+00	9.21E-06
320 ALL	UCART1	491419.3	3620797	NonCancer	0.00E+00	2.76E-08	8.75E-06	0.00E+00	0.00E+00	8.75E-06	2.76E-08	0.00E+00	2.76E-08	0.00E+00	0.00E+00	8.75E-06	0.00E+00	0.00E+00	8.75E-06
321 ALL	UCART1	491429	3620797	NonCancer	0.00E+00	2.61E-08	8.27E-06	0.00E+00	0.00E+00	8.27E-06	2.61E-08	0.00E+00	2.61E-08	0.00E+00	0.00E+00	8.27E-06	0.00E+00	0.00E+00	8.27E-06
322 ALL	UCART1	491438.7	3620797	NonCancer	0.00E+00	2.45E-08	7.77E-06	0.00E+00	0.00E+00	7.77E-06	2.45E-08	0.00E+00	2.45E-08	0.00E+00	0.00E+00	7.77E-06	0.00E+00	0.00E+00	7.77E-06
323 ALL	UCART1	491448.4	3620797	NonCancer	0.00E+00	2.29E-08	7.25E-06	0.00E+00	0.00E+00	7.25E-06	2.29E-08	0.00E+00	2.29E-08	0.00E+00	0.00E+00	7.25E-06	0.00E+00	0.00E+00	7.25E-06
324 ALL	UCART1	491458.1	3620797	NonCancer	0.00E+00	2.12E-08	6.73E-06	0.00E+00	0.00E+00	6.73E-06	2.12E-08	0.00E+00	2.12E-08	0.					

330	ALL	UCART1	491516.2	3620797	NonCancer	0.00E+00	1.90E-08	6.04E-06	0.00E+00	0.00E+00	6.04E-06	1.90E-08	0.00E+00	1.90E-08	0.00E+00	0.00E+00	6.04E-06	0.00E+00	0.00E+00	6.04E-06
331	ALL	UCART1	491525.9	3620797	NonCancer	0.00E+00	1.84E-08	5.84E-06	0.00E+00	0.00E+00	5.84E-06	1.84E-08	0.00E+00	1.84E-08	0.00E+00	0.00E+00	5.84E-06	0.00E+00	0.00E+00	5.84E-06
332	ALL	UCART1	491535.6	3620797	NonCancer	0.00E+00	1.78E-08	5.63E-06	0.00E+00	0.00E+00	5.63E-06	1.78E-08	0.00E+00	1.78E-08	0.00E+00	0.00E+00	5.63E-06	0.00E+00	0.00E+00	5.63E-06
333	ALL	UCART1	491545.3	3620797	NonCancer	0.00E+00	1.72E-08	5.46E-06	0.00E+00	0.00E+00	5.46E-06	1.72E-08	0.00E+00	1.72E-08	0.00E+00	0.00E+00	5.46E-06	0.00E+00	0.00E+00	5.46E-06
334	ALL	UCART1	491555	3620797	NonCancer	0.00E+00	1.68E-08	5.33E-06	0.00E+00	0.00E+00	5.33E-06	1.68E-08	0.00E+00	1.68E-08	0.00E+00	0.00E+00	5.33E-06	0.00E+00	0.00E+00	5.33E-06
335	ALL	UCART1	491564.7	3620797	NonCancer	0.00E+00	1.65E-08	5.24E-06	0.00E+00	0.00E+00	5.24E-06	1.65E-08	0.00E+00	1.65E-08	0.00E+00	0.00E+00	5.24E-06	0.00E+00	0.00E+00	5.24E-06
336	ALL	UCART1	491574.4	3620797	NonCancer	0.00E+00	1.63E-08	5.16E-06	0.00E+00	0.00E+00	5.16E-06	1.63E-08	0.00E+00	1.63E-08	0.00E+00	0.00E+00	5.16E-06	0.00E+00	0.00E+00	5.16E-06
337	ALL	UCART1	491380.6	3620815	NonCancer	0.00E+00	3.29E-08	1.04E-05	0.00E+00	0.00E+00	1.04E-05	3.29E-08	0.00E+00	3.29E-08	0.00E+00	0.00E+00	1.04E-05	0.00E+00	0.00E+00	1.04E-05
338	ALL	UCART1	491390.3	3620815	NonCancer	0.00E+00	3.41E-08	1.08E-05	0.00E+00	0.00E+00	1.08E-05	3.41E-08	0.00E+00	3.41E-08	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	1.08E-05
339	ALL	UCART1	491400	3620815	NonCancer	0.00E+00	3.10E-08	9.83E-06	0.00E+00	0.00E+00	9.83E-06	3.10E-08	0.00E+00	3.10E-08	0.00E+00	0.00E+00	9.83E-06	0.00E+00	0.00E+00	9.83E-06
340	ALL	UCART1	491409.7	3620815	NonCancer	0.00E+00	2.91E-08	9.21E-06	0.00E+00	0.00E+00	9.21E-06	2.91E-08	0.00E+00	2.91E-08	0.00E+00	0.00E+00	9.21E-06	0.00E+00	0.00E+00	9.21E-06
341	ALL	UCART1	491419.3	3620815	NonCancer	0.00E+00	2.75E-08	8.72E-06	0.00E+00	0.00E+00	8.72E-06	2.75E-08	0.00E+00	2.75E-08	0.00E+00	0.00E+00	8.72E-06	0.00E+00	0.00E+00	8.72E-06
342	ALL	UCART1	491429	3620815	NonCancer	0.00E+00	2.61E-08	8.26E-06	0.00E+00	0.00E+00	8.26E-06	2.61E-08	0.00E+00	2.61E-08	0.00E+00	0.00E+00	8.26E-06	0.00E+00	0.00E+00	8.26E-06
343	ALL	UCART1	491438.7	3620815	NonCancer	0.00E+00	2.48E-08	7.85E-06	0.00E+00	0.00E+00	7.85E-06	2.48E-08	0.00E+00	2.48E-08	0.00E+00	0.00E+00	7.85E-06	0.00E+00	0.00E+00	7.85E-06
344	ALL	UCART1	491448.4	3620815	NonCancer	0.00E+00	2.35E-08	7.46E-06	0.00E+00	0.00E+00	7.46E-06	2.35E-08	0.00E+00	2.35E-08	0.00E+00	0.00E+00	7.46E-06	0.00E+00	0.00E+00	7.46E-06
345	ALL	UCART1	491458.1	3620815	NonCancer	0.00E+00	2.24E-08	7.11E-06	0.00E+00	0.00E+00	7.11E-06	2.24E-08	0.00E+00	2.24E-08	0.00E+00	0.00E+00	7.11E-06	0.00E+00	0.00E+00	7.11E-06
346	ALL	UCART1	491467.8	3620815	NonCancer	0.00E+00	2.14E-08	6.79E-06	0.00E+00	0.00E+00	6.79E-06	2.14E-08	0.00E+00	2.14E-08	0.00E+00	0.00E+00	6.79E-06	0.00E+00	0.00E+00	6.79E-06
347	ALL	UCART1	491477.5	3620815	NonCancer	0.00E+00	2.05E-08	6.49E-06	0.00E+00	0.00E+00	6.49E-06	2.05E-08	0.00E+00	2.05E-08	0.00E+00	0.00E+00	6.49E-06	0.00E+00	0.00E+00	6.49E-06
348	ALL	UCART1	491487.2	3620815	NonCancer	0.00E+00	2.00E-08	6.35E-06	0.00E+00	0.00E+00	6.35E-06	2.00E-08	0.00E+00	2.00E-08	0.00E+00	0.00E+00	6.35E-06	0.00E+00	0.00E+00	6.35E-06
349	ALL	UCART1	491496.9	3620815	NonCancer	0.00E+00	1.95E-08	6.19E-06	0.00E+00	0.00E+00	6.19E-06	1.95E-08	0.00E+00	1.95E-08	0.00E+00	0.00E+00	6.19E-06	0.00E+00	0.00E+00	6.19E-06
350	ALL	UCART1	491506.6	3620815	NonCancer	0.00E+00	1.90E-08	6.03E-06	0.00E+00	0.00E+00	6.03E-06	1.90E-08	0.00E+00	1.90E-08	0.00E+00	0.00E+00	6.03E-06	0.00E+00	0.00E+00	6.03E-06
351	ALL	UCART1	491516.2	3620815	NonCancer	0.00E+00	1.84E-08	5.83E-06	0.00E+00	0.00E+00	5.83E-06	1.84E-08	0.00E+00	1.84E-08	0.00E+00	0.00E+00	5.83E-06	0.00E+00	0.00E+00	5.83E-06
352	ALL	UCART1	491525.9	3620815	NonCancer	0.00E+00	1.79E-08	5.66E-06	0.00E+00	0.00E+00	5.66E-06	1.79E-08	0.00E+00	1.79E-08	0.00E+00	0.00E+00	5.66E-06	0.00E+00	0.00E+00	5.66E-06
353	ALL	UCART1	491535.6	3620815	NonCancer	0.00E+00	1.73E-08	5.48E-06	0.00E+00	0.00E+00	5.48E-06	1.73E-08	0.00E+00	1.73E-08	0.00E+00	0.00E+00	5.48E-06	0.00E+00	0.00E+00	5.48E-06
354	ALL	UCART1	491545.3	3620815	NonCancer	0.00E+00	1.68E-08	5.31E-06	0.00E+00	0.00E+00	5.31E-06	1.68E-08	0.00E+00	1.68E-08	0.00E+00	0.00E+00	5.31E-06	0.00E+00	0.00E+00	5.31E-06
355	ALL	UCART1	491555	3620815	NonCancer	0.00E+00	1.63E-08	5.15E-06	0.00E+00	0.00E+00	5.15E-06	1.63E-08	0.00E+00	1.63E-08	0.00E+00	0.00E+00	5.15E-06	0.00E+00	0.00E+00	5.15E-06
356	ALL	UCART1	491564.7	3620815	NonCancer	0.00E+00	1.61E-08	5.09E-06	0.00E+00	0.00E+00	5.09E-06	1.61E-08	0.00E+00	1.61E-08	0.00E+00	0.00E+00	5.09E-06	0.00E+00	0.00E+00	5.09E-06
357	ALL	UCART1	491574.4	3620815	NonCancer	0.00E+00	1.59E-08	5.04E-06	0.00E+00	0.00E+00	5.04E-06	1.59E-08	0.00E+00	1.59E-08	0.00E+00	0.00E+00	5.04E-06	0.00E+00	0.00E+00	5.04E-06
358	ALL	UCART1	491380.6	3620833	NonCancer	0.00E+00	3.52E-08	1.12E-05	0.00E+00	0.00E+00	1.12E-05	3.52E-08	0.00E+00	3.52E-08	0.00E+00	0.00E+00	1.12E-05	0.00E+00	0.00E+00	1.12E-05
359	ALL	UCART1	491390.3	3620833	NonCancer	0.00E+00	3.29E-08	1.04E-05	0.00E+00	0.00E+00	1.04E-05	3.29E-08	0.00E+00	3.29E-08	0.00E+00	0.00E+00	1.04E-05	0.00E+00	0.00E+00	1.04E-05
360	ALL	UCART1	491400	3620833	NonCancer	0.00E+00	3.11E-08	9.86E-06	0.00E+00	0.00E+00	9.86E-06	3.11E-08	0.00E+00	3.11E-08	0.00E+00	0.00E+00	9.86E-06	0.00E+00	0.00E+00	9.86E-06
361	ALL	UCART1	491409.7	3620833	NonCancer	0.00E+00	3.07E-08	9.74E-06	0.00E+00	0.00E+00	9.74E-06	3.07E-08	0.00E+00	3.07E-08	0.00E+00	0.00E+00	9.74E-06	0.00E+00	0.00E+00	9.74E-06
362	ALL	UCART1	491419.3	3620833	NonCancer	0.00E+00	2.89E-08	9.17E-06	0.00E+00	0.00E+00	9.17E-06	2.89E-08	0.00E+00	2.89E-08	0.00E+00	0.00E+00	9.17E-06	0.00E+00	0.00E+00	9.17E-06
363	ALL	UCART1	491429	3620833	NonCancer	0.00E+00	2.74E-08	8.69E-06	0.00E+00	0.00E+00	8.69E-06	2.74E-08	0.00E+00	2.74E-08	0.00E+00	0.00E+00	8.69E-06	0.00E+00	0.00E+00	8.69E-06
364	ALL	UCART1	491438.7	3620833	NonCancer	0.00E+00	2.60E-08	8.25E-06	0.00E+00	0.00E+00	8.25E-06	2.60E-08	0.00E+00	2.60E-08	0.00E+00	0.00E+00	8.25E-06	0.00E+00	0.00E+00	8.25E-06
365	ALL	UCART1	491448.4	3620833	NonCancer	0.00E+00	2.48E-08	7.87E-06	0.00E+00	0.00E+00	7.87E-06	2.48E-08	0.00E+00	2.48E-08	0.00E+00	0.00E+00	7.87E-06	0.00E+00	0.00E+00	7.87E-06
366	ALL	UCART1	491458.1	3620833	NonCancer	0.00E+00	2.37E-08	7.52E-06	0.00E+00	0.00E+00	7.52E-06	2.37E-08	0.00E+00	2.37E-08	0.00E+00	0.00E+00	7.52E-06	0.00E+00	0.00E+00	7.52E-06
367	ALL	UCART1	491467.8	3620833	NonCancer	0.00E+00	2.27E-08	7.20E-06	0.00E+00	0.00E+00	7.20E-06	2.27E-08	0.00E+00	2.27E-08	0.00E+00	0.00E+00	7.20E-06	0.00E+00	0.00E+00	7.20E-06
368	ALL	UCART1	491477.5	3620833	NonCancer	0.00E+00	2.18E-08	6.93E-06	0.00E+00	0.00E+00	6.93E-06	2.18E-08	0.00E+00	2.18E-08	0.00E+00	0.00E+00	6.93E-06	0.00E+00	0.00E+00	6.93E-06
369	ALL	UCART1	491487.2	3620833	NonCancer	0.00E+00	2.11E-08	6.69E-06	0.00E+00	0.00E+00	6.69E-06	2.11E-08	0.00E+00	2.11E-08	0.00E+00	0.00E+00	6.69E-06	0.00E+00	0.00E+00	6.69E-06
370	ALL	UCART1	491496.9	3620833	NonCancer	0.00E+00	2.04E-08	6.46E-06	0.00E+00	0.00E+00	6.46E-06	2.04E-08	0.00E+00	2.04E-08	0.00E+00	0.00E+00	6.46E-06	0.00E+00	0.00E+00	6.46E-06
371	ALL	UCART1	491506.6	3620833	NonCancer	0.00E+00	1.96E-08	6.22E-06	0.00E+00	0.00E+00	6.22E-06	1.96E-08	0.00E+00	1.96E-08	0.00E+00	0.00E+00	6.22E-06	0.00E+00	0.00E+00	6.22E-06
372	ALL	UCART1	491516.2	3620833	NonCancer	0.00E+00	1.89E-08	6.00E-06	0.00E+00	0.00E+00	6.00E-06	1.89E-08	0.00E+00	1.89E-08	0.00E+00	0.00E+00	6.00E-06	0.00E+00	0.00E+00	6.00E-06
373	ALL	UCART1	491525.9	3620833	NonCancer	0.00E+00	1.82E-08	5.77E-06	0.00E+00	0.00E+00	5.77E-06	1.82E-08	0.00E+00	1.82E-08	0.00E+00	0.00E+00	5.77E-06	0.00E+00	0.00E+00	5.77E-06
374	ALL	UCART1	491535.6	3620833	NonCancer	0.00E+00	1.76E-08	5.57E-06	0.00E+00	0.00E+00	5.57E-06	1.76E-08	0.00E+00	1.76E-08	0.00E+00	0.00E+00	5.57E-06	0.00E+00	0.00E+00	5.57E-06
375	ALL	UCART1	491545.3	3620833	NonCancer	0.00E+00	1.70E-08	5.40E-06	0.00E+00	0.00E+00	5.40E-06	1.70E-08	0.00E+00	1.70E-08	0.00E+00	0.00E+00	5.40E-06	0.00E+00	0.00E+00	5.40E-06
376	ALL	UCART1	491555	3620833	NonCancer	0.00E+00	1.65E-08	5.24E-06	0.00E+00	0.00E+00	5.24E-06	1.65E-08	0.00E+00	1.65E-08	0.00E+00	0.00E+00	5.24E-06	0.00E+00	0.00E+00	5.24E-06
377	ALL	UCART1	491564.7	3620833	NonCancer	0.00E+00	1.61E-08	5.11E-06	0.00E+00	0.00E+00	5.11E-06	1.61E-08	0.00E+00	1.61E-08	0.00E+00	0.00E+00	5.11E-06	0.00E+00	0.00E+00	5.11E-06
378	ALL	UCART1	491574.4	3620833	NonCancer	0.00E+00	1.57E-08	4.99E-06	0.00E+00	0.00E+00	4.99E-06	1.57E-08	0.00E+00	1.57E-08	0.00					

385	ALL	UCART1	491438.7	3620851	NonCancer	0.00E+00	2.97E-08	9.41E-06	0.00E+00	0.00E+00	9.41E-06	2.97E-08	0.00E+00	2.97E-08	0.00E+00	0.00E+00	9.41E-06	0.00E+00	0.00E+00	9.41E-06
386	ALL	UCART1	491448.4	3620851	NonCancer	0.00E+00	2.81E-08	8.91E-06	0.00E+00	0.00E+00	8.91E-06	2.81E-08	0.00E+00	2.81E-08	0.00E+00	0.00E+00	8.91E-06	0.00E+00	0.00E+00	8.91E-06
387	ALL	UCART1	491458.1	3620851	NonCancer	0.00E+00	2.65E-08	8.40E-06	0.00E+00	0.00E+00	8.40E-06	2.65E-08	0.00E+00	2.65E-08	0.00E+00	0.00E+00	8.40E-06	0.00E+00	0.00E+00	8.40E-06
388	ALL	UCART1	491467.8	3620851	NonCancer	0.00E+00	2.53E-08	8.03E-06	0.00E+00	0.00E+00	8.03E-06	2.53E-08	0.00E+00	2.53E-08	0.00E+00	0.00E+00	8.03E-06	0.00E+00	0.00E+00	8.03E-06
389	ALL	UCART1	491477.5	3620851	NonCancer	0.00E+00	2.43E-08	7.69E-06	0.00E+00	0.00E+00	7.69E-06	2.43E-08	0.00E+00	2.43E-08	0.00E+00	0.00E+00	7.69E-06	0.00E+00	0.00E+00	7.69E-06
390	ALL	UCART1	491487.2	3620851	NonCancer	0.00E+00	2.32E-08	7.36E-06	0.00E+00	0.00E+00	7.36E-06	2.32E-08	0.00E+00	2.32E-08	0.00E+00	0.00E+00	7.36E-06	0.00E+00	0.00E+00	7.36E-06
391	ALL	UCART1	491496.9	3620851	NonCancer	0.00E+00	2.22E-08	7.03E-06	0.00E+00	0.00E+00	7.03E-06	2.22E-08	0.00E+00	2.22E-08	0.00E+00	0.00E+00	7.03E-06	0.00E+00	0.00E+00	7.03E-06
392	ALL	UCART1	491506.6	3620851	NonCancer	0.00E+00	2.11E-08	6.68E-06	0.00E+00	0.00E+00	6.68E-06	2.11E-08	0.00E+00	2.11E-08	0.00E+00	0.00E+00	6.68E-06	0.00E+00	0.00E+00	6.68E-06
393	ALL	UCART1	491516.2	3620851	NonCancer	0.00E+00	1.99E-08	6.32E-06	0.00E+00	0.00E+00	6.32E-06	1.99E-08	0.00E+00	1.99E-08	0.00E+00	0.00E+00	6.32E-06	0.00E+00	0.00E+00	6.32E-06
394	ALL	UCART1	491525.9	3620851	NonCancer	0.00E+00	1.88E-08	5.97E-06	0.00E+00	0.00E+00	5.97E-06	1.88E-08	0.00E+00	1.88E-08	0.00E+00	0.00E+00	5.97E-06	0.00E+00	0.00E+00	5.97E-06
395	ALL	UCART1	491535.6	3620851	NonCancer	0.00E+00	1.81E-08	5.73E-06	0.00E+00	0.00E+00	5.73E-06	1.81E-08	0.00E+00	1.81E-08	0.00E+00	0.00E+00	5.73E-06	0.00E+00	0.00E+00	5.73E-06
396	ALL	UCART1	491545.3	3620851	NonCancer	0.00E+00	1.74E-08	5.52E-06	0.00E+00	0.00E+00	5.52E-06	1.74E-08	0.00E+00	1.74E-08	0.00E+00	0.00E+00	5.52E-06	0.00E+00	0.00E+00	5.52E-06
397	ALL	UCART1	491555	3620851	NonCancer	0.00E+00	1.68E-08	5.33E-06	0.00E+00	0.00E+00	5.33E-06	1.68E-08	0.00E+00	1.68E-08	0.00E+00	0.00E+00	5.33E-06	0.00E+00	0.00E+00	5.33E-06
398	ALL	UCART1	491564.7	3620851	NonCancer	0.00E+00	1.62E-08	5.13E-06	0.00E+00	0.00E+00	5.13E-06	1.62E-08	0.00E+00	1.62E-08	0.00E+00	0.00E+00	5.13E-06	0.00E+00	0.00E+00	5.13E-06
399	ALL	UCART1	491574.4	3620851	NonCancer	0.00E+00	1.57E-08	4.97E-06	0.00E+00	0.00E+00	4.97E-06	1.57E-08	0.00E+00	1.57E-08	0.00E+00	0.00E+00	4.97E-06	0.00E+00	0.00E+00	4.97E-06
400	ALL	UCART1	491380.6	3620869	NonCancer	0.00E+00	4.15E-08	1.31E-05	0.00E+00	0.00E+00	1.31E-05	4.15E-08	0.00E+00	4.15E-08	0.00E+00	0.00E+00	1.31E-05	0.00E+00	0.00E+00	1.31E-05
401	ALL	UCART1	491390.3	3620869	NonCancer	0.00E+00	3.75E-08	1.19E-05	0.00E+00	0.00E+00	1.19E-05	3.75E-08	0.00E+00	3.75E-08	0.00E+00	0.00E+00	1.19E-05	0.00E+00	0.00E+00	1.19E-05
402	ALL	UCART1	491400	3620869	NonCancer	0.00E+00	3.58E-08	1.14E-05	0.00E+00	0.00E+00	1.14E-05	3.58E-08	0.00E+00	3.58E-08	0.00E+00	0.00E+00	1.14E-05	0.00E+00	0.00E+00	1.14E-05
403	ALL	UCART1	491409.7	3620869	NonCancer	0.00E+00	3.36E-08	1.07E-05	0.00E+00	0.00E+00	1.07E-05	3.36E-08	0.00E+00	3.36E-08	0.00E+00	0.00E+00	1.07E-05	0.00E+00	0.00E+00	1.07E-05
404	ALL	UCART1	491419.3	3620869	NonCancer	0.00E+00	3.11E-08	9.85E-06	0.00E+00	0.00E+00	9.85E-06	3.11E-08	0.00E+00	3.11E-08	0.00E+00	0.00E+00	9.85E-06	0.00E+00	0.00E+00	9.85E-06
405	ALL	UCART1	491429	3620869	NonCancer	0.00E+00	2.87E-08	9.11E-06	0.00E+00	0.00E+00	9.11E-06	2.87E-08	0.00E+00	2.87E-08	0.00E+00	0.00E+00	9.11E-06	0.00E+00	0.00E+00	9.11E-06
406	ALL	UCART1	491438.7	3620869	NonCancer	0.00E+00	2.76E-08	8.74E-06	0.00E+00	0.00E+00	8.74E-06	2.76E-08	0.00E+00	2.76E-08	0.00E+00	0.00E+00	8.74E-06	0.00E+00	0.00E+00	8.74E-06
407	ALL	UCART1	491448.4	3620869	NonCancer	0.00E+00	2.62E-08	8.30E-06	0.00E+00	0.00E+00	8.30E-06	2.62E-08	0.00E+00	2.62E-08	0.00E+00	0.00E+00	8.30E-06	0.00E+00	0.00E+00	8.30E-06
408	ALL	UCART1	491458.1	3620869	NonCancer	0.00E+00	2.55E-08	8.08E-06	0.00E+00	0.00E+00	8.08E-06	2.55E-08	0.00E+00	2.55E-08	0.00E+00	0.00E+00	8.08E-06	0.00E+00	0.00E+00	8.08E-06
409	ALL	UCART1	491467.8	3620869	NonCancer	0.00E+00	2.50E-08	7.92E-06	0.00E+00	0.00E+00	7.92E-06	2.50E-08	0.00E+00	2.50E-08	0.00E+00	0.00E+00	7.92E-06	0.00E+00	0.00E+00	7.92E-06
410	ALL	UCART1	491477.5	3620869	NonCancer	0.00E+00	2.43E-08	7.71E-06	0.00E+00	0.00E+00	7.71E-06	2.43E-08	0.00E+00	2.43E-08	0.00E+00	0.00E+00	7.71E-06	0.00E+00	0.00E+00	7.71E-06
411	ALL	UCART1	491487.2	3620869	NonCancer	0.00E+00	2.36E-08	7.47E-06	0.00E+00	0.00E+00	7.47E-06	2.36E-08	0.00E+00	2.36E-08	0.00E+00	0.00E+00	7.47E-06	0.00E+00	0.00E+00	7.47E-06
412	ALL	UCART1	491496.9	3620869	NonCancer	0.00E+00	2.27E-08	7.19E-06	0.00E+00	0.00E+00	7.19E-06	2.27E-08	0.00E+00	2.27E-08	0.00E+00	0.00E+00	7.19E-06	0.00E+00	0.00E+00	7.19E-06
413	ALL	UCART1	491506.6	3620869	NonCancer	0.00E+00	2.17E-08	6.89E-06	0.00E+00	0.00E+00	6.89E-06	2.17E-08	0.00E+00	2.17E-08	0.00E+00	0.00E+00	6.89E-06	0.00E+00	0.00E+00	6.89E-06
414	ALL	UCART1	491516.2	3620869	NonCancer	0.00E+00	2.07E-08	6.56E-06	0.00E+00	0.00E+00	6.56E-06	2.07E-08	0.00E+00	2.07E-08	0.00E+00	0.00E+00	6.56E-06	0.00E+00	0.00E+00	6.56E-06
415	ALL	UCART1	491525.9	3620869	NonCancer	0.00E+00	1.96E-08	6.23E-06	0.00E+00	0.00E+00	6.23E-06	1.96E-08	0.00E+00	1.96E-08	0.00E+00	0.00E+00	6.23E-06	0.00E+00	0.00E+00	6.23E-06
416	ALL	UCART1	491535.6	3620869	NonCancer	0.00E+00	1.89E-08	5.98E-06	0.00E+00	0.00E+00	5.98E-06	1.89E-08	0.00E+00	1.89E-08	0.00E+00	0.00E+00	5.98E-06	0.00E+00	0.00E+00	5.98E-06
417	ALL	UCART1	491545.3	3620869	NonCancer	0.00E+00	1.82E-08	5.77E-06	0.00E+00	0.00E+00	5.77E-06	1.82E-08	0.00E+00	1.82E-08	0.00E+00	0.00E+00	5.77E-06	0.00E+00	0.00E+00	5.77E-06
418	ALL	UCART1	491555	3620869	NonCancer	0.00E+00	1.78E-08	5.65E-06	0.00E+00	0.00E+00	5.65E-06	1.78E-08	0.00E+00	1.78E-08	0.00E+00	0.00E+00	5.65E-06	0.00E+00	0.00E+00	5.65E-06
419	ALL	UCART1	491564.7	3620869	NonCancer	0.00E+00	1.78E-08	5.65E-06	0.00E+00	0.00E+00	5.65E-06	1.78E-08	0.00E+00	1.78E-08	0.00E+00	0.00E+00	5.65E-06	0.00E+00	0.00E+00	5.65E-06
420	ALL	UCART1	491574.4	3620869	NonCancer	0.00E+00	1.71E-08	5.43E-06	0.00E+00	0.00E+00	5.43E-06	1.71E-08	0.00E+00	1.71E-08	0.00E+00	0.00E+00	5.43E-06	0.00E+00	0.00E+00	5.43E-06
421	ALL	UCART1	491380.6	3620887	NonCancer	0.00E+00	4.12E-08	1.31E-05	0.00E+00	0.00E+00	1.31E-05	4.12E-08	0.00E+00	4.12E-08	0.00E+00	0.00E+00	1.31E-05	0.00E+00	0.00E+00	1.31E-05
422	ALL	UCART1	491390.3	3620887	NonCancer	0.00E+00	3.78E-08	1.20E-05	0.00E+00	0.00E+00	1.20E-05	3.78E-08	0.00E+00	3.78E-08	0.00E+00	0.00E+00	1.20E-05	0.00E+00	0.00E+00	1.20E-05
423	ALL	UCART1	491400	3620887	NonCancer	0.00E+00	3.74E-08	1.19E-05	0.00E+00	0.00E+00	1.19E-05	3.74E-08	0.00E+00	3.74E-08	0.00E+00	0.00E+00	1.19E-05	0.00E+00	0.00E+00	1.19E-05
424	ALL	UCART1	491409.7	3620887	NonCancer	0.00E+00	3.63E-08	1.15E-05	0.00E+00	0.00E+00	1.15E-05	3.63E-08	0.00E+00	3.63E-08	0.00E+00	0.00E+00	1.15E-05	0.00E+00	0.00E+00	1.15E-05
425	ALL	UCART1	491419.3	3620887	NonCancer	0.00E+00	3.18E-08	1.01E-05	0.00E+00	0.00E+00	1.01E-05	3.18E-08	0.00E+00	3.18E-08	0.00E+00	0.00E+00	1.01E-05	0.00E+00	0.00E+00	1.01E-05
426	ALL	UCART1	491429	3620887	NonCancer	0.00E+00	2.96E-08	9.37E-06	0.00E+00	0.00E+00	9.37E-06	2.96E-08	0.00E+00	2.96E-08	0.00E+00	0.00E+00	9.37E-06	0.00E+00	0.00E+00	9.37E-06
427	ALL	UCART1	491438.7	3620887	NonCancer	0.00E+00	2.95E-08	9.34E-06	0.00E+00	0.00E+00	9.34E-06	2.95E-08	0.00E+00	2.95E-08	0.00E+00	0.00E+00	9.34E-06	0.00E+00	0.00E+00	9.34E-06
428	ALL	UCART1	491448.4	3620887	NonCancer	0.00E+00	2.78E-08	8.82E-06	0.00E+00	0.00E+00	8.82E-06	2.78E-08	0.00E+00	2.78E-08	0.00E+00	0.00E+00	8.82E-06	0.00E+00	0.00E+00	8.82E-06
429	ALL	UCART1	491458.1	3620887	NonCancer	0.00E+00	2.65E-08	8.40E-06	0.00E+00	0.00E+00	8.40E-06	2.65E-08	0.00E+00	2.65E-08	0.00E+00	0.00E+00	8.40E-06	0.00E+00	0.00E+00	8.40E-06
430	ALL	UCART1	491467.8	3620887	NonCancer	0.00E+00	2.51E-08	7.97E-06	0.00E+00	0.00E+00	7.97E-06	2.51E-08	0.00E+00	2.51E-08	0.00E+00	0.00E+00	7.97E-06	0.00E+00	0.00E+00	7.97E-06
431	ALL	UCART1	491477.5	3620887	NonCancer	0.00E+00	2.44E-08	7.72E-06	0.00E+00	0.00E+00	7.72E-06	2.44E-08	0.00E+00	2.44E-08	0.00E+00	0.00E+00	7.72E-06	0.00E+00	0.00E+00	7.72E-06
432	ALL	UCART1	491487.2	3620887	NonCancer	0.00E+00	2.32E-08	7.35E-06	0.00E+00	0.00E+00	7.35E-06	2.32E-08	0.00E+00	2.32E-08	0.00E+00	0.00E+00	7.35E-06	0.00E+00	0.00E+00	7.35E-06
433	ALL	UCART1	491496.9	3620887	NonCancer	0.00E+00	2.19E-08	6.96E-06	0.00E+00	0.00E+00	6.96E-06	2.19E-08	0.00E+00	2.19E-08	0.					

440	ALL	UCART1	491564.7	3620887	NonCancer	0.00E+00	1.78E-08	5.64E-06	0.00E+00	0.00E+00	5.64E-06	1.78E-08	0.00E+00	1.78E-08	0.00E+00	0.00E+00	5.64E-06	0.00E+00	0.00E+00	5.64E-06
441	ALL	UCART1	491574.4	3620887	NonCancer	0.00E+00	1.88E-08	5.96E-06	0.00E+00	0.00E+00	5.96E-06	1.88E-08	0.00E+00	1.88E-08	0.00E+00	0.00E+00	5.96E-06	0.00E+00	0.00E+00	5.96E-06
442	ALL		490849.2	3620945	NonCancer	0.00E+00	1.39E-08	4.41E-06	0.00E+00	0.00E+00	4.41E-06	1.39E-08	0.00E+00	1.39E-08	0.00E+00	0.00E+00	4.41E-06	0.00E+00	0.00E+00	4.41E-06
443	ALL		490856.4	3620922	NonCancer	0.00E+00	1.44E-08	4.58E-06	0.00E+00	0.00E+00	4.58E-06	1.44E-08	0.00E+00	1.44E-08	0.00E+00	0.00E+00	4.58E-06	0.00E+00	0.00E+00	4.58E-06
444	ALL		490865.9	3620906	NonCancer	0.00E+00	1.58E-08	5.01E-06	0.00E+00	0.00E+00	5.01E-06	1.58E-08	0.00E+00	1.58E-08	0.00E+00	0.00E+00	5.01E-06	0.00E+00	0.00E+00	5.01E-06
445	ALL		490894.3	3620929	NonCancer	0.00E+00	1.57E-08	4.99E-06	0.00E+00	0.00E+00	4.99E-06	1.57E-08	0.00E+00	1.57E-08	0.00E+00	0.00E+00	4.99E-06	0.00E+00	0.00E+00	4.99E-06
446	ALL		490890	3620953	NonCancer	0.00E+00	1.52E-08	4.82E-06	0.00E+00	0.00E+00	4.82E-06	1.52E-08	0.00E+00	1.52E-08	0.00E+00	0.00E+00	4.82E-06	0.00E+00	0.00E+00	4.82E-06
447	ALL		490887.8	3620979	NonCancer	0.00E+00	1.45E-08	4.61E-06	0.00E+00	0.00E+00	4.61E-06	1.45E-08	0.00E+00	1.45E-08	0.00E+00	0.00E+00	4.61E-06	0.00E+00	0.00E+00	4.61E-06
448	ALL		490903.1	3620989	NonCancer	0.00E+00	1.41E-08	4.47E-06	0.00E+00	0.00E+00	4.47E-06	1.41E-08	0.00E+00	1.41E-08	0.00E+00	0.00E+00	4.47E-06	0.00E+00	0.00E+00	4.47E-06
449	ALL		490912.6	3621006	NonCancer	0.00E+00	1.41E-08	4.45E-06	0.00E+00	0.00E+00	4.45E-06	1.41E-08	0.00E+00	1.41E-08	0.00E+00	0.00E+00	4.45E-06	0.00E+00	0.00E+00	4.45E-06
450	ALL		490923.5	3621026	NonCancer	0.00E+00	1.34E-08	4.24E-06	0.00E+00	0.00E+00	4.24E-06	1.34E-08	0.00E+00	1.34E-08	0.00E+00	0.00E+00	4.24E-06	0.00E+00	0.00E+00	4.24E-06
451	ALL		490929.3	3621045	NonCancer	0.00E+00	1.28E-08	4.07E-06	0.00E+00	0.00E+00	4.07E-06	1.28E-08	0.00E+00	1.28E-08	0.00E+00	0.00E+00	4.07E-06	0.00E+00	0.00E+00	4.07E-06
452	ALL		490936.6	3621069	NonCancer	0.00E+00	1.25E-08	3.98E-06	0.00E+00	0.00E+00	3.98E-06	1.25E-08	0.00E+00	1.25E-08	0.00E+00	0.00E+00	3.98E-06	0.00E+00	0.00E+00	3.98E-06
453	ALL		490956.3	3621064	NonCancer	0.00E+00	1.22E-08	3.86E-06	0.00E+00	0.00E+00	3.86E-06	1.22E-08	0.00E+00	1.22E-08	0.00E+00	0.00E+00	3.86E-06	0.00E+00	0.00E+00	3.86E-06
454	ALL		490973.1	3621065	NonCancer	0.00E+00	1.27E-08	4.01E-06	0.00E+00	0.00E+00	4.01E-06	1.27E-08	0.00E+00	1.27E-08	0.00E+00	0.00E+00	4.01E-06	0.00E+00	0.00E+00	4.01E-06
455	ALL		490990.5	3621069	NonCancer	0.00E+00	1.23E-08	3.91E-06	0.00E+00	0.00E+00	3.91E-06	1.23E-08	0.00E+00	1.23E-08	0.00E+00	0.00E+00	3.91E-06	0.00E+00	0.00E+00	3.91E-06
456	ALL		491008	3621067	NonCancer	0.00E+00	1.41E-08	4.48E-06	0.00E+00	0.00E+00	4.48E-06	1.41E-08	0.00E+00	1.41E-08	0.00E+00	0.00E+00	4.48E-06	0.00E+00	0.00E+00	4.48E-06
457	ALL		491066.3	3621082	NonCancer	0.00E+00	3.71E-08	1.18E-05	0.00E+00	0.00E+00	1.18E-05	3.71E-08	0.00E+00	3.71E-08	0.00E+00	0.00E+00	1.18E-05	0.00E+00	0.00E+00	1.18E-05
458	ALL		491058.3	3621096	NonCancer	0.00E+00	3.45E-08	1.10E-05	0.00E+00	0.00E+00	1.10E-05	3.45E-08	0.00E+00	3.45E-08	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	1.10E-05
459	ALL		491055.4	3621110	NonCancer	0.00E+00	3.51E-08	1.11E-05	0.00E+00	0.00E+00	1.11E-05	3.51E-08	0.00E+00	3.51E-08	0.00E+00	0.00E+00	1.11E-05	0.00E+00	0.00E+00	1.11E-05
460	ALL		491055.4	3621127	NonCancer	0.00E+00	3.43E-08	1.09E-05	0.00E+00	0.00E+00	1.09E-05	3.43E-08	0.00E+00	3.43E-08	0.00E+00	0.00E+00	1.09E-05	0.00E+00	0.00E+00	1.09E-05
461	ALL		491059.8	3621142	NonCancer	0.00E+00	3.63E-08	1.15E-05	0.00E+00	0.00E+00	1.15E-05	3.63E-08	0.00E+00	3.63E-08	0.00E+00	0.00E+00	1.15E-05	0.00E+00	0.00E+00	1.15E-05
462	ALL		491058.3	3621155	NonCancer	0.00E+00	3.50E-08	1.11E-05	0.00E+00	0.00E+00	1.11E-05	3.50E-08	0.00E+00	3.50E-08	0.00E+00	0.00E+00	1.11E-05	0.00E+00	0.00E+00	1.11E-05
463	ALL		491053.2	3621175	NonCancer	0.00E+00	3.75E-08	1.19E-05	0.00E+00	0.00E+00	1.19E-05	3.75E-08	0.00E+00	3.75E-08	0.00E+00	0.00E+00	1.19E-05	0.00E+00	0.00E+00	1.19E-05
464	ALL		491214.3	3620901	NonCancer	0.00E+00	1.16E-07	3.68E-05	0.00E+00	0.00E+00	3.68E-05	1.16E-07	0.00E+00	1.16E-07	0.00E+00	0.00E+00	3.68E-05	0.00E+00	0.00E+00	3.68E-05
465	ALL		491183	3620913	NonCancer	0.00E+00	2.50E-07	7.94E-05	0.00E+00	0.00E+00	7.94E-05	2.50E-07	0.00E+00	2.50E-07	0.00E+00	0.00E+00	7.94E-05	0.00E+00	0.00E+00	7.94E-05
466	ALL		491263.8	3620722	NonCancer	0.00E+00	7.78E-08	2.46E-05	0.00E+00	0.00E+00	2.46E-05	7.78E-08	0.00E+00	7.78E-08	0.00E+00	0.00E+00	2.46E-05	0.00E+00	0.00E+00	2.46E-05
467	ALL		491266	3620738	NonCancer	0.00E+00	7.34E-08	2.33E-05	0.00E+00	0.00E+00	2.33E-05	7.34E-08	0.00E+00	7.34E-08	0.00E+00	0.00E+00	2.33E-05	0.00E+00	0.00E+00	2.33E-05
468	ALL		491266	3620752	NonCancer	0.00E+00	7.83E-08	2.48E-05	0.00E+00	0.00E+00	2.48E-05	7.83E-08	0.00E+00	7.83E-08	0.00E+00	0.00E+00	2.48E-05	0.00E+00	0.00E+00	2.48E-05
469	ALL		491266.8	3620768	NonCancer	0.00E+00	9.14E-08	2.90E-05	0.00E+00	0.00E+00	2.90E-05	9.14E-08	0.00E+00	9.14E-08	0.00E+00	0.00E+00	2.90E-05	0.00E+00	0.00E+00	2.90E-05
470	ALL		491266.8	3620785	NonCancer	0.00E+00	1.15E-07	3.65E-05	0.00E+00	0.00E+00	3.65E-05	1.15E-07	0.00E+00	1.15E-07	0.00E+00	0.00E+00	3.65E-05	0.00E+00	0.00E+00	3.65E-05
471	ALL		491269	3620808	NonCancer	0.00E+00	1.21E-07	3.84E-05	0.00E+00	0.00E+00	3.84E-05	1.21E-07	0.00E+00	1.21E-07	0.00E+00	0.00E+00	3.84E-05	0.00E+00	0.00E+00	3.84E-05
472	ALL		491271.1	3620838	NonCancer	0.00E+00	1.27E-07	4.04E-05	0.00E+00	0.00E+00	4.04E-05	1.27E-07	0.00E+00	1.27E-07	0.00E+00	0.00E+00	4.04E-05	0.00E+00	0.00E+00	4.04E-05
473	ALL		491219.4	3620910	NonCancer	0.00E+00	1.12E-07	3.56E-05	0.00E+00	0.00E+00	3.56E-05	1.12E-07	0.00E+00	1.12E-07	0.00E+00	0.00E+00	3.56E-05	0.00E+00	0.00E+00	3.56E-05
474	ALL		491226.7	3620921	NonCancer	0.00E+00	1.06E-07	3.36E-05	0.00E+00	0.00E+00	3.36E-05	1.06E-07	0.00E+00	1.06E-07	0.00E+00	0.00E+00	3.36E-05	0.00E+00	0.00E+00	3.36E-05
475	ALL		491234	3620934	NonCancer	0.00E+00	9.10E-08	2.88E-05	0.00E+00	0.00E+00	2.88E-05	9.10E-08	0.00E+00	9.10E-08	0.00E+00	0.00E+00	2.88E-05	0.00E+00	0.00E+00	2.88E-05
476	ALL		491254.4	3620926	NonCancer	0.00E+00	6.36E-08	2.02E-05	0.00E+00	0.00E+00	2.02E-05	6.36E-08	0.00E+00	6.36E-08	0.00E+00	0.00E+00	2.02E-05	0.00E+00	0.00E+00	2.02E-05
477	ALL		491266.8	3620924	NonCancer	0.00E+00	6.46E-08	2.05E-05	0.00E+00	0.00E+00	2.05E-05	6.46E-08	0.00E+00	6.46E-08	0.00E+00	0.00E+00	2.05E-05	0.00E+00	0.00E+00	2.05E-05
478	ALL		491279.2	3620926	NonCancer	0.00E+00	6.43E-08	2.04E-05	0.00E+00	0.00E+00	2.04E-05	6.43E-08	0.00E+00	6.43E-08	0.00E+00	0.00E+00	2.04E-05	0.00E+00	0.00E+00	2.04E-05
479	ALL		491294.5	3620927	NonCancer	0.00E+00	6.23E-08	1.98E-05	0.00E+00	0.00E+00	1.98E-05	6.23E-08	0.00E+00	6.23E-08	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	1.98E-05
480	ALL		491189.5	3620925	NonCancer	0.00E+00	2.45E-07	7.75E-05	0.00E+00	0.00E+00	7.75E-05	2.45E-07	0.00E+00	2.45E-07	0.00E+00	0.00E+00	7.75E-05	0.00E+00	0.00E+00	7.75E-05
481	ALL		491197.5	3620936	NonCancer	0.00E+00	8.87E-08	2.81E-05	0.00E+00	0.00E+00	2.81E-05	8.87E-08	0.00E+00	8.87E-08	0.00E+00	0.00E+00	2.81E-05	0.00E+00	0.00E+00	2.81E-05
482	ALL		491207	3620948	NonCancer	0.00E+00	8.82E-08	2.80E-05	0.00E+00	0.00E+00	2.80E-05	8.82E-08	0.00E+00	8.82E-08	0.00E+00	0.00E+00	2.80E-05	0.00E+00	0.00E+00	2.80E-05
483	ALL		491215	3620963	NonCancer	0.00E+00	7.19E-08	2.28E-05	0.00E+00	0.00E+00	2.28E-05	7.19E-08	0.00E+00	7.19E-08	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	2.28E-05
484	ALL		491223	3620974	NonCancer	0.00E+00	8.05E-08	2.55E-05	0.00E+00	0.00E+00	2.55E-05	8.05E-08	0.00E+00	8.05E-08	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	2.55E-05
485	ALL		491229.6	3620985	NonCancer	0.00E+00	8.07E-08	2.56E-05	0.00E+00	0.00E+00	2.56E-05	8.07E-08	0.00E+00	8.07E-08	0.00E+00	0.00E+00	2.56E-05	0.00E+00	0.00E+00	2.56E-05
486	ALL		491314.1	3620938	NonCancer	0.00E+00	1.31E-07	4.15E-05	0.00E+00	0.00E+00	4.15E-05	1.31E-07	0.00E+00	1.31E-07	0.00E+00	0.00E+00	4.15E-05	0.00E+00	0.00E+00	4.15E-05
487	ALL		491288.6	3620854	NonCancer	0.00E+00	9.39E-08	2.98E-05	0.00E+00	0.00E+00	2.98E-05	9.39E-08	0.00E+00	9.39E-08	0.00E+00	0.00E+00	2.98E-05	0.00E+00	0.00E+00	2.98E-05
488	ALL		491301.7	3620861	NonCancer	0.00E+00	8.39E-08	2.66E-05	0.00E+00	0.00E+00	2.66E-05	8.39E-08	0.00E+00	8.39E-08	0.00E+00	0.00E+00	2.66E-05	0.00E+00	0.00E+00	2.66E-05
489	ALL		491317.1	3620869	NonCancer	0.00E+00	6.82E-08	2.16E-05	0.00E+00	0.00E+00										

495 ALL	491263.8	3620977	NonCancer	0.00E+00	5.46E-08	1.73E-05	0.00E+00	0.00E+00	1.73E-05	5.46E-08	0.00E+00	5.46E-08	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	1.73E-05
496 ALL	491270.4	3620988	NonCancer	0.00E+00	5.36E-08	1.70E-05	0.00E+00	0.00E+00	1.70E-05	5.36E-08	0.00E+00	5.36E-08	0.00E+00	0.00E+00	1.70E-05	0.00E+00	0.00E+00	1.70E-05
497 ALL	491295.2	3620975	NonCancer	0.00E+00	5.44E-08	1.73E-05	0.00E+00	0.00E+00	1.73E-05	5.44E-08	0.00E+00	5.44E-08	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	1.73E-05
498 ALL	491246.4	3621010	NonCancer	0.00E+00	7.21E-08	2.28E-05	0.00E+00	0.00E+00	2.28E-05	7.21E-08	0.00E+00	7.21E-08	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	2.28E-05
499 ALL	491256.6	3621026	NonCancer	0.00E+00	5.63E-08	1.79E-05	0.00E+00	0.00E+00	1.79E-05	5.63E-08	0.00E+00	5.63E-08	0.00E+00	0.00E+00	1.79E-05	0.00E+00	0.00E+00	1.79E-05
500 ALL	491263.1	3621036	NonCancer	0.00E+00	4.66E-08	1.48E-05	0.00E+00	0.00E+00	1.48E-05	4.66E-08	0.00E+00	4.66E-08	0.00E+00	0.00E+00	1.48E-05	0.00E+00	0.00E+00	1.48E-05
501 ALL	491271.1	3621049	NonCancer	0.00E+00	4.15E-08	1.31E-05	0.00E+00	0.00E+00	1.31E-05	4.15E-08	0.00E+00	4.15E-08	0.00E+00	0.00E+00	1.31E-05	0.00E+00	0.00E+00	1.31E-05
502 ALL	491300.3	3621035	NonCancer	0.00E+00	4.24E-08	1.34E-05	0.00E+00	0.00E+00	1.34E-05	4.24E-08	0.00E+00	4.24E-08	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	1.34E-05
503 ALL	491290.8	3621020	NonCancer	0.00E+00	4.55E-08	1.44E-05	0.00E+00	0.00E+00	1.44E-05	4.55E-08	0.00E+00	4.55E-08	0.00E+00	0.00E+00	1.44E-05	0.00E+00	0.00E+00	1.44E-05
504 ALL	491285	3621009	NonCancer	0.00E+00	4.82E-08	1.53E-05	0.00E+00	0.00E+00	1.53E-05	4.82E-08	0.00E+00	4.82E-08	0.00E+00	0.00E+00	1.53E-05	0.00E+00	0.00E+00	1.53E-05
505 ALL	491278.4	3620999	NonCancer	0.00E+00	5.13E-08	1.63E-05	0.00E+00	0.00E+00	1.63E-05	5.13E-08	0.00E+00	5.13E-08	0.00E+00	0.00E+00	1.63E-05	0.00E+00	0.00E+00	1.63E-05
506 ALL	491299.6	3620986	NonCancer	0.00E+00	5.09E-08	1.61E-05	0.00E+00	0.00E+00	1.61E-05	5.09E-08	0.00E+00	5.09E-08	0.00E+00	0.00E+00	1.61E-05	0.00E+00	0.00E+00	1.61E-05
507 ALL	491303.9	3620996	NonCancer	0.00E+00	4.82E-08	1.53E-05	0.00E+00	0.00E+00	1.53E-05	4.82E-08	0.00E+00	4.82E-08	0.00E+00	0.00E+00	1.53E-05	0.00E+00	0.00E+00	1.53E-05
508 ALL	491313.4	3621011	NonCancer	0.00E+00	4.74E-08	1.50E-05	0.00E+00	0.00E+00	1.50E-05	4.74E-08	0.00E+00	4.74E-08	0.00E+00	0.00E+00	1.50E-05	0.00E+00	0.00E+00	1.50E-05
509 ALL	491320	3621019	NonCancer	0.00E+00	4.76E-08	1.51E-05	0.00E+00	0.00E+00	1.51E-05	4.76E-08	0.00E+00	4.76E-08	0.00E+00	0.00E+00	1.51E-05	0.00E+00	0.00E+00	1.51E-05
510 ALL	491308.3	3620822	NonCancer	0.00E+00	7.16E-08	2.27E-05	0.00E+00	0.00E+00	2.27E-05	7.16E-08	0.00E+00	7.16E-08	0.00E+00	0.00E+00	2.27E-05	0.00E+00	0.00E+00	2.27E-05
511 ALL	491306.8	3620803	NonCancer	0.00E+00	7.09E-08	2.25E-05	0.00E+00	0.00E+00	2.25E-05	7.09E-08	0.00E+00	7.09E-08	0.00E+00	0.00E+00	2.25E-05	0.00E+00	0.00E+00	2.25E-05
512 ALL	491308.3	3620784	NonCancer	0.00E+00	6.51E-08	2.06E-05	0.00E+00	0.00E+00	2.06E-05	6.51E-08	0.00E+00	6.51E-08	0.00E+00	0.00E+00	2.06E-05	0.00E+00	0.00E+00	2.06E-05
513 ALL	491307.6	3620767	NonCancer	0.00E+00	5.94E-08	1.88E-05	0.00E+00	0.00E+00	1.88E-05	5.94E-08	0.00E+00	5.94E-08	0.00E+00	0.00E+00	1.88E-05	0.00E+00	0.00E+00	1.88E-05
514 ALL	491311.2	3620747	NonCancer	0.00E+00	5.17E-08	1.64E-05	0.00E+00	0.00E+00	1.64E-05	5.17E-08	0.00E+00	5.17E-08	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	1.64E-05
515 ALL	491308.3	3620730	NonCancer	0.00E+00	4.51E-08	1.43E-05	0.00E+00	0.00E+00	1.43E-05	4.51E-08	0.00E+00	4.51E-08	0.00E+00	0.00E+00	1.43E-05	0.00E+00	0.00E+00	1.43E-05
516 ALL	491344.7	3620730	NonCancer	0.00E+00	3.55E-08	1.13E-05	0.00E+00	0.00E+00	1.13E-05	3.55E-08	0.00E+00	3.55E-08	0.00E+00	0.00E+00	1.13E-05	0.00E+00	0.00E+00	1.13E-05
517 ALL	491343.3	3620746	NonCancer	0.00E+00	3.85E-08	1.22E-05	0.00E+00	0.00E+00	1.22E-05	3.85E-08	0.00E+00	3.85E-08	0.00E+00	0.00E+00	1.22E-05	0.00E+00	0.00E+00	1.22E-05
518 ALL	491344.7	3620763	NonCancer	0.00E+00	4.33E-08	1.37E-05	0.00E+00	0.00E+00	1.37E-05	4.33E-08	0.00E+00	4.33E-08	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	1.37E-05
519 ALL	491343.3	3620780	NonCancer	0.00E+00	4.33E-08	1.37E-05	0.00E+00	0.00E+00	1.37E-05	4.33E-08	0.00E+00	4.33E-08	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	1.37E-05
520 ALL	491344.7	3620800	NonCancer	0.00E+00	4.65E-08	1.47E-05	0.00E+00	0.00E+00	1.47E-05	4.65E-08	0.00E+00	4.65E-08	0.00E+00	0.00E+00	1.47E-05	0.00E+00	0.00E+00	1.47E-05
521 ALL	491346.2	3620816	NonCancer	0.00E+00	4.84E-08	1.53E-05	0.00E+00	0.00E+00	1.53E-05	4.84E-08	0.00E+00	4.84E-08	0.00E+00	0.00E+00	1.53E-05	0.00E+00	0.00E+00	1.53E-05
522 ALL	491347.7	3620837	NonCancer	0.00E+00	4.65E-08	1.47E-05	0.00E+00	0.00E+00	1.47E-05	4.65E-08	0.00E+00	4.65E-08	0.00E+00	0.00E+00	1.47E-05	0.00E+00	0.00E+00	1.47E-05
523 ALL	491330.2	3620876	NonCancer	0.00E+00	5.62E-08	1.78E-05	0.00E+00	0.00E+00	1.78E-05	5.62E-08	0.00E+00	5.62E-08	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	1.78E-05
524 ALL	491327.4	3620953	NonCancer	0.00E+00	1.09E-07	3.47E-05	0.00E+00	0.00E+00	3.47E-05	1.09E-07	0.00E+00	1.09E-07	0.00E+00	0.00E+00	3.47E-05	0.00E+00	0.00E+00	3.47E-05
525 ALL	491338.3	3620938	NonCancer	0.00E+00	2.02E-07	6.41E-05	0.00E+00	0.00E+00	6.41E-05	2.02E-07	0.00E+00	2.02E-07	0.00E+00	0.00E+00	6.41E-05	0.00E+00	0.00E+00	6.41E-05
526 ALL	491324.5	3620969	NonCancer	0.00E+00	3.54E-08	1.12E-05	0.00E+00	0.00E+00	1.12E-05	3.54E-08	0.00E+00	3.54E-08	0.00E+00	0.00E+00	1.12E-05	0.00E+00	0.00E+00	1.12E-05
527 ALL	491331.8	3620982	NonCancer	0.00E+00	3.24E-08	1.03E-05	0.00E+00	0.00E+00	1.03E-05	3.24E-08	0.00E+00	3.24E-08	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	1.03E-05
528 ALL	491338.3	3620994	NonCancer	0.00E+00	2.97E-08	9.43E-06	0.00E+00	0.00E+00	9.43E-06	2.97E-08	0.00E+00	2.97E-08	0.00E+00	0.00E+00	9.43E-06	0.00E+00	0.00E+00	9.43E-06
529 ALL	491345.6	3621011	NonCancer	0.00E+00	2.67E-08	8.45E-06	0.00E+00	0.00E+00	8.45E-06	2.67E-08	0.00E+00	2.67E-08	0.00E+00	0.00E+00	8.45E-06	0.00E+00	0.00E+00	8.45E-06
530 ALL	491368.9	3620934	NonCancer	0.00E+00	1.77E-07	5.60E-05	0.00E+00	0.00E+00	5.60E-05	1.77E-07	0.00E+00	1.77E-07	0.00E+00	0.00E+00	5.60E-05	0.00E+00	0.00E+00	5.60E-05
531 ALL	491364.6	3620949	NonCancer	0.00E+00	2.02E-07	6.40E-05	0.00E+00	0.00E+00	6.40E-05	2.02E-07	0.00E+00	2.02E-07	0.00E+00	0.00E+00	6.40E-05	0.00E+00	0.00E+00	6.40E-05
532 ALL	491365.3	3620961	NonCancer	0.00E+00	1.66E-07	5.27E-05	0.00E+00	0.00E+00	5.27E-05	1.66E-07	0.00E+00	1.66E-07	0.00E+00	0.00E+00	5.27E-05	0.00E+00	0.00E+00	5.27E-05
533 ALL	491363.1	3620976	NonCancer	0.00E+00	1.54E-07	4.89E-05	0.00E+00	0.00E+00	4.89E-05	1.54E-07	0.00E+00	1.54E-07	0.00E+00	0.00E+00	4.89E-05	0.00E+00	0.00E+00	4.89E-05
534 ALL	491364.6	3620988	NonCancer	0.00E+00	1.04E-07	3.30E-05	0.00E+00	0.00E+00	3.30E-05	1.04E-07	0.00E+00	1.04E-07	0.00E+00	0.00E+00	3.30E-05	0.00E+00	0.00E+00	3.30E-05
535 ALL	491344.1	3620883	NonCancer	0.00E+00	4.98E-08	1.58E-05	0.00E+00	0.00E+00	1.58E-05	4.98E-08	0.00E+00	4.98E-08	0.00E+00	0.00E+00	1.58E-05	0.00E+00	0.00E+00	1.58E-05
536 ALL	491363.1	3620884	NonCancer	0.00E+00	4.65E-08	1.47E-05	0.00E+00	0.00E+00	1.47E-05	4.65E-08	0.00E+00	4.65E-08	0.00E+00	0.00E+00	1.47E-05	0.00E+00	0.00E+00	1.47E-05
537 ALL	491362	3620546	NonCancer	0.00E+00	3.32E-08	1.05E-05	0.00E+00	0.00E+00	1.05E-05	3.32E-08	0.00E+00	3.32E-08	0.00E+00	0.00E+00	1.05E-05	0.00E+00	0.00E+00	1.05E-05
538 ALL	491356.2	3620571	NonCancer	0.00E+00	3.30E-08	1.05E-05	0.00E+00	0.00E+00	1.05E-05	3.30E-08	0.00E+00	3.30E-08	0.00E+00	0.00E+00	1.05E-05	0.00E+00	0.00E+00	1.05E-05
539 ALL	491322.7	3620545	NonCancer	0.00E+00	3.72E-08	1.18E-05	0.00E+00	0.00E+00	1.18E-05	3.72E-08	0.00E+00	3.72E-08	0.00E+00	0.00E+00	1.18E-05	0.00E+00	0.00E+00	1.18E-05
540 ALL	491347.4	3620536	NonCancer	0.00E+00	3.68E-08	1.17E-05	0.00E+00	0.00E+00	1.17E-05	3.68E-08	0.00E+00	3.68E-08	0.00E+00	0.00E+00	1.17E-05	0.00E+00	0.00E+00	1.17E-05
541 ALL	491265.8	3620676	NonCancer	0.00E+00	5.79E-08	1.84E-05	0.00E+00	0.00E+00	1.84E-05	5.79E-08	0.00E+00	5.79E-08	0.00E+00	0.00E+00	1.84E-05	0.00E+00	0.00E+00	1.84E-05
542 ALL	491284	3620691	NonCancer	0.00E+00	6.04E-08	1.91E-05	0.00E+00	0.00E+00	1.91E-05	6.04E-08	0.00E+00	6.04E-08	0.00E+00	0.00E+00	1.91E-05	0.00E+00	0.00E+00	1.91E-05
543 ALL	491297.1	3620672	NonCancer	0.00E+00	5.20E-08	1.65E-05	0.00E+00	0.00E+00	1.65E-05	5.20E-08	0.00E+00	5.20E-08	0.00E+00	0.00E+00	1.65E-05	0.00E+00	0.00E+00	1.65E-05
544 ALL	491373.3	3620592	NonCancer	0.00E+00	3.31E-08	1.05E-05	0.00E+00	0.00E+00	1.05E-05	3.31E-08	0.00E+00	3.31E-08	0.00E+00	0.00E+00	1.05E-05	0.00E+00	0.00E+00	1.05E-05

Fairmount Avenue Fire Station
Diesel Storage Tank

							ROG Emissions (lb/day)				ROG Emissions (ton/yr)			
Fuel Tank	Fuel Type	Tank Type	Tank Size (gallons)	Gallons Per Day	Gallons Per year	Turnovers per year	Breathing Losses	Working Losses	Dispensing	Total	Breathing Losses	Working Losses	Dispensing	Total
Diesel	Diesel	AST	416	159	58,108.81	139.68	0.0008493	0.0015342		0.0023836	0.000155	0.00028		0.000435
						Total	0.0008493	0.0015342		0.0023836	0.000155	0.00028		0.000435

Note: Emissions estimated using US EPA TANKS 4.09d.

Diesel Fuel TAC Emission Calculations

	Emission Factors (lb/lb ROG)				Emissions (lb/hr)				Emissions (lb/yr)			
	Benzene	Hexane	Toluene	2,2,4-Trimethylpentane	Benzene	Hexane	Toluene	2,2,4-Trimethylpentane	Benzene	Hexane	Toluene	2,2,4-Trimethylpentane
Diesel	0.024	0.047	0.014	0.004	2.38E-06	4.67E-06	1.39041E-06	3.9726E-07	0.02088	0.04089	0.01218	0.00348

Note: Emission factors from the CARB Identification of Volatile Organic Compound Species Profiles, Profile #297. August 1991.