Appendix D
Air Quality and Greenhouse Gas Emissions

D1 Air Quality and Greenhouse Gas Emissions Technical Report

D2 BESS Charging Memorandum

D1 Air Quality and Greenhouse Gas Emissions Technical Report

Air Quality and Greenhouse Gas Emissions Technical Report

Heartland Solar Project, Fresno County, California

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Acronyms and Abbreviations

Acronym/Abbreviation	Definition
µg/m^3	micrograms per cubic meter
AB	Assembly Bill
ADMRT	Air Dispersion and Risk Tool
AERMOD	American Meteorological Society/Environmental Protection Agency Regulatory Model
amsl	above mean sea level
AQMP	Air Quality Management Plan
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emissions Estimator Model
CALGreen	California's Green Building Standards
CALINE4	California LINE Source Dispersion Model
CalRecycle	California Department of Resources Recycling and Recovery
CAP	climate action plan
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CAT	Climate Action Team
CDPH	California Department of Public Health
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CH_4	methane
C/M1	commercial manufacturing
CNRA	California Natural Resources Agency
CO	carbon monoxide
CO_2	carbon dioxide
CPUC	California Public Utilities Commission
DPM	diesel particulate matter
EO	Executive Order
EPA	U.S. Environmental Protection Agency
EV	electric vehicle
GHG	greenhouse gas
GWP	global warming potential
H_2S	hydrogen sulfide
HAP	hazardous air pollutant
HARP2	Hotspots Analysis and Reporting Program Version 2
HFC	hydrofluorocarbon
HRA	health risk assessment
HVAC	heating, ventilation, and air conditioning
I	Interstate
IPCC	Intergovernmental Panel on Climate Change
ITE	Institute of Transportation Engineers

Acronym/Abbreviation	Definition
LCFS	Low Carbon Fuel Standard
LED	light emitting diode
LOS	level of service
LST	localized significance thresholds
MM	Mitigation Measure
MMT	million metric ton
MT CO_2e	metric tons of CO_2 equivalent
N_2O	nitrous oxide
NAAQS	National Ambient Air Quality Standards
NF_3	nitrogen trifluoride
NHTSA	National Highway Traffic Safety Administration
NO_2	nitrogen dioxide
NO_x	oxides of nitrogen
O_3	ozone
OEHHA	Office of Environmental Health Hazard Assessment
PDF	project design feature
PF	public facilities
PFC	perfluorocarbon
PG&E	Pacific Gas and Electric
PM_{10}	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
ppb	parts per billion
ppm	parts per million
PV	photovoltaic
RCP	Regional Comprehensive Plan
RPS	Renewables Portfolio Standard
RTP	Regional Transportation Plan
SB	Senate Bill
SCAQMD	South Coast Air Quality Management District
SCS	Sustainable Communities Strategy
SF_6	sulfur hexafluoride
SJVAB	San Joaquin Valley Air Basin
SJVAPCD	San Joaquin Valley Air Pollution Control District
SLCP	short-lived climate pollutant
SO_2	sulfur dioxide
SO_4	sulfates
SO_x	sulfur oxides
SRA	source-receptor area
TAC	toxic air contaminants
TIA	Transportation Impact Analysis

Acronym/Abbreviation	Definition
TRU	transport refrigeration unit
UNFCCC	United Nations Framework Convention on Climate Change
USGS	U.S. Geological Survey
VOC	volatile organic compound
ZNE	zero net energy

Executive Summary

The purpose of this technical report is to assess the potential air quality and greenhouse gas (GHG) emissions impacts associated with implementation of the proposed Heartland Solar Project (project). This assessment utilizes the significance thresholds in Appendix G of the California Environmental Quality Act (CEQA) Guidelines (14 CCR 15000 et seq.).

Project and Approach Overview

Heartland Solar 1, LLC, a wholly-owned indirect subsidiary of Clearway Energy Group LLC, proposes to construct, operate, maintain, and decommission the *Heartland Solar Project*, which consists of renewable photovoltaic (PV) solar energy generation and energy storage system facilities. Proposed facilities would generate approximately 300 megawatts (MW) alternating current (AC) of solar PV energy and have capacity to store approximately 300 MW of energy on approximately 2,362 acres of private land in western Fresno County. These facilities would interconnect to the regional electrical grid via an electrical generation-tie (gen-tie) line between the solar facility and the existing Tranquillity Switching Station, which is located approximately 1.25 miles south of the solar and energy storage facility site. The Tranquillity Switching Station is owned and operated by the Pacific Gas and Electric Company (PG&E), which is subject to the jurisdiction and oversight of the California Public Utilities Commission (CPUC). PG&E also would conduct other necessary infrastructure work to support interconnection of the Heartland Solar Project. Infrastructure and other improvements to be constructed, operated, and maintained by PG&E to support the Heartland Solar Project are referred to as the *PG&E Components*. The Heartland Solar Project and the PG&E Components collectively are referred to in this document as the *Project*.

The project site is located within the San Joaquin Valley Air Basin (SJVAB) and is under the jurisdiction of Fresno County and the San Joaquin Valley Air Pollution Control District (SJVAPCD). The SJVAPCD *Guidance for Assessing and Mitigating Air Quality Impacts* (GAMAQI) was followed as applicable to the project. Construction and operational criteria air pollutant and GHG emissions were estimated using a spreadsheet-based model and the California Emissions Estimator Model (CalEEMod) Version 2022.1.1.29.

Air Quality

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. Criteria air pollutants include ozone (O_3), nitrogen dioxide (NO_2), carbon monoxide (CO), sulfur dioxide (SO_2), particulate matter with an aerodynamic diameter less than or equal to 10 microns (PM_{10}), particulate matter with an aerodynamic diameter less than or equal to 2.5 microns ($PM_{2.5}$), and lead. Pollutants that are evaluated include reactive organic gases (ROGs), oxides of nitrogen (NO_x), CO, sulfur oxides (SO_x), PM_{10}, and $PM_{2.5}$. ROGs and NO_x are important because they are precursors to O_3.

Conflict with or Obstruct Applicable Air Quality Plan

A project is non-conforming with an air quality plan if it conflicts with or delays implementation of any applicable attainment or maintenance plan. The SJVAPCD has prepared plans to attain federal and state O_3 and particulate matter ambient air quality standards as required under the federal and California Clean Air Act. The SJVAPCD has established thresholds of significance for criteria pollutant emissions, and projects with emissions below the

thresholds of significance for criteria pollutants that would be determined to "not conflict or obstruct implementation of the District's air quality plan" (SJVAPCD 2015a). As determined in the assessment of project-generated construction and operational emissions, the project would result in emissions that would not exceed SJVAPCD thresholds or result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations. The ambient air quality assessment showed the project did not exceed applicable air quality standards. Therefore, the project would not conflict with or delay the implementation of the SJVAPCD attainment plans and would result in a **less than significant** impact.

Cumulative Impacts

The potential for the project to result in a cumulatively considerable impact, per the SJVAPCD guidance and thresholds, is based on the project's impact compared to the SJVAPCD significance criteria. The annual construction emissions would not exceed the SJVAPCD significance thresholds for ROG, NO_x, CO, SO_x, PM_{10}, or $PM_{2.5}$. The project's construction and operational emissions would be less than the SJVAPCD localized thresholds for ROG, NO_x, CO, SO_x, PM_{10}, or $PM_{2.5}$. Therefore, the project construction and operational impacts would be **less than significant**.

Exposure of Sensitive Receptors

Carbon Monoxide Hotspot

Operation of the project would not expose sensitive receptors to localized high concentrations of CO or contribute traffic volumes to intersections that would cause a CO hotspot. As neither the 1-hour nor the 8-hour CO California Ambient Air Quality Standards (CAAQS) would be equaled or exceeded at any of the studied intersections, potential CO hotspot impacts would be **less than significant**.

Valley Fever

Coccidioidomycosis, more commonly known as Valley Fever, is an infection caused by inhalation of the spores of the *Coccidioides immitis* fungus, which grows in the soils of the southwestern United States. The project would be required to comply with Rule 8021, Section 6.3, which would require the project to develop, prepare, submit, obtain approval of, and implement a dust control plan. Compliance with the required dust control plan would reduce fugitive dust impacts to less than significant for project construction, which would also minimize the release of the *Coccidioides immitis* fungus from construction activities. In addition, the project would implement various dust control strategies and provide Valley Fever awareness and training to all project construction employees as included in applicant proposed measure **PDF-AQ-1**. Therefore, the project would have a **less than significant** impact with respect to valley fever exposure for sensitive receptors.

Toxic Air Contaminants

Project construction activities would produce diesel particulate matter (DPM) due to combustion equipment such as loaders and backhoes, and haul truck trips. The health risk assessment showed the project would not exceed the SJVAPCD significance thresholds during construction. Operation of the project would not result in TAC emissions. Thus, sensitive receptor exposure to TACs associated with the project would be **less than significant**.

Other Emissions (Odors)

The analysis of the project's potential to result in other emissions is focused on potential odor impacts. Potential odors produced during construction would be attributable to concentrations of unburned hydrocarbons from tailpipes of construction equipment, architectural coatings, and asphalt pavement application, which would disperse rapidly from the project site and generally occur at magnitudes that would not affect substantial numbers of people. Impacts associated with odors during construction would be less than significant. The project would not include land-use types that would generate odors during operation. Therefore, project construction and operations would result in odor impacts that are **less than significant**.

Greenhouse Gas Emissions

Global climate change is primarily considered a cumulative impact, but must also be evaluated on a project-level under CEQA. A project participates in this potential impact through its incremental contribution combined with the cumulative increase of all other sources of GHG emissions. GHGs are gases that absorb infrared radiation in the atmosphere. Principal GHGs regulated under state and federal law and regulations include carbon dioxide (CO_2), methane (CH_4), and nitrous oxide (N_2O). GHG emissions are measured in metric tons of CO_2 equivalent (MT CO_2e), which account for weighted global warming potential (GWP) factors for CH_4 and N_2O.

Project-Generated Construction and Operational Greenhouse Gas Emissions and Consistency with Applicable Greenhouse Gas Reduction Plans

Construction of the project would result in GHG emissions primarily associated with use of off-road construction equipment, on-road hauling and vendor (material delivery) trucks, and worker vehicles. The estimated total GHG emissions during construction would be approximately 6,551 MT CO_2e. Estimated project-generated construction emissions amortized over 30 years would be approximately 218 MT CO_2e per year.

Operation of the project would generate GHG emissions through motor vehicle and delivery truck trips to and from the project site; landscape maintenance equipment operation; solid waste disposal; water; and on-site septic system. Estimated annual project-generated operational emissions plus amortized project construction emissions would be approximately 1,513 MT CO_2e per year. When accounting for offsetting of the use of fossil fuels for electricity generation for backup power, the Proposed project would avoid a total of 276,717 MT CO_2e from 2028 through 2044, or a net 231,327 MT CO_2e when accounting for the project's emissions.

Development of the project site would be consistent with the County's General Plan, support the Fresno Council of Governments (FCOG) 2022 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS), and demonstrate consistency with the Scoping Plan, which all promote economic growth while achieving greater energy efficiency. The project would be consistent with FCOG's 2022 RTP/SCS, Senate Bill 32, and Executive Order S-3-05. The project would not conflict with any plans adopted with the purpose of reducing GHG emissions; therefore, the project's impacts with respect to GHG emissions would be **less than significant**.

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 implementation of the proposed Heartland Solar Project (project). This assessment uses the significance thresholds in Appendix G of the California Environmental Quality Act (CEQA) Guidelines (14 CCR 15000 et seq.), and is based on the emissions-based significance thresholds recommended by Fresno County, the San Joaquin Valley Air Pollution Control District (SJVAPCD), and other applicable thresholds of significance.

This introductory section provides a description of the project and the project location. Chapter 2, Air Quality, describes the air quality–related environmental setting, regulatory setting, existing air quality conditions, and thresholds of significance and analysis methodology, and presents an air quality impact analysis per Appendix G of the CEQA Guidelines. Chapter 3, Greenhouse Gas Emissions, follows the same format as Chapter 2 and similarly describes the GHG emissions–related environmental setting, regulatory setting, existing climate changes conditions, and thresholds of significance and analysis methodology, and presents a GHG emissions impact analysis per Appendix G of the CEQA Guidelines. Chapter 4, References Cited, includes a list of the references cited. Chapter 5, List of Preparers, includes a list of those who prepared this technical report.

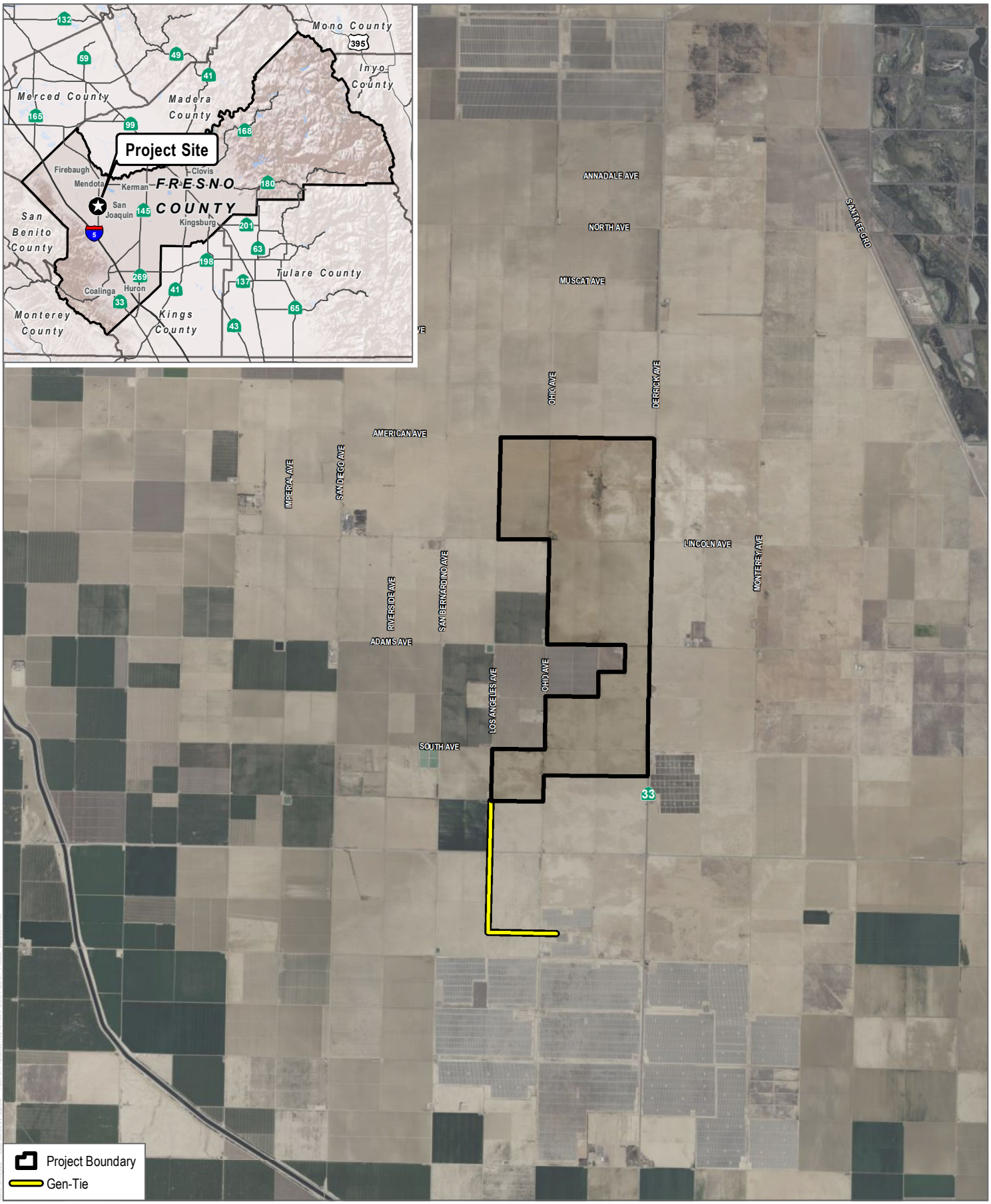
1.2 Regional and Local Setting

The Project site is located in the San Joaquin Valley, approximately 6.5 miles south of the City of Mendota, and immediately west of State Route 33 (SR-33), in unincorporated Fresno County. Specifically, the Project site is bounded by West American Avenue to the north and SR-33 to the east. The Project borders Los Angeles Avenue on the west and is one-half mile north of Manning Avenue to the south. The proposed Project site is zoned AE-20 (Exclusive Agricultural District, 20-acre minimum parcel size) and has historically been used for farming. As described in detail below, the land has been retired from irrigated agriculture due to lack of drainage services and salt accumulation in the soil, and is subject to a legal covenant that precludes irrigation. Over the last 15 years, the Project site has been intermittently dry-farmed for grain or forage crops (such as oats, wheat, and grain hay) or has lain fallow. Abandoned irrigation and drainage features are present throughout the site, including piping. The Project location is shown in Figure 1.

1.3 Project Description

Heartland Solar 1, LLC, a wholly-owned indirect subsidiary of Clearway Energy Group LLC, proposes to construct, operate, maintain, and decommission the *Heartland Solar Project*, which consists of renewable photovoltaic (PV) solar energy generation and energy storage system facilities. Proposed facilities would generate approximately 300 megawatts (MW) alternating current (AC) of solar PV energy and have capacity to store approximately 300 MW of energy on approximately 2,362 acres of private land in western Fresno County. These facilities would interconnect to the regional electrical grid via an electrical generation-tie (gen-tie) line between the solar facility and the existing Tranquillity Switching Station, which is located approximately 1.25 miles south of the solar and energy storage facility site. The Tranquillity Switching Station is owned and operated by the Pacific Gas and Electric Company (PG&E), which is subject to the jurisdiction and oversight of the California Public Utilities Commission (CPUC). PG&E

also would conduct other necessary infrastructure work to support interconnection of the Heartland Solar Project. Infrastructure and other improvements to be constructed, operated, and maintained by PG&E to support the Heartland Solar Project are referred to as the *PG&E Components*. The Heartland Solar Project and the PG&E Components collectively are referred to in this document as the *Project*.



SOURCE: Fresno County; Bing Maps

DUDEK

0 0.5 1 Miles

FIGURE 1

Project Location

Heartland Solar Project

2 Air Quality

2.1 Environmental Setting

As stated previously, the project site is located within the SJVAB.

2.1.1 Meteorological and Topographical Conditions

The primary factors that determine air quality are the locations of air pollutant sources and the amounts of pollutants emitted. Meteorological and topographical conditions, however, also are important. Factors such as wind speed and direction, air temperature gradients and sunlight, and precipitation and humidity interact with physical landscape features to determine the movement and dispersal of criteria air pollutants. The analysis was prepared in accordance with the SJVAPCD *Guidance for Assessing and Mitigating Air Quality Impacts* (GAMAQI). These factors are described below.

Topography

The project lies within the SJVAB, which consists of eight counties and is spread across 25,000 square miles of Central California. The SJVAB is bordered on the east by the Sierra Nevada (8,000 to 14,491 feet in elevation); on the west by the Coast Ranges (averaging 3,000 feet in elevation); and to the south by the Tehachapi Mountains (6,000 to 7,981 feet in elevation). The San Joaquin Valley comprises the southern half of California's Central Valley and is approximately 250 miles long and averages 35 miles wide, with a slight downward elevation gradient from Bakersfield in the southeast end (elevation 408 feet) to sea level at the northwest end where the San Joaquin Valley opens to the San Francisco Bay at the Carquinez Strait. At its northern end is the Sacramento Valley, which comprises the northern half of California's Central Valley. The region's topographic features restrict air movement through and out of the SJVAB. As a result, the SJVAB is highly susceptible to pollutant accumulation over time.

Climate

The San Joaquin Valley is in a Mediterranean Climate Zone, influenced by a subtropical high-pressure cell most of the year and characterized by warm, dry summers and cooler winters. Mediterranean climates are characterized by sparse rainfall, which occurs mainly in winter. Summertime maximum temperatures in the San Joaquin Valley often exceed 100°F.

The vertical dispersion of air pollutants in the San Joaquin Valley can be limited by the presence of persistent temperature inversions. Air temperatures usually decrease with an increase in altitude. A reversal of this atmospheric state, where the air temperature increases with height, is termed an inversion. A temperature inversion can act like a lid, restricting vertical mixing of air above and below an inversion because of differences in air density and thereby trapping air pollutants below the inversion. The subtropical high-pressure cell is strongest during spring, summer and fall and produces subsiding air, which can result in temperature inversions. Most of the surrounding mountains are above the normal height of summer inversions (1,500–3,000 feet). Wintertime high pressure events can often last many weeks with surface temperatures often lowering into the 30s°F. During these events, fog can be present and inversions are extremely strong. These wintertime inversions can inhibit vertical mixing of pollutants to a few hundred feet.

Wind Patterns

Wind speed and direction play an important role in dispersion and transport of air pollutants. Winds in the San Joaquin Valley most frequently blow from the northwesterly direction, especially in the summer. The region's topographic features restrict air movement and channel the air mass towards the southeastern end of the San Joaquin Valley. Marine air can flow into the SJVAB from the Sacramento–San Joaquin River Delta and over Altamont Pass and Pacheco Pass, where it can flow through the San Joaquin Valley, over the Tehachapi Pass, into the Mojave Desert Air Basin (MDAB). The Coastal Range and the Sierra Nevada are barriers to air movement to the west and east, respectively. A secondary but significant summer wind pattern is from the southeasterly direction and can be associated with nighttime drainage winds, prefrontal conditions and summer monsoons. During winter, winds can be very weak, which minimizes the transport of pollutants and results in stagnation events.

Two significant diurnal wind cycles that occur frequently in the San Joaquin Valley are the sea breeze and mountain-valley upslope and drainage flows. The sea breeze can accentuate the northwest wind flow, especially on summer afternoons. Nighttime drainage flows can accentuate the southeast movement of air down the San Joaquin Valley. In the mountains during periods of weak synoptic scale winds, winds tend to be upslope during the day and downslope at night. Nighttime and drainage flows are pronounced during the winter when flow from the easterly direction is enhanced by nighttime cooling in the Sierra Nevada. Eddies can form in the valley wind flow and can re-circulate a polluted air mass for an extended period.

Temperature, Sunlight and Ozone Production

Solar radiation and temperature are particularly important in the chemistry of O_3 formation. The SJVAB averages over 260 sunny days per year. Photochemical air pollution (primarily O_3) results from the atmospheric ROGs and NO_2 under the influence of sunlight. O_3 concentrations are very dependent on the amount of solar radiation, especially during late spring, summer and early fall. O_3 levels typically peak in the afternoon. After the sun goes down, the chemical reaction between nitrous oxide and O_3 begins to dominate. This reaction tends to reduce O_3 concentrations in the metropolitan areas through the early morning hours. At sunrise, NO_x tends to peak, partly due to low levels of O_3 at this time and also due to the morning commuter vehicle emissions of NO_x.

Reaction rates generally increase with temperature, which results in greater O_3 production at higher temperatures. However, extremely hot temperatures can "lift" or "break" the inversion layer. Typically, if the inversion layer remains intact, O_3 levels peak in the late afternoon. If the inversion layer breaks and the resultant afternoon winds occur, O_3 levels peak in the early afternoon and decrease in the late afternoon as the contaminants are dispersed or transported out of the SJVAB. O_3 levels are low during winter periods when there is much less sunlight to drive the photochemical reaction.

Precipitation, Humidity, and Fog

Precipitation and fog can result in the reduction or increase in some pollutant concentrations. For instance, O_3 needs sunlight for its formation, and clouds and fog can block the required solar radiation. In addition, wet fogs can cleanse the air during winter as moisture collects on particles and deposits them on the ground. Fog with less moisture content, however, can contribute to the formation of secondary ammonium nitrate particulate matter.

The winds and unstable air conditions experienced during the passage of winter storms result in periods of low pollutant concentrations. Between winter storms, high pressure and light winds allow cold, moist air to pool on the

San Joaquin Valley floor, resulting in strong low-level temperature inversions and very stable air conditions, which can lead to Tule fog. Wintertime conditions favorable to fog formation are also conditions favorable to high concentrations of particulate matter.

Urban Heat Island Effect

The "urban heat island" refers to the effect of urbanized areas on surface and air temperature compared to their rural surroundings. Buildings, roads, and other "hardscape" create an island of higher temperatures within the regional landscape. As described by the EPA, "urban heat islands are caused by development and the changes in radiative and thermal properties of urban infrastructure as well as the impacts buildings can have on the local microclimate—for example tall buildings can slow the rate at which cities cool off at night. Heat islands are influenced by a city's geographic location and by local weather patterns, and their intensity changes on a daily and seasonal basis." (EPA 2008). The term is generally used to refer to community-wide effects, particularly for large metropolitan cities. The potential adverse effects of the urban heat island effect include increased energy consumption, elevated emissions of air pollutants and GHGs, compromised human health and comfort, and impaired water quality. Increased temperatures due to the urban heat island effect may also lead to increased energy consumption, which has implications for air quality and GHG emissions. In addition to energy-related increases in air emissions, elevated air temperatures increase the rate of ground-level O_3 formation. Communities have adopted various strategies to deal with these environmental impacts, such as increasing vegetation and using more energy-efficient building materials. These strategies are often part of more general energy savings or "sustainability" practices and are not identified as "urban heat island effect" mitigation, but nevertheless they provide the benefits of reducing surface and atmospheric heat islands.

2.1.2 Pollutants and Effects

2.1.2.1 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 O_3, nitrogen dioxide (NO_2), carbon monoxide (CO), sulfur dioxide (SO_2), PM_{10}, $PM_{2.5}$, and lead. Reactive organic gases (ROGs; also referred to as volatile organic compounds [VOCs])[1] and oxides of nitrogen (NO_x) are also important because they are precursors to O_3, These pollutants, as well as toxic air contaminants (TACs), 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. A more detailed discussion of health effects of criteria air pollutants is provided in Appendix D.

Ozone. O_3 in the troposphere causes numerous adverse health effects; short-term exposures (lasting for a few hours) to O_3 at levels typically observed in Southern California can result in breathing pattern changes, reduction of breathing capacity, respiratory symptoms, worsening of lung disease leading to premature death, increased

1 The SJVAPCD threshold is set for ROG. However, ROG and VOC are generally considered equivalent for CEQA analyses; as such, ROG and VOC are used interchangeably in this analysis.

2 The descriptions of each of the criteria air pollutants and associated health effects are based on the EPA's Criteria Air Pollutants (EPA 2016a) and the CARB Glossary of Air Pollution Terms (CARB 2016a).

susceptibility to infections, inflammation of and damage to the lung tissue, and some immunological changes (EPA 2013; CARB 2019a). These health problems are particularly acute in sensitive receptors such as the sick, older adults, and young children.

Inhalation of O_3 causes inflammation and irritation of the tissues lining human airways, causing and worsening a variety of symptoms. Exposure to O_3 can reduce the volume of air that the lungs breathe in and cause shortness of breath. O_3 in sufficient doses increases the permeability of lung cells, rendering them more susceptible to toxins and microorganisms. The occurrence and severity of health effects from O_3 exposure vary widely among individuals, even when the dose and the duration of exposure are the same. Research shows adults and children who spend more time outdoors participating in vigorous physical activities are at greater risk from the harmful health effects of O_3 exposure. While there are relatively few studies of O_3's effects on children, the available studies show that children are no more or less likely to suffer harmful effects than adults. However, there are a number of reasons why children may be more susceptible to O_3 and other pollutants. Children and teens spend nearly twice as much time outdoors and engaged in vigorous activities as adults. Children breathe more rapidly than adults and inhale more pollution per pound of their body weight than adults. Also, children are less likely than adults to notice their own symptoms and avoid harmful exposures. Further research may be able to better distinguish between health effects in children and adults. Children, adolescents and adults who exercise or work outdoors, where O_3 concentrations are the highest, are at the greatest risk of harm from this pollutant (CARB 2019a).

A number of population groups are potentially at increased risk for O_3 exposure effects. In the ongoing review of O_3, the EPA has identified populations as having adequate evidence for increased risk from O_3 exposures include individuals with asthma, younger and older age groups, individuals with reduced intake of certain nutrients such as Vitamins C and E, and outdoor workers. There is suggestive evidence for other potential factors, such as variations in genes related to oxidative metabolism or inflammation, gender, socioeconomic status, and obesity. However further evidence is needed (SCAQMD 2017).

The adverse effects reported with short-term O_3 exposure are greater with increased activity because activity increases the breathing rate and the volume of air reaching the lungs, resulting in an increased amount of O_3 reaching the lungs. Children may be a particularly vulnerable population to air pollution effects because they spend more time outdoors, are generally more active, and have a higher specific ventilation relative to their body weight, compared to adults (SCAQMD 2017).

Nitrogen Dioxide. A large body of health science literature indicates that exposure to NO_2 can induce adverse health effects. The strongest health evidence, and the health basis for the AAQS for NO_2, is results from controlled human exposure studies that show that NO_2 exposure can intensify responses to allergens in allergic asthmatics. In addition, a number of epidemiological studies have demonstrated associations between NO_2 exposure and premature death, cardiopulmonary effects, decreased lung function growth in children, respiratory symptoms, emergency room visits for asthma, and intensified allergic responses. Infants and children are particularly at risk because they have disproportionately higher exposure to NO_2 than adults due to their greater breathing rate for their body weight and their typically greater outdoor exposure duration. Several studies have shown that long-term NO_2 exposure during childhood, the period of rapid lung growth, can lead to smaller lungs at maturity in children with higher compared to lower levels of exposure. In addition, children with asthma have a greater degree of airway responsiveness compared with adult asthmatics. In adults, the greatest risk is to people who have chronic respiratory diseases, such as asthma and chronic obstructive pulmonary disease (CARB 2019b).

Carbon Monoxide. Carbon monoxide is harmful because it binds to hemoglobin in the blood, reducing the ability of blood to carry oxygen. This interferes with oxygen delivery to the body's organs. The most common effects of CO exposure are fatigue, headaches, confusion and reduced mental alertness, and light-headedness, dizziness due to inadequate oxygen delivery to the brain. For people with cardiovascular disease, short-term CO exposure can further reduce their body's already compromised ability to respond to the increased oxygen demands of exercise, exertion, or stress. Inadequate oxygen delivery to the heart muscle leads to chest pain and decreased exercise tolerance. Unborn babies whose mothers experience high levels of CO exposure during pregnancy are at risk of adverse developmental effects. Unborn babies, infants, elderly people, and people with anemia or with a history of heart or respiratory disease are most likely to experience health effects with exposure to elevated levels of CO (CARB 2019c).

Sulfur Dioxide. SO_2 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 (PM), SO_2 can injure lung tissue and reduce visibility and the level of sunlight. SO_2 can worsen asthma resulting in increased symptoms, increased medication usage, and emergency room visits.

Controlled human exposure and epidemiological studies show that children and adults with asthma are more likely to experience adverse responses with SO_2 exposure, compared with the non-asthmatic population. Effects at levels near the one-hour standard are those of asthma exacerbation, including bronchoconstriction accompanied by symptoms of respiratory irritation such as wheezing, shortness of breath and chest tightness, especially during exercise or physical activity. Also, exposure at elevated levels of SO_2 (above 1 part per million [ppm]) results in increased incidence of pulmonary symptoms and disease, decreased pulmonary function, and increased risk of mortality. The elderly and people with cardiovascular disease or chronic lung disease (such as bronchitis or emphysema) are most likely to experience these adverse effects (CARB 2019d).

SO_2 is of concern both because it is a direct respiratory irritant and because it contributes to the formation of sulfate and sulfuric acid in PM (NRC 2005). People with asthma are of particular concern, both because they have increased baseline airflow resistance and because their SO_2-induced increase in resistance is greater than in healthy people, and it increases with the severity of their asthma (NRC 2005). SO_2 is thought to induce airway constriction via neural reflexes involving irritant receptors in the airways (NRC 2005).

Particulate Matter

A number of adverse health effects have been associated with exposure to both $PM_{2.5}$ and PM_{10}. For $PM_{2.5}$, short-term exposures (up to 24-hours duration) have been associated with premature mortality, increased hospital admissions for heart or lung causes, acute and chronic bronchitis, asthma attacks, emergency room visits, respiratory symptoms, and restricted activity days. These adverse health effects have been reported primarily in infants, children, and older adults with preexisting heart or lung diseases. In addition, of all of the common air pollutants, $PM_{2.5}$ is associated with the greatest proportion of adverse health effects related to air pollution, both in the United States and world-wide based on the World Health Organization's Global Burden of Disease project. Short-term exposures to PM_{10} have been associated primarily with worsening of respiratory diseases, including asthma and chronic obstructive pulmonary disease, leading to hospitalization and emergency department visits (CARB 2017a).

Long-term (months to years) exposure to $PM_{2.5}$ has been linked to premature death, particularly in people who have chronic heart or lung diseases, and reduced lung function growth in children. The effects of long-term exposure to PM_{10} are less clear, although several studies suggest a link between long-term PM_{10} exposure and respiratory

mortality. The International Agency for Research on Cancer published a review in 2015 that concluded that PM in outdoor air pollution causes lung cancer (CARB 2017a).

People with influenza, people with chronic respiratory and cardiovascular diseases, and older adults may suffer worsening illness and premature death as a result of breathing PM. People with bronchitis can expect aggravated symptoms from breathing PM. Children may experience a decline in lung function due to breathing in PM_{10} and $PM_{2.5}$ (EPA 2009).

PM encompasses a physically and chemically diverse class of ambient air pollutants of both anthropogenic and biological origin. The PM standard is the only NAAQS that does not target a specific chemical or family of chemical species (NRC 2005). The range of human health effects associated with ambient PM levels or demonstrated in laboratory studies has expanded from earlier concerns for total mortality and respiratory morbidity to include cardiac mortality and morbidity, blood vessel constriction, stroke, premature birth, low birth weight, retarded lung growth, enhancement of allergic responses, reduced resistance to infection, degenerative lesions in the brain, and lung cancer (EPA 2004).

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 intelligence quotient performance, psychomotor performance, reaction time, and growth. Children are highly susceptible to the effects of lead.

Reactive Organic Gases. Hydrocarbons are organic gases that are formed from hydrogen and carbon and sometimes other elements. Hydrocarbons that contribute to formation of O_3 are referred to and regulated as ROGs (also referred to as VOCs). 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 ROGs result from the formation of O_3 and its related health effects. High levels of ROGs in the atmosphere can interfere with oxygen intake by reducing the amount of available oxygen through displacement. Carcinogenic forms of hydrocarbons, such as benzene, are considered TACs. There are no separate health standards for ROGs as a group.

2.1.2.2 Non-Criteria Air 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 noncancerous health effects. A toxic substance released into the air is considered a TAC. TACs are identified by federal and state agencies

based on a review of available scientific evidence. In the State of California, TACs are identified through a two-step process that was established in 1983 under the Toxic Air Contaminant Identification and Control Act. This two-step process of risk identification and risk management and reduction was designed to protect residents from the health effects of toxic substances in the air. In addition, the California Air Toxics "Hot Spots" Information and Assessment Act, Assembly Bill (AB) 2588, was enacted by the legislature in 1987 to address public concern over the release of TACs into the atmosphere. The law requires facilities emitting toxic substances to provide local air pollution control districts with information that will allow an assessment of the air toxics problem, identification of air toxics emissions sources, location of resulting hotspots, notification of the public exposed to significant risk, and development of effective strategies to reduce potential risks to the public over 5 years.

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

Diesel Particulate Matter. 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 PM2.5 (CARB 2016b). DPM is typically composed of carbon particles ("soot," also called black carbon, or BC) and numerous organic compounds, including over 40 known cancer-causing organic substances. Examples of these chemicals include polycyclic aromatic hydrocarbons, benzene, formaldehyde, acetaldehyde, acrolein, and 1,3-butadiene (CARB 2016b). The CARB classified "particulate emissions from diesel-fueled engines" (i.e., DPM; 17 CCR 93000) as a TAC in August 1998. 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 PM2.5, DPM also contributes to the same noncancerous health effects as PM2.5 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 2016b). Those most vulnerable to noncancerous 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 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. Known as odor fatigue, a person can become desensitized to almost any odor, and recognition may only occur with an alteration in the intensity. The occurrence and severity of odor impacts depend on the nature, frequency, and intensity of the source; wind speed and direction; and the sensitivity of receptors.

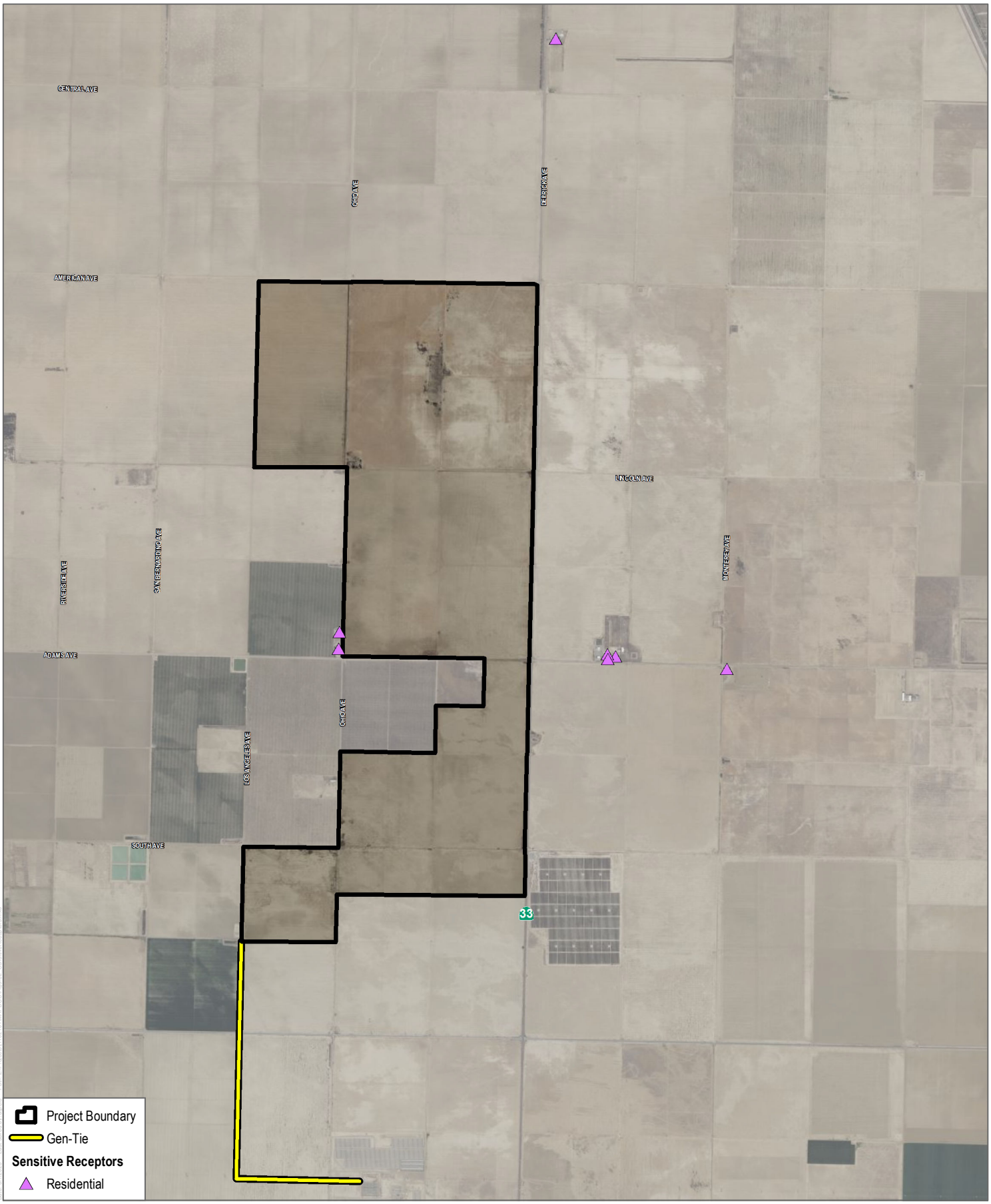
Valley Fever. Coccidioidomycosis, more commonly known as "valley fever," is an infection caused by inhalation of the spores of the *Coccidioides immitis* fungus, which grows in the soils of the southwestern United States. When fungal spores are present, any activity that disturbs the soil, such as digging, grading, or other earth-moving operations, can cause the spores to become airborne and thereby increase the risk of exposure. The ecologic factors that appear to be most conducive to survival and replication of the spores are high summer temperatures, mild winters, sparse rainfall, and alkaline sandy soils.

The fungus is very prevalent in the soils of California's San Joaquin Valley. Per the California Department of Public Health (CDPH), the range over 8 years (2012–2020) for coccidioidomycosis cases in Fresno County is 16.6 – 83.2 cases per 100,000 people per year. Statewide incidences in 2020 were 18.1 per 100,000 people (CDPH 2019). As such, it is considered highly endemic to Fresno County.

The project would be required to comply with Rule 8021, Section 6.3, which would require the project to develop, prepare, submit, obtain approval of, and implement a dust control plan.

2.1.3 Sensitive Receptors

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 include children, the elderly, athletes, and people with cardiovascular and chronic respiratory diseases. Facilities and structures where these air pollution-sensitive people live or spend considerable amounts of time are known as sensitive receptors. Land uses where air pollution-sensitive individuals are most likely to spend time include schools and schoolyards, parks and playgrounds, daycare centers, nursing homes, hospitals, and residential communities (sensitive sites or sensitive land uses) (CARB 2005). The SJVAPCD identifies sensitive receptors as facilities that house or attract children, the elderly, people with illnesses, hospitals, schools, convalescent facilities, and residential areas (SJVAPCD 2000). The closest off-site sensitive receptor to the project site includes a residence located 80 feet west of the project site. Figure 2 shows the sensitive receptors closest to the project site.



SOURCE: Fresno County; Bing Maps

DUDEK

0 0.25 0.5 Miles

FIGURE 2

Sensitive Receptors

Heartland Solar Project

2.2 Regulatory Setting

2.2.1 Federal Regulations

2.2.1.1 Criteria Air Pollutants

The federal Clean Air Act, passed in 1970 and last amended in 1990, forms the basis for the national air pollution control effort. The EPA is responsible for implementing most aspects of the Clean Air Act, including setting National Ambient Air Quality Standards (NAAQS) for major air pollutants; setting hazardous air pollutant (HAP) standards; approving state attainment plans; setting motor vehicle emission standards; issuing stationary source emission standards and permits; and establishing acid rain control measures, stratospheric O_3 protection measures, and enforcement provisions. Under the Clean Air Act, NAAQS are established for the following criteria pollutants: O_3, CO, NO_2, SO_2, PM_{10}, $PM_{2.5}$, and lead.

The NAAQS describe acceptable air quality conditions designed to protect the health and welfare of the citizens of the nation. The NAAQS (other than for O_3, NO_2, SO_2, PM_{10}, $PM_{2.5}$, and those based on annual averages or arithmetic mean) are not to be exceeded more than once per year. NAAQS for O_3, NO_2, SO_2, PM_{10}, and $PM_{2.5}$ are based on statistical calculations over 1- to 3-year periods, depending on the pollutant. The Clean Air Act requires the EPA to reassess the NAAQS at least every 5 years to determine whether adopted standards are adequate to protect public health based on current scientific evidence. States with areas that exceed the NAAQS must prepare a state implementation plan that demonstrates how those areas will attain the NAAQS within mandated time frames. A more detailed discussion of the NAAQS, as well as the CAAQS (discussed below), is provided in Appendix D.

2.2.1.2 Hazardous Air Pollutants

The 1977 federal Clean Air Act amendments required the EPA to identify National Emission Standards for Hazardous Air Pollutants to protect public health and welfare. HAPs include certain volatile organic chemicals, pesticides, herbicides, and radionuclides that present a tangible hazard, based on scientific studies of exposure to humans and other mammals. Under the 1990 federal Clean Air Act Amendments, which expanded the control program for HAPs, 187 substances and chemical families were identified as HAPs.

2.2.2 State Regulations

2.2.2.1 Criteria Air Pollutants

The federal Clean Air Act delegates the regulation of air pollution control and the enforcement of the NAAQS to the states. In California, 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, which became part of the California Environmental Protection Agency in 1991, is responsible for ensuring implementation of the California Clean Air Act of 1988, responding to the federal Clean Air Act, and regulating emissions from motor vehicles and consumer products.

CARB has established California Ambient Air Quality Standards (CAAQS), which are generally more restrictive than the NAAQS. As stated previously, an ambient air quality standard defines the maximum amount of a pollutant averaged over a specified period of time that can be present in outdoor air without harm to the public's health. For

each pollutant, concentrations must be below the relevant CAAQS before a basin can attain the corresponding CAAQS. Air quality is considered "in attainment" if pollutant levels are continuously below the CAAQS and violate the standards no more than once each year. The CAAQS for O_3, CO, SO_2 (1-hour and 24-hour), NO_2, PM_{10}, and $PM_{2.5}$ and visibility-reducing particles are values that are not to be exceeded.

The SJVAPCD has based their thresholds of significance for CEQA purposes on the levels that scientific and factual data demonstrate that the air basin can accommodate without affecting the attainment date for the NAAQS or CAAQS. Since an ambient air quality standard is based on maximum pollutant levels in outdoor air that would not harm the public's health, and air district thresholds pertain to attainment of the ambient air quality standard, this means that the thresholds established by air districts are also protective of human health. All others are not to be equaled or exceeded. 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/m³)	—	Same as Primary Standard[f]
	8 hours	0.070 ppm (137 µg/m³)	0.070 ppm (137 µg/m³)[f]	
NO_2[g]	1 hour	0.18 ppm (339 µg/m³)	0.100 ppm (188 µg/m³)	Same as Primary Standard
	Annual Arithmetic Mean	0.030 ppm (57 µg/m³)	0.053 ppm (100 µg/m³)	
CO	1 hour	20 ppm (23 mg/m³)	35 ppm (40 mg/m³)	None
	8 hours	9.0 ppm (10 mg/m³)	9 ppm (10 mg/m³)	
SO_2[h]	1 hour	0.25 ppm (655 µg/m³)	0.075 ppm (196 µg/m³)	—
	3 hours	—	—	0.5 ppm (1,300 µg/m³)
	24 hours	0.04 ppm (105 µg/m³)	0.14 ppm (for certain areas)[g]	—
	Annual	—	0.030 ppm (for certain areas)[g]	0.010 ppm (26.2 µg/m³)
PM_{10}[i]	24 hours	50 µg/m³	150 µg/m³	Same as Primary Standard
	Annual Arithmetic Mean	20 µg/m³	—	
$PM_{2.5}$[i]	24 hours	—	35 µg/m³	Same as Primary Standard
	Annual Arithmetic Mean	12 µg/m³	9.0 µg/m³	15.0 µg/m³
Lead[j,k]	30-day Average	1.5 µg/m³	—	—
	Calendar Quarter	—	1.5 µg/m³ (for certain areas)[k]	Same as Primary Standard
	Rolling 3-Month Average	—	0.15 µg/m³	
Hydrogen sulfide	1 hour	0.03 ppm (42 µg/m³)	—	—
Vinyl chloride[j]	24 hours	0.01 ppm (26 µg/m³)	—	—
Sulfates	24- hours	25 µg/m³	—	—
Visibility reducing particles	8 hour (10:00 a.m. to 6:00 p.m. PST)	Insufficient amount to produce an extinction coefficient of 0.23 per kilometer due to the number of particles when the relative humidity is less than 70%	—	—

Source: CARB 2016c.

Notes: µg/m³ = micrograms per cubic meter; mg/m³= milligrams per cubic meter; ppm = parts per million by volume; O_3 = ozone; NO_2 = nitrogen dioxide; CO = carbon monoxide; SO_2 = sulfur dioxide; PM_{10} = 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 O_3, CO, SO_2 (1-hour and 24-hour), NO_2, suspended particulate matter (PM_{10}, $PM_{2.5}$), 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 O_3, NO_2, SO_2, particulate matter, and those based on annual averages or annual arithmetic mean) are not to be exceeded more than once per year. The O_3 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 PM_{10}, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m³ is equal to or less than 1. For $PM_{2.5}$, the 24-hour standard is attained when 98% of the daily concentrations, averaged over 3 years, are equal to or less than the standard.

[c] Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based on a reference temperature of 25°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 O_3 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 SO_2 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 SO_2 national standards (24-hour and annual) remain in effect until 1 year after an area is designated for the 2010 standard, except that in areas designated nonattainment of the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.

[i] On December 14, 2012, the national annual $PM_{2.5}$ primary standard was lowered from 15 µg/m³ to 12.0 µg/m³. The existing national 24-hour $PM_{2.5}$ standards (primary and secondary) were retained at 35 µg/m³, as was the annual secondary standard of 15 µg/m³. The existing 24-hour PM_{10} standards (primary and secondary) of 150 µg/m³ were also retained. The form of the annual primary and secondary standards is the annual mean averaged over 3 years.

[j] CARB has identified lead and vinyl chloride as TACs with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.

[k] The national standard for lead was revised on October 15, 2008, to a rolling 3-month average. The 1978 lead standard (1.5 µg/m³ as a quarterly average) remains in effect until 1 year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.

2.2.2.2 Toxic Air Contaminants

The state Air Toxics Program was established in 1983 under Assembly Bill (AB) 1807 (Tanner). The California TAC list identifies more than 700 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. In 1987, the Legislature enacted the Air Toxics "Hot Spots" Information and Assessment Act of 1987 (AB 2588) to address public concern over the release of TACs into the atmosphere. AB 2588 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. 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, the facility operator is 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 (CARB 2000). The regulation is 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. These regulations and programs have timetables by which manufacturers must comply and existing operators must upgrade their diesel-powered equipment. There are several Airborne Toxic Control Measures that reduce diesel emissions, including In-Use Off-Road Diesel-Fueled Fleets (13 CCR 2449 et seq.) and In-Use On-Road Diesel-Fueled Vehicles (13 CCR 2025).

California Health and Safety Code Section 41700

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

Safety Training on Valley Fever Assembly Bill 203

AB 203 adds Section 6709 to the Labor Code and requires employers to provide effective Valley Fever awareness and prevention training for all construction employees at risk of prolonged exposure to dust in Fresno, Kern, Kings, Madera, Merced, Monterey, San Joaquin, San Luis Obispo, Santa Barbara, Tulare, and Ventura Counties by May 1, 2020, annually by that date thereafter, and again before an employee begins work that is reasonably anticipated to cause exposure to substantial dust disturbance.

2.2.3 Local Regulations

2.2.3.1 San Joaquin Valley Air Pollution Control District

The SJVAPCD is the regional agency responsible for the regulation and enforcement of federal, state, and local air pollution control regulations in the SJVAB. The SJVAPCD jurisdiction includes all of Merced, San Joaquin, Stanislaus, Madera, Fresno, Kings, and Tulare Counties, and the San Joaquin Valley portion of Kern County.

Air Quality Plans

The SJVAPCD has prepared several air quality attainment plans to achieve the O_3 and particulate matter standards, the most recent of which include the *2020 Reasonably Available Control Technology Demonstration for the 2015 8-Hour Ozone Standard (SJVAPCD 2020a), 2016 Plan for the 2008 8-Hour Ozone Standard* (SJVAPCD 2016a), *2014 Reasonably Available Control Technology Demonstration for the 8-Hour Ozone State Implementation Plan* (SJVAPCD 2014a), *2013 Plan for the Revoked 1-Hour Ozone Standard* (SJVAPCD 2013), *2007 PM_{10} Maintenance Plan and Request for Redesignation* (SJVAPCD 2007a), *2012 $PM_{2.5}$ Plan* (SJVAPCD 2012), *2015 Plan for the 1997 $PM_{2.5}$ Standard* (SJVAPCD 2015b), *2016 Moderate Area Plan for the 2012 $PM_{2.5}$ Standard* (SJVAPCD 2016b), and the *2018 Plan for the 1997, 2006, and 2012 $PM_{2.5}$ Standards* (SJVAPCD 2020b). The following sections summarize key elements of these and other recent air quality attainment plans.

Extreme 1-Hour Ozone Attainment Demonstration Plan

The *Extreme 1-Hour Ozone Attainment Demonstration Plan*, adopted by the SJVAPCD Governing Board October 8, 2004, sets forth measures and emission-reduction strategies designed to attain the federal 1-hour O_3 standard by November 15, 2010, as well as an emissions inventory, outreach, and rate of progress demonstration. This plan was approved by the EPA on March 8, 2010; however, the EPA's approval was subsequently withdrawn effective November 26, 2012, in response to a decision issued by the U.S. Court of Appeals for the Ninth Circuit (*Sierra Club v. EPA*, 671 F.3d 955) remanding EPA's approval of these SIP revisions. Concurrent with the EPA's final rule, CARB withdrew the 2004 plan. The SJVAPCD developed a new plan for the 1-hour O_3 standard, the *2013 Plan for the Revoked 1-Hour Ozone Standard*, which it adopted in September 2013.

2007 8-Hour Ozone Plan

The *2007 8-Hour Ozone Plan*, adopted by the Governing Board on April 30, 2007, sets forth measures and a "dual path" strategy to attain the federal 1997 8-hour O_3 standard by 2023 for the SJVAB by reducing emissions of O_3 and particulate matter precursors (SJVAPCD 2007b). The plan also includes provisions for improved pollution control technologies for mobile and stationary sources, as well as an increase in state and federal funding for incentive-based measures to reduce emissions. All local measures would be adopted by the SJVAPCD before 2012. This plan was approved by the EPA on April 30, 2012. On November 26, 2012, however, the EPA withdrew its determination that the plan satisfied the federal Clean Air Act requirements regarding emissions growth caused by growth in vehicle miles traveled. All other determinations in the EPA's March 1, 2012, rule approving the plan remain unchanged and in effect. The SJVAPCD is currently in the process of developing an O_3 plan to address EPA's 2008 8-hour O_3 standard, with attainment required by 2032.

2009 Reasonably Available Control Technology (RACT) SIP

On April 16, 2009, the Governing Board adopted the *Reasonably Available Control Technology Demonstration for Ozone State Implementation Plans* (2009 RACT SIP) (SJVAPCD 2009a). In part, the 2009 RACT SIP satisfied the commitment by the SJVAPCD for a new RACT analysis for the 1-hour O_3 plan (see discussion of the EPA withdrawal of approval in the *Extreme 1-Hour Ozone Attainment Demonstration Plan* summary above) and was intended to prevent all sanctions that could be imposed by EPA for failure to submit a required SIP revision for the 1-hour O_3 standard. With respect to the 8-hour standard, the plan also assesses the SJVAPCD's rules based on the adjusted major source definition of 10 tons per year (due to the SJVAB's designation as an extreme O_3 nonattainment area), evaluates SJVAPCD rules against new Control Techniques Guidelines promulgated since August 2006, and reviews additional rules and rule amendments that had been adopted by the Governing Board since August 17, 2006, for RACT consistency.

2013 Plan for the Revoked 1-Hour Ozone Standard

The SJVAPCD developed a plan for EPA's revoked 1-hour O_3 standard after the EPA withdrew its approval of the 2004 *Extreme 1-Hour Ozone Attainment Demonstration Plan* as a result of litigation. As a result of the litigation, the EPA reinstated previously revoked requirements for 1-hour O_3 attainment plans. The 2013 plan addresses those requirements, including a demonstration of implementation of Reasonably Available Control Measures and a demonstration of a rate of progress averaging 3% annual reductions of ROG or NO_x emissions every 3 years. The *2013 Plan for the Revoked 1-Hour Ozone Standard* was approved by the Governing Board on September 19, 2013 (SJVAPCD 2013). Based on implementation of the ongoing control measures, preliminary modeling indicates that the SJVAB will attain the 1-hour O_3 standard by 2017, before the final attainment year of 2022 and without relying on long-term measures under the federal Clean Air Act Section 182(e)(5) ("black box reductions").

2014 RACT SIP

On June 19, 2014, the Governing Board adopted the *2014 Reasonably Available Control Technology Demonstration for the 8-Hour Ozone State Implementation Plan* (2014 RACT SIP) (SJVAPCD 2014a). This RACT SIP includes a demonstration that the SJVAPCD rules implement RACT. The plan reviews each of the NO_x reduction rules and concludes that they satisfy requirements for stringency, applicability, and enforceability, and meet or exceed RACT. The plan's analysis of further ROG reductions through modeling and technical analyses demonstrates that added ROG reductions will not advance SJVAB's O_3 attainment. Each ROG (i.e., VOC) rule evaluated in the 2009 RACT SIP, however, has been subsequently approved by the EPA as meeting RACT within the last 2 years. The O_3 attainment strategy, therefore, focuses on further NO_x reductions.

SJVAPCD 2016 Plan for the 2008 8-Hour Ozone Standard

The SJVAPCD adopted the 2016 Plan for the 2008 8-Hour Ozone Standard in June 2016. This plan demonstrates the practicable and expeditious attainment of the 75 parts per billion 8-hour O_3 standard.

SJVAPCD 2016 Moderate Area Plan for the 2012 PM2.5 Standard

The SJVAPCD adopted the 2016 Moderate Area Plan for the 2012 $PM_{2.5}$ Standard on September 15, 2016. This plan addresses the EPA federal annual $PM_{2.5}$ standard of 12 µg/m^3, established in 2012. This plan includes an attainment impracticability demonstration and request for reclassification of the San Joaquin Valley Air Basin (SJVAB) from Moderate nonattainment to Serious nonattainment.

SJVAPCD 2018 Plan for the 1997, 2006, and 2012 PM2.5 Standards

The SJVAPCD adopted the 2018 Plan for the 1997, 2006, and 2012 $PM_{2.5}$ Standards on November 15, 2018. This plan addresses the U.S. Environmental Protection Agency (EPA) federal 1997 annual $PM_{2.5}$ standard of 15 µg/m³ and 24-hour $PM_{2.5}$ standard of 65 µg/m³; the 2006 24-hour $PM_{2.5}$ standard of 35 µg/m³; and the 2012 annual $PM_{2.5}$ standard of 12 µg/m³. This plan demonstrates attainment of the federal $PM_{2.5}$ standards as expeditiously as practicable.

SJVAPCD 2022 Plan for the 2015 8-Hour Ozone Standard

The District adopted the *2022 Plan for the 2015 8-Hour Ozone Standard* on December 15, 2022. This Plan satisfies Clean Air Act requirements and ensures expeditious attainment of the 70 parts per billion 8-hour ozone standard.

SJVAPCD 2024 Plan for the 2012 PM2.5 Standards

The U.S. Environmental Protection Agency (EPA) established the 2012 PM2.5 annual standard of 12 µg/m³ on January 13, 2013. The Clean Air Act (CAA) mandates the District to develop and submit an attainment plan for the 2012 annual PM2.5 standard to EPA.

EPA initially designated the District as Moderate nonattainment for the 2012 PM2.5 standard in 2015. The District submitted the *2016 PM2.5 Plan* to address Moderate area requirements for the 2012 PM2.5 standard and to request to be reclassified to Serious nonattainment. EPA approved the Moderate Plan and reclassified the District to Serious nonattainment, effective December 2021.

The District adopted the *Initial State Implementation Plan (SIP) Requirements for the 2012 Annual PM2.5 Standard* on October 19, 2023, to fulfill the first portion of SIP elements required by the CAA for Serious PM2.5 nonattainment areas, including an updated emissions inventory, precursor demonstration, and the demonstration that BACM requirements continue to be satisfied in the Valley. Additionally, the District fulfilled Nonattainment New Source Review (NNSR) requirements through amendments to District Rule 2201 (New and Modified Stationary Source Review Rule) in April 2023.

The District adopted the *2024 Plan for the 2012 Annual PM2.5 Standard* on June 20, 2024, to fulfill the remaining CAA requirements, including the final modeling analysis, attainment strategy and emission reduction commitments, reasonable further progress/quantitative milestones, and contingency measures. This Plan demonstrates expeditious attainment of the 2012 PM2.5 standard by 2030.

2020 RACT Demonstration

The SJVAPCD adopted the 2020 RACT Demonstration for the 2015 8-Hour Ozone Standard on June 18, 2020. The Valley is classified as an Extreme nonattainment area for the 2015 O_3 standard. The 2020 RACT Demonstration includes a comprehensive evaluation of all NOx and ROG SJVAPCD rules to ensure that each rule meets or exceeds RACT. The 2020 RACT Demonstration fulfills CAA requirements and demonstrates that all federal RACT requirements continue to be satisfied in the Valley.

Particulate Matter Attainment Plans

2007 PM10 Maintenance Plan and Request for Redesignation

On September 20, 2007, the Governing Board approved the *2007 PM_{10} Maintenance Plan and Request for Redesignation* (SJVAPCD 2007a). After achieving compliance with the annual and 24-hour NAAQS for PM_{10} during the period from 2003 to 2006,[3] the SJVAPCD prepared the *2007 PM_{10} Maintenance Plan and Request for Redesignation*. The plan includes future emission estimates through 2020 and, based on modeling, projects that SJVAB will continue to attain the PM_{10} NAAQS through 2020. The plan does not call for adoption of new control measures. Measures called for in the *2007 8-Hour Ozone Plan* and *2008 $PM_{2.5}$ Plan* (discussed below) will also produce PM_{10} benefits; however, the plan does include a contingency plan if future PM_{10} levels were to exceed the NAAQS. It also includes a request that the EPA redesignate the SJVAB to attainment status for the PM_{10} NAAQS. On October 25, 2007, CARB approved the SJVAPCD's plan with modifications to the transportation conformity budgets. On September 25, 2008, the EPA redesignated the SJVAB to attainment for the PM_{10} NAAQS and approved the PM_{10} maintenance plan.

2008 PM2.5 Plan

The SJVAPCD Governing Board adopted the *2008 $PM_{2.5}$ Plan* on April 30, 2008 (SJVAPCD 2008). This plan is designed to assist the SJVAB in attaining all $PM_{2.5}$ standards, including the 1997 federal standards, the 2006 federal standards, and the state standard, as soon as possible. On July 13, 2011, the EPA issued a proposed rule partially approving and disapproving the *2008 $PM_{2.5}$ Plan*. Subsequently, on November 9, 2011, the EPA issued a final rule approving most of the plan with an effective date of January 9, 2012. However, the EPA disapproved the plan's contingency measures because they would not provide sufficient emission reductions.

2012 PM2.5 Plan

Approved by the Governing Board on December 20, 2012, the *2012 $PM_{2.5}$ Plan* addresses attainment of EPA's 24-hour $PM_{2.5}$ standard of 35 micrograms per cubic meter (µg/m³) established in 2006. In addition to reducing direct emissions of $PM_{2.5}$, this plan focuses on reducing emissions of NO_x, which is a predominant pollutant in the formation of $PM_{2.5}$ in the SJVAB. The plan relies on a multilevel approach to reducing emissions through SJVAPCD efforts (industry, the general public, employers, and small businesses) and state/federal efforts (passenger vehicles, heavy-duty trucks, and off-road sources), as well as SJVAPCD and state/federal incentive programs to accelerate replacement of on- and off-road vehicles and equipment. Through compliance with this attainment plan, the SJVAB would achieve attainment of the federal $PM_{2.5}$ standard by the attainment deadline of 2019, with the majority of the SJVAB actually experiencing attainment well before the deadline. The EPA lowered the $PM_{2.5}$ standard again in 2012 and is in the process of completing attainment designations.

2015 Plan for the 1997 PM2.5 Standard

The Governing Board adopted the *2015 Plan for the 1997 $PM_{2.5}$ Standard* on April 16, 2015 (SJVAPCD 2015b). This plan addresses the EPA's annual $PM_{2.5}$ standard of 15 micrograms per cubic meter (µg/m³) and 24-hour $PM_{2.5}$ standard of 65 µg/m³ established in 1997. While nearly achieving the 1997 standards, the SJVAB experienced higher $PM_{2.5}$ levels in winter 2013–2014 due to the extreme drought, stagnation, strong inversions, and historically dry conditions; thus, the

[3] Attainment is achieved if the 3-year annual average PM_{10} concentration is less than or equal to 50 µg/m³ and the expected 24-hour exceedance days is less than or equal to 1.0.

SJVAPCD was unable to meet the attainment date of December 31, 2015. Accordingly, this plan also contains a request for a one-time extension of the attainment deadline for the 24-hour standard to 2018 and the annual standard to 2020. The plan builds on past development and implementation of effective control strategies. Consistent with EPA regulations for $PM_{2.5}$ plans to achieve the 1997 standards, the plan contains Most Stringent Measures, Best Available Control Measures, additional enforceable commitments for further reductions in emissions, and ensures expeditious attainment of the 1997 standard.

2016 Moderate Area Plan for the 2012 $PM_{2.5}$ Standard

On September 15, 2016, the Governing Board adopted the *2016 Moderate Area Plan for the 2012 $PM_{2.5}$ Standard* (SJVAPCD 2016b). This plan addresses the federal mandates for areas classified as "moderate nonattainment" for the 2012 $PM_{2.5}$ NAAQS of 12 µg/m^3. Consistent with EPA's $PM_{2.5}$ Implementation Rule, the plan satisfies the mandate to submit a moderate nonattainment plan to EPA by October 2016, demonstrates impracticability of attaining the 2012 $PM_{2.5}$ standard by the moderate nonattainment deadline of 2021, includes a request to reclassify the San Joaquin Valley to a "serious nonattainment" area for the 2012 PM2.5 standard, satisfies all federal Clean Air Act requirements for moderate nonattainment areas, and demonstrates that emissions are continuing to be reduced in the San Joaquin Valley.

2017 Particulate Matter Plans

The SJVAPCD is in the process of developing an attainment strategy to address the 1997, 2006, and 2012 $PM_{2.5}$ standards and a plan to demonstrate maintenance of the 1987 PM_{10} standard, as required under the federal Clean Air Act.

Senate Bill 656 Particulate Matter Control Measure Implementation Schedule

Senate Bill (SB) 656 was enacted in 2003 and codified as California Health and Safety Code Section 39614. SB 656 seeks to reduce exposure to PM_{10} and $PM_{2.5}$ and to make further progress toward attainment of the NAAQS and CAAQS for PM_{10} and $PM_{2.5}$. SB 656 required CARB, in consultation with local air districts, to develop and adopt lists of "the most readily available, feasible, and cost-effective" particulate matter control measures. Subsequently, the air districts were required to adopt implementation schedules for the relevant control measures in their district. In June 2005, the SJVAPCD adopted its SB 656 Particulate Matter Control Measure Implementation Schedule. The SJVAPCD analysis of the CARB list concluded that all but one of the measures that apply to SJVAPCD sources had been implemented or were in one of the SJVAPCD's attainment plans for adoption within the next 2 years. The remaining measure pertains to a future amendment of a rule for gasoline transfer into stationary storage containers, delivery vessels, and bulk plants.

Applicable Rules

The SJVAPCD's primary means of implementing air quality plans is by adopting and enforcing rules and regulations. Stationary sources within the jurisdiction are regulated by the SJVAPCD's permit authority over such sources and through its review and planning activities. Unlike stationary source projects, which encompass very specific types of equipment, process parameters, throughputs, and controls, air emissions sources from land use development projects are mainly mobile sources (traffic) and area sources (small dispersed stationary and other non-mobile sources), including exempt (i.e., no permit required) sources such as consumer products, landscaping equipment, furnaces, and water heaters. Mixed-use land development projects may include nonexempt sources

including devices such as small to large boilers, stationary internal combustion engines, gas stations, or asphalt batch plants.

Notwithstanding nonexempt stationary sources, which would be permitted on a case-by-case basis, SJVAPCD Regulations VIII and IX generally apply to land use development projects and are described below:

Regulation IV – Prohibitions

- **Rule 4102: Nuisance** – Prohibits discharge of air contaminants or other materials from any source which causes injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public or which endanger the comfort, repose, health, or safety of any such person or the public or which cause or have a natural tendency to cause injury or damage to business or property.
- **Rule 4601: Architectural Coatings** – The purpose of the rule is to limit VOC emissions from architectural coatings. This rule specifies architectural coatings storage, cleanup, and labeling requirements.
- **Rule 4641:** Cutback, Slow Cure, and Emulsified Asphalt, Paving and Maintenance Operations – The purpose of this rule is to limit VOC emissions by restricting the application and manufacturing of certain types of asphalt for paving and maintenance operations.

Regulation VIII – Fugitive PM_{10} Prohibition

- **Rule 8021:** Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities – The purpose of this rule is to limit fugitive dust emissions from construction, demolition, excavation, extraction, and other earthmoving activities. The rule outlines Dust Control Plan requirements for certain applicable construction activities.
- **Rule 8031:** Bulk Materials – The purpose of the rule is to limit fugitive dust emissions from the outdoor handling, storage, and transport of bulk materials.
- **Rule 8041:** Carryout and Trackout – The purpose of this rule is to prevent or limit fugitive dust emissions from carryout and trackout.
- **Rule 8051:** Open Areas – The purpose of this rule is to limit fugitive dust emissions from open areas.
- **Rule 8061:** Paved and Unpaved Roads – The purpose of this rule is to limit fugitive dust emissions from paved and unpaved roads by implementing control measures and design criteria.
- **Rule 8071:** Unpaved Vehicle/Equipment Traffic Areas – The purpose of this rule is to limit fugitive dust emissions from unpaved vehicle and equipment traffic areas.

Pursuant to Rule 8021, Section 6.3, the project would be required to develop, prepare, submit, obtain approval of, and implement a dust control plan, which would reduce fugitive dust impacts to less than significant during project construction.

Regulation IX – Mobile and Indirect Sources

- **Rule 9110:** General Conformity – The rule specifies the criteria and procedures for determining the conformity of federal actions with the San Joaquin Valley Unified Air Pollution Control District's air quality implementation plan.

- **Rule 9120:** Transportation Conformity – The rule sets forth the principles for determining conformity of transportation plans, programs, and projects which are developed, funded, or approved by the U.S. Department of Transportation (DOT), and by metropolitan planning organizations (MPOs) or other recipients of funds under Title 23 U.S.C. or the Federal Transit Act. The rule sets forth policy, criteria, and procedures for demonstrating and assuring conformity of such activities to an applicable implementation plan developed pursuant to the Clean Air Act.
- **Rule 9410**: Employer Based Trip Reduction – The purpose of this rule is to reduce vehicle miles traveled (VMT) from private vehicles used by employees to commute to and from their worksites to reduce emissions of oxides of nitrogen, volatile organic compounds, and particulate matter.
- **Rule 9510**: Indirect Source Review (ISR) – The purpose of this rule is to fulfill the District's emission reduction commitments in the PM_{10} and Ozone Attainment Plans, achieve emission reductions from the construction and use of development projects through design features and on-site measures, and provide a mechanism for reducing emissions from the construction of and use of development projects through off-site measures.
- **Rule 9610:** State Implementation Plan Credit for Emission Reductions Generated through Incentive Programs – The purpose of this rule is to provide an administrative mechanism for the District to achieve credit towards State Implementation Plan requirements for emission reductions achieved in the San Joaquin Valley Air Basin through incentive programs administered by the District, U.S. Department of Agriculture Natural Resources Conservation Service, or CARB.

Rule 9510: Indirect Source Review

The ISR rule, which was adopted December 15, 2005, and went into effect March 1, 2006, requires developers of new residential, commercial, and some industrial projects to reduce NO_x and PM_{10} emissions generated by their projects. Pursuant to Rule 9510, the purpose of the ISR program is to reduce emissions of NO_x and PM_{10} from new land development projects. In general, development contributes to air pollution in the SJVAB increasing the number of vehicles and vehicle miles traveled. ISR applies to development projects that require discretionary approval from the lead agency. The ISR rule also applies to transportation and transit projects whose construction exhaust emissions would equal or exceed 2 tons per year of NO_x or PM_{10}. The ISR rule requires submittal of an air impact assessment application no later than the date on which application is made for a final discretionary approval from the public agency. The air impact assessment contains the information necessary to calculate both construction and operational emissions of a development project.

Section 6.0 of the ISR rule outlines general mitigation requirements for developments that include reduction in construction emissions of 20% of the total construction NO_x emissions, and 45% of the total construction PM_{10} exhaust emissions. The rule also requires the project to reduce operational NO_x emissions by 33.3% and operational PM_{10} emissions by 50% compared to the unmitigated baseline. Section 7.0 of the ISR rule includes fee schedules for construction or operational excess emissions of NO_x or PM_{10}—those emissions above the goals identified in Section 6.0 of the rule. Monies collected from this fee are used by the SJVAPCD to fund emission reduction projects in the SJVAB on behalf of the project.

Rule 9610: State Implementation Plan Credit for Emission Reductions Generated through Incentive Programs

Rule 9610 provides an administrative mechanism for the SJVAPCD to receive credit towards SIP requirements for emission reductions achieved in the SJVAB through incentive programs administered by the SJVAPCD, U.S. Department of Agriculture

Natural Resources Conservation Service, or CARB. On April 9, 2015, EPA finalized a limited approval and limited disapproval (for a minor administrative error) of Rule 9610 as a revision to the California SIP. Additional documentation regarding the effectiveness of the SJVAPCD's incentive programs can be found in *2015 Annual Demonstration Report SIP Credit for Emission Reductions Generated Through Incentive Programs* (SJVAPCD 2015c).

2.2.3.2 Fresno Council of Governments

Fresno Council of Governments (FCOG) Board adopted the 2022 Regional Transportation Plan/ Sustainable Communities Strategy (RTP/SCS) on July 28, 2022 (FCOG 2022). The RTP/SCS is comprehensive in its response to new federal statues embodies in the Moving Ahead for Progress in the 21st Century and state statutes including Senate Bill 375. The RTP/SCS continues to provide a sustainability vision through year 2046 that recognizes the significant impact the transportation network has on the region's public health, mobility, and economic vitality. As the region's comprehensive long-range transportation planning document, the RTP/SCS serves as a guide for achieving public policy decisions that will result in balanced investments for a wide range of multimodal transportation improvements.

2.2.3.3 Fresno County

The County's General Plan Open Space and Conservation Element, the Air Quality section is intended to protect public health and welfare by implementing measures that allow the SJVAPCD to attain federal and state air quality standards. The Element sets forth a number of policies and standards to reduce current pollutant emissions and to require new development to include measures to comply with air quality standards. The County's General Plan Open Space and Conservation Element, Air Quality section includes the following:

Goal OS-G To improve air quality and minimize the adverse effects of air pollution in Fresno County.

Policies

Environmental Assessment and Mitigation

Policy OS-G.1 The County shall develop standard methods for determining and mitigating project air quality impacts and related thresholds of significance for use in environmental documents. The County will do this in conjunction with the SJVAPCD and the cities in Fresno County.

Policy OS-G.2 The County shall ensure that air quality impacts identified during the CEQA review process are fairly and consistently mitigated. The County shall require projects to comply with the County's adopted air quality impact assessment and mitigation procedures.

Coordination and Cooperation

Policy OS-G.3 The County shall participate with cities, surrounding counties, and regional agencies to address cross-jurisdictional and regional transportation and air quality issues.

Policy OS-G.4 The County shall consult with the SJVAPCD during CEQA review for projects that require air quality impact analysis and ensure that the SJVAPCD is on the distribution list for all CEQA documents.

Policy OS-G.5 The County shall participate with cities, surrounding counties, and regional agencies in the San Joaquin Valley in efforts to promote consistent air quality programs and implementation programs to the extent possible (e.g., transportation control measures, trip reduction ordinances, indirect source programs, etc.).

Integrated Planning

Policy OS-G.6 The County shall require all Fresno County transportation improvement projects that increase capacity by adding additional through lanes to be included in regional transportation plans and be consistent with the air quality goals and policies of the General Plan.

Public Facilities/Operation

Policy OS-G.7 The County shall develop and implement employer-based trip reduction programs for County employees.

Policy OS-G.8 The County shall encourage its departments to consider telecommuting programs as a trip reduction strategy.

Policy OS-G.9 The County fleet vehicle operators shall implement vehicle replacement practices that place a priority on replacement of older higher-emission vehicles and on purchasing new vehicles with engines using best available technologies and advanced fuels where feasible, consistent with cost-effective management of the program.

Policy OS-G.10 The County shall support the use of teleconferencing in lieu of employee travel to conferences and meetings when feasible.

Congestion Management/Transportation Control Measures Policy

OS-G.11 The County shall encourage the establishment of public/private partnerships to develop satellite and neighborhood work centers for telecommuting.

Toxic and Hazardous Emissions Policy

OS-G.12 The County shall continue, through its land use planning processes, to avoid inappropriate location of residential uses and sensitive receptors in relation to uses that include but are not limited to industrial and manufacturing uses and any other use which have the potential for creating a hazardous or nuisance effect.

Particulate Matter/Fugitive Dust Policy

OS-G.13 The County shall include fugitive dust control measures as a requirement for subdivision maps, site plans, and grading permits. This will assist in implementing the SJVUAPCD's PM_{10} regulation (Regulation VIII). Enforcement actions can be coordinated with the Air District's Compliance Division.

Policy OS-G.14 The County shall require all access roads, driveways, and parking areas serving new commercial and industrial development to be constructed with materials that minimize particulate emissions and are appropriate to the scale and intensity of use.

Policy OS-G.15 The County shall continue to work to reduce PM_{10} and $PM_{2.5}$ emissions from County-maintained roads by considering shoulder treatments for dust control as part of road reconstruction projects.

Woodburning

Policy OS-G.16 The County shall require the use of natural gas or the installation of low emission, EPA-certified fireplace inserts in all open hearth fireplaces in new homes. The County shall promote the use of natural gas over wood products in space heating devices and fireplaces in all existing and new homes.

2.3 Regional and Local Air Quality Conditions

2.3.1 San Joaquin Valley Air Basin Attainment Designation

Pursuant to the 1990 federal Clean Air Act amendments, the 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. If there is not enough data available to determine whether the standard is exceeded in an area, the area is designated as "unclassified" or "unclassifiable." The designation of "unclassifiable/attainment" means that the area meets the standard or is expected to be meet the standard despite a lack of monitoring data. Areas that achieve the standards after a nonattainment designation are re-designated as maintenance areas and must have approved Maintenance Plans to ensure continued attainment of the standards. The California Clean Air Act, like its federal counterpart, called for the designation of areas as "attainment" or "nonattainment," but based on CAAQS rather than the NAAQS. Table 2 depicts the current attainment status of the project site with respect to the NAAQS and CAAQS, as well as the attainment classifications for the criteria pollutants are outlined in Table 2.

Table 2. San Joaquin Valley Air Basin Attainment Status

Pollutant	Designation/Classification	
	National Designation	California Designation
Ozone (O_3) – 1-hour	No national standard[1]	Nonattainment/Severe
Ozone (O_3) – 8-hour	Nonattainment/Extreme[2]	Nonattainment
Nitrogen dioxide (NO_2)	Unclassifiable/attainment	Attainment
Carbon monoxide (CO)	Unclassifiable/attainment	Attainment
Sulfur dioxide (SO_2)	Unclassifiable/attainment	Attainment
Respirable particulate matter (PM_{10})	Attainment (Maintenance)[3]	Nonattainment
Fine particulate matter ($PM_{2.5}$)	Nonattainment[4]	Nonattainment
Lead (Pb)[5]	Unclassifiable/attainment	Attainment
Sulfates (SO_4)	No national standard	Attainment
Hydrogen sulfide (H_2S)	No national standard	Unclassified

Table 2. San Joaquin Valley Air Basin Attainment Status

Pollutant	Designation/Classification	
	National Designation	California Designation
Vinyl chloride[5]	No national standard	No designation
Visibility-reducing particles	No national standard	Unclassified

Sources: SJVAPCD 2020c; EPA 2018 (national); CARB 2019e (California).
Notes: Attainment = meets the standards; Attainment (maintenance) = achieve the standards after a nonattainment designation; Nonattainment = does not meet the standards; Unclassified or unclassifiable = insufficient data to classify; Unclassifiable/attainment = meets the standard or is expected to be meet the standard despite a lack of monitoring data.

1 Effective June 15, 2005, the EPA revoked the national 1-hour ozone standard, including associated designations and classifications. EPA had previously classified the SJVAB as extreme nonattainment for this standard. EPA approved the 2004 Extreme Ozone Attainment Demonstration Plan (SJVAPCD 2004) on March 8, 2010 (effective April 7, 2010). Many applicable requirements for extreme 1-hour ozone nonattainment areas continue to apply to the SJVAB.

2 Though the San Joaquin Valley was initially classified as serious nonattainment for the 1997 8-hour ozone standard, EPA approved San Joaquin Valley reclassification to extreme nonattainment in the Federal Register on May 5, 2010 (effective June 4, 2010).

3 On September 25, 2008, EPA re-designated the San Joaquin Valley to attainment for the PM_{10} NAAQS and approved the PM_{10} Maintenance Plan.

4 The San Joaquin Valley is designated nonattainment for the 1997 $PM_{2.5}$ NAAQS. EPA designated the San Joaquin Valley as nonattainment for the 2006 $PM_{2.5}$ NAAQS on November 13, 2009 (effective December 14, 2009).

5 CARB has identified lead and vinyl chloride as toxic air contaminants with no threshold level of exposure for adverse health effects determined.

In summary, the EPA has designated the SJVAB as a nonattainment area for the national 8-hour O_3 standard, and CARB has designated the SJVAB as a nonattainment area for the California 1-hour and 8-hour O_3 standards. The SJVAB has been designated as a nonattainment area for the California 24-hour and annual PM_{10} standards, a nonattainment area for the national 24-hour and annual $PM_{2.5}$ standards, and as a nonattainment area for the California annual $PM_{2.5}$ standard. The SJVAB is designated as unclassified or attainment for all other criteria air pollutants.

2.3.2 Local Ambient Air Quality

CARB, air districts, and other agencies monitor ambient air quality at approximately 250 air quality monitoring stations across the state. The SJVAPCD and CARB monitors local ambient air quality at the project site. Air quality monitoring stations usually measure pollutant concentrations 10 feet above ground level; therefore, air quality is often referred to in terms of ground-level concentrations. The most recent background ambient air quality data from 2021 to 2023 are presented in Table 3. The Tranquility monitoring station, located at 32650 West Adams Avenue, Tranquility, CA, 93668, is the nearest air quality monitoring station to the project site, located approximately 0.4 miles away. The data collected at this station are considered representative of the air quality experienced in the project vicinity. Air quality data for O_3 and $PM_{2.5}$ from the Tranquility monitoring station are provided in Table 3. Because NO_2, CO, and PM_{10} are not monitored at the Tranquility monitoring station, NO_2 and PM_{10} measurements were taken from the Fresno-Drummond monitoring station located at 4706 E. Drummond St, Fresno, CA, 93727 (36.3 miles) and CO measurements were taken from the Fresno-First Street monitoring station located at 3727 N. First Street, Fresno, CA, 93726 (35.3 miles). SO_2 is not currently monitored in the County and data is not available. The number of days exceeding the ambient air quality standards are also shown in Table 3.

Table 3. Local Ambient Air Quality Data

Monitoring Station	Unit	Averaging Time	Agency/Method	Ambient Air Quality Standard	Measured Concentration by Year			Exceedances by Year		
					2021	2022	2023	2021	2022	2023
Ozone (O_3)										
Tranquility	ppm	Maximum 1-hour concentration	California	0.09	0.088	0.074	0.073	0	0	0
	ppm	Maximum 8-hour concentration	California	0.070	0.080	0.067	0.066	6	0	0
			National	0.070	0.080	0.066	0.065	5	0	0
Nitrogen Dioxide (NO_2)										
Fresno-Drummond St.	ppm	Maximum 1-hour concentration	California	0.18	0.064	0.058	0.058	0	0	0
			National	0.100	0.065	0.058	0.058	0	0	0
	ppm	Annual concentration	California	0.030	0.011	0.012	0.010	—	—	—
			National	0.053	0.011	0.012	0.010	—	—	—
Carbon Monoxide (CO)										
Fresno-First Street	ppm	Maximum 1-hour concentration	California	20	1.9	2.1	2.2	—	—	—
			National	35	1.9	2.1	2.2	—	—	—
	ppm	Maximum 8-hour concentration	California	9.0	1.7	1.8	1.7	—	—	—
			National	9	1.7	1.8	1.7	—	—	—
Sulfur Dioxide (SO_2)										
Fresno-First Street	ppm	Maximum 1-hour concentration	National	0.075	0.008	0.003	0.005	—	—	—
	ppm	Maximum 24-hour concentration	California	0.04	0.003	0.001	0.002	—	—	—
	ppm		National	0.140	0.003	0.001	0.002	—	—	—
	ppm	Annual concentration	National	0.030	0.0004	0.0003	0.0004	—	—	—
Coarse Particulate Matter (PM_{10})[a]										
	µg/m³	Maximum 24-hour concentration	California	50	149.8	166.5	130.0	(20) —	(133) —	(120) —

Table 3. Local Ambient Air Quality Data

Monitoring Station	Unit	Averaging Time	Agency/Method	Ambient Air Quality Standard	Measured Concentration by Year			Exceedances by Year		
					2021	2022	2023	2021	2022	2023
Fresno-Drummond St.			National	150	151.8	73.4	131.1	(0) —	(0) —	(0) 0.0
	µg/m³	Annual concentration	California	20	43.8	31.2	42.7	—	—	—
Fine Particulate Matter ($PM_{2.5}$)[a]										
Tranquility	µg/m³	Maximum 24-hour concentration	National	35	65.3	33.1	26.2	(7) 7.1	(0) 0.0	(0) 0.0
	µg/m³	Annual concentration	California	12	9.0	12	9	—	—	—
			National	9	8.9	9.1	6.8	—	—	—

Sources: CARB 2025a; EPA 2025a.

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

Data taken from CARB iADAM (http://www.arb.ca.gov/adam) and EPA AirData (https://www.epa.gov/outdoor-air-quality-data) represent the highest concentrations experienced over a given year. Exceedances of national and California standards are only shown for O_3 and particulate matter. Daily exceedances for particulate matter are estimated days because PM_{10} and $PM_{2.5}$ are not monitored daily. All other criteria pollutants did not exceed national or California standards during the years shown. There is no national standard for 1-hour O_3, annual PM_{10}, or 24-hour SO_2, nor is there a California 24-hour standard for $PM_{2.5}$.

Tranquility Monitoring Station is located at 32650 West Adams Avenue, Tranquility, CA, 93668.

Fresno-Drummond Monitoring Station is located at 4706 E. Drummond St, Fresno, CA, 93727.

Fresno-First Street Monitoring Station located at 3727 N. First Street, Fresno, CA, 93726.

[a] Measurements of PM_{10} and $PM_{2.5}$ are usually collected every 6 days and every 1 to 3 days, respectively. Number of days exceeding the standards is a mathematical estimate of the number of days concentrations would have been greater than the level of the standard had each day been monitored. The numbers in parentheses are the measured number of samples that exceeded the standard

2.4 Significance Criteria and Methodology

2.4.1 Thresholds of Significance

The following criteria, as established in Appendix G of the CEQA Guidelines, are used to determine if a project could potentially have a significant adverse effect related to air quality. The significance criteria used to evaluate the project impacts to air quality is based on the recommendations provided in Appendix G of the CEQA Guidelines. For the purposes of this air quality analysis, a significant impact would occur if the project would (14 CCR 15000 et seq.):

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

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

The SJVAPCD has adopted guidelines for implementing CEQA which are applied during CEQA review of projects for which SJVAPCD is the lead agency. However, Fresno County is the CEQA lead agency for the proposed project and will make the determination as to whether or not the proposed project may have a significant effect on the environment. Fresno County's determination will take into consideration SJVAPCD's criteria but will ultimately be based upon the thresholds adopted by Fresno County.

SJVAPCD

Criteria Air Pollutants

The SJVAPCD GAMAQI has established emissions-based thresholds of significance for criteria pollutants (SJVAPCD 2015a), which are depicted in Table 4. As shown in Table 4, the SJVAPCD has established significance thresholds for construction emissions and operational permitted and non-permitted equipment and activities, and it recommends evaluating impact significance for these categories separately. These thresholds of significance are based on a calendar-year basis, although construction emissions are assessed on a rolling 12-month period.

Table 4. SJVAPCD CEQA Significance Thresholds for Criteria Pollutants

Pollutant	Construction Emissions (tons per year)	Operational Emissions (tons per year)	
		Permitted Equipment and Activities	Non-Permitted Equipment and Activities
ROG	10	10	10
NO_x	10	10	10
CO	100	100	100
SO_x	27	27	27

Table 4. SJVAPCD CEQA Significance Thresholds for Criteria Pollutants

Pollutant	Construction Emissions (tons per year)	Operational Emissions (tons per year)	
		Permitted Equipment and Activities	Non-Permitted Equipment and Activities
PM_{10}	15	15	15
$PM_{2.5}$	15	15	15

Source: SJVAPCD 2015a.

In addition to the annual emissions mass thresholds described in Table 4, the SJVAPCD has also established screening criteria to determine whether a project would result in a CO hotspot at affected roadway intersections (SJVAPCD 2015a). If neither of the following criteria is met at any of the intersections affected by the project, the project would result in no potential to create a violation of the CO standard:

- A traffic study for the project indicates that the level of service (LOS) on one or more streets or at one or more intersections in the project site will be reduced to LOS E or F.
- A traffic study indicates that the project will substantially worsen an already existing LOS F on one or more streets or at more or more intersections in the project site.

Ambient Air Quality Impacts

Appendix G of the CEQA Guidelines indicates that a project would have a significant air quality impact if it would violate any air quality standard or contribute substantially to an existing or projected air quality violation. The thresholds of significance for ambient air quality are based on the CAAQS and NAAQS, whereby a project would be considered to have a significant impact if its emissions are predicted to cause or contribute to a violation of an ambient air quality standard by exceeding any CAAQS or NAAQS (SJVAPCD 2015a). The SJVAPCD recommends that an Ambient Air Quality Assessment be performed when on-site emissions of any criteria pollutant would equal or exceed any applicable threshold of significance for criteria pollutants or 100 pounds per day of any criteria pollutant (SJVAPCD 2015a). In the Ambient Air Quality Assessment, air pollutant concentrations are determined through air quality dispersion modeling, added to the corresponding background level, and compared to the relevant CAAQS and/or NAAQS. If the air pollutant concentrations plus background levels, however, would exceed a CAAQS or NAAQS, the SJVAPCD recommends that specified significant impact levels (SILs) be applied to the modeled concentrations to assess whether a project's emissions would contribute substantially to an existing violation of the CAAQS or NAAQS (SJVAPCD 2014b).

Toxic Air Contaminants

The SJVAPCD has established thresholds of significance for combined TAC emissions from the operations of both permitted and non-permitted sources (SJVAPCD 2015a). projects that have the potential to expose the public to TACs in excess of the following thresholds would be considered to have a significant air quality impact:

- Probability of contracting cancer for the maximally exposed individual equals or exceeds 20 in 1 million people[4]

[4] The cancer risk threshold was increased from 10 to 20 in 1 million with approval of APR 1906 (Framework for Performing Health Risk Assessments) on June 30, 2015.

- Hazard Index[5] for acute and chronic non-carcinogenic TACs equals or exceeds 1 for the maximally exposed individual

Odors

As described in the GAMAQI, due to the subjective nature of odor impacts, there are no quantitative thresholds to determine if potential odors would have a significant impact (SJVAPCD 2015a). projects must be assessed for odor impacts on a case-by-case basis for the following two situations:

- Generators: projects that would potentially generate odorous emissions proposed to locate near existing sensitive receptors or other land uses where people may congregate
- Receivers: Residential or other sensitive receptor projects or other projects built for the intent of attracting people locating near existing odor sources

The SJVAPCD has identified some common types of facilities that have been known to produce substantial odors, as well as screening distances between these odor sources and receptors. These are depicted in Table 5.

Table 5. Screening Levels for Potential Odor Sources

Type of Facility	Screening Distance (Miles)
Wastewater Treatment Facility	2
Sanitary Landfill	1
Transfer Station	1
Composting Facility	1
Petroleum Facility	2
Asphalt Batch Plant	1
Chemical Manufacturing	1
Fiberglass Manufacturing	1
Painting/Coating (i.e., auto body shop)	1
Food Processing Facility	1
Feed Lot/Dairy	1
Rendering Plant	1

Source: SJVAPCD 2015d.

If the project would result in an odor source and sensitive receptors being located within these screening distances, additional analysis would be required. For projects involving new receptors locating near an existing odor source where there is currently no nearby development and for new odor sources locating near existing receptors, the SJVAPCD recommends the analysis be based on a review of odor complaints for similar facilities, with consideration also given to local meteorological conditions, particularly the intensity and direction of prevailing winds. Regarding

[5] Non-cancer adverse health impact, both for acute (short-term) and chronic (long-term) health effects, is measured against a hazard index, which is defined as the ratio of the predicted incremental exposure concentration from the project to a published reference exposure level that could cause adverse health effects as established by the Office of Environmental Health Hazard Assessment (OEHHA). The ratio (referred to as the hazard quotient) of each noncarcinogenic substance that affects a certain organ system is added together to produce an overall hazard index for that organ system.

the complaint record of the odor source facility (or similar facility), the facility would be considered to result in significant odors if there has been:

- More than one confirmed complaint per year averaged over a 3-year period.
- Three unconfirmed complaints[6] per year averaged over a 3-year period.

Cumulative

A project's emissions may be individually limited but cumulatively considerable when taken in combination with past, present, and future development within the SJVAB. If a project would result in a significant impact based on the SJVAPCD annual thresholds of significance for criteria pollutants, then the project would also be considered cumulatively significant. However, if the project emissions are below the annual significance thresholds for criteria pollutants, the impact may still be cumulatively significant. For instance, if the project results in criteria pollutant concentrations that exceed any of the federal health-based ambient air concentration standards or causes a worsening of areas already exceeding those standards, the project's impacts would be considered individually significant, as well as cumulatively significant. In addition, the combined emissions of the project and cumulative development located within the same area could potentially cause or worsen an exceedance of the concentration standards, whereby the project would have a cumulatively significant impact (SJVAPCD 2015a).

In regard to TACs, since impacts are localized and the SJVAPCD thresholds of significance for TACs have been established at an extremely conservative level, risks that equal or exceed the individual thresholds of significance are also considered cumulatively significant (SJVAPCD 2015a). No other cumulative risk thresholds would apply.

The SJVAPCD has not established cumulative significance thresholds regarding odor impacts.

2.4.2 Approach and Methodology

2.4.2.1 Construction Emissions

Emissions from the construction phase of the project were estimated using the CalEEMod Version 2022.1.1.29. Construction scenario assumptions, including phasing, equipment mix, and vehicle trips, were based on information provided by the project applicant and CalEEMod default values when project specifics were not known.

For purposes of estimating project emissions, and based on information provided by the project applicant, it is assumed that construction of the project would commence in December 2026[7] and would last approximately 18 months, ending in May 2028. The analysis contained herein is based on the following assumptions (duration of phases is approximate):

- Move-On (Laydown, construction trailers, and parking area) (2 weeks)
- Substation Construction (12 months)

6 An unconfirmed complaint means that either the odor/air contaminant release could not be detected or the source/facility cannot be determined (SJVAPCD 2015a).

7 The analysis assumes a construction start date of December 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 and GHG 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.

- Gen-tie Line Installation (12 months)
- Site Preparation and Grading (4 months)
- Underground Work (Trenching) (5 months)
- System Installation (8 months)
- Battery/Container Installation (8 months)
- PG&E Tranquility Switching Station Upgrades (4 months)
- Cleanup/Testing/Restoration (4 months)
- Decommissioning (9 months)

The Solar Facility and BESS would be balanced onsite. The anticipated engine tier per equipment type was provided by the project applicant. The CalEEMod default fleet mix was assumed for the PG&E Tranquility Substation Upgrades. The construction equipment mix and vehicle trips used for estimating the project-generated construction emissions are shown in Table 6.

Table 6. Construction Scenario Assumptions

Construction Phase	One-Way Vehicle Trips			Equipment		
	Average Daily Worker Trips	Average Daily Vendor Truck Trips	Total Haul Truck Trips	Equipment Type	Quantity	Usage Hours
Move-on (Laydown, construction trailers, and parking area)	20	10	20	Graders	2	6
				Rubber Tired Dozers	1	6
				Scrapers	2	6
				Rubber Tired Loaders	2	6
				Tractors/Loaders/ Backhoes	2	6
				Skid Steer Loaders	3	6
				Generator Sets	1	24
Substation Construction	20	2	40	Generator Sets	1	12
				Other General Industrial Equipment	1	4
				Tractors/Loaders/ Backhoes	1	4
				Cranes	1	5
				Rough Terrain Forklifts	2	4
				Aerial Lifts	1	4
				Graders	1	6
				Rubber Tired Dozers	1	3
				Scrapers	1	4
				Rubber Tired Loaders	1	3

Table 6. Construction Scenario Assumptions

Construction Phase	One-Way Vehicle Trips			Equipment		
	Average Daily Worker Trips	Average Daily Vendor Truck Trips	Total Haul Truck Trips	Equipment Type	Quantity	Usage Hours
				Excavators	1	4
				Tractors/Loaders/ Backhoes	1	6
Gen-Tie Line Installation	20	2	40	Tractors/Loaders/ Backhoes	1	4
				Cranes	1	4
				Crawler Tractors	1	4
				Bore/Drill Rigs	1	2
				Rough Terrain Forklifts	1	4
				Other Construction Equipment	1	4
				Generator Sets	1	4
Site Preparation and Grading	150	10	0	Pumps	2	8
				Graders	2	8
				Rubber Tired Dozers	1	3
				Scrapers	3	6
				Rubber Tired Loaders	3	6
				Tractors/Loaders/ Backhoes	2	6
				Tractors/Loaders/ Backhoes	2	6
				Rollers	1	3
				Skid Steer Loaders	2	6
				Generator Sets	1	24
				Generator Sets	1	24
Underground Work (Trenching)	80	10	0	Tractors/Loaders/ Backhoes	1	6
				Trenchers	1	6
				Plate Compactors	1	4
				Excavators	1	4
				Trenchers	4	6
				Crushing/Processing Equipment	1	6
				Tractors/Loaders/ Backhoes	2	4

Table 6. Construction Scenario Assumptions

Construction Phase	One-Way Vehicle Trips			Equipment		
	Average Daily Worker Trips	Average Daily Vendor Truck Trips	Total Haul Truck Trips	Equipment Type	Quantity	Usage Hours
				Rollers	2	2
System Installation	800	10	400	Rough Terrain Forklifts	5	4
				Aerial Lifts	3	4
				Skid Steer Loaders	10	4
				Air Compressors	1	6
				Other Construction Equipment	15	6
				Generator Sets	1	24
				Generator Sets	1	24
Battery/ Container Installation	50	14	528	Rubber Tired Loaders	1	8
				Excavators	1	8
				Rough Terrain Forklifts	2	8
				Cranes	1	8
				Graders	1	8
				Skid Steer Loaders	2	8
				Welders	1	8
				Generator Sets	1	8
				Bore/Drill Rigs	1	8
PG&E Tranquility Switching Station Upgrades	20	2	40	Generator Sets	1	12
				Other General Industrial Equipment	1	4
				Tractors/Loaders/ Backhoes	2	5
				Cranes	1	5
				Rough Terrain Forklifts	2	4
				Aerial Lifts	1	4
				Graders	1	6
				Rubber Tired Dozers	1	3
				Scrapers	1	4
				Rubber Tired Loaders	1	3
				Excavators	1	4
Cleanup/ Testing/	50	6	0	Tractors/Loaders/ Backhoes	1	4

Table 6. Construction Scenario Assumptions

Construction Phase	One-Way Vehicle Trips			Equipment		
	Average Daily Worker Trips	Average Daily Vendor Truck Trips	Total Haul Truck Trips	Equipment Type	Quantity	Usage Hours
Restoration				Graders	1	6
				Scrapers	2	6
Decommissioning	40	10	1,232	Tractors/Loaders/ Backhoes	1	8

Notes: See Appendix A for details.

The project would implement dust control strategies in accordance with SJVAPCD Rule 8021. To reflect implementation of proposed dust control strategies, the following was assumed in CalEEMod:

- Water exposed area three times per day (61% reduction in PM_{10} and $PM_{2.5}$).
- Limit onsite unpaved road travel to 25 miles per hour.

The project would implement the following project design features (PDFs) during construction:

PDF-AQ-1 During the demolition, construction, and decommissioning phases of the Project, the Applicant proposes to implement several measures intended to reduce worker exposure to the Coccidioides immitis (C. immitis) fungus that causes Valley Fever. Prior to ground disturbing activities, a Valley Fever Management Plan will be provided to the County and shall include a program to limit the potential for exposure to C. immitis from construction activities and to identify appropriate worker training, dust management and safety procedures that shall be implemented, as needed, to minimize personnel and public exposure to C. immitis. In addition to awareness and recognition training, these measures include performing job hazard assessments (JHAs) for all job classifications employed on site. These JHAs will identify the potential for exposure as well as the appropriate precautions and controls to minimize exposure.

PDF-AQ-2 During the demolition, construction, and decommissioning phases of the Project, the Applicant proposes to utilize Tier 3 equipment or better for excavators, graders, and tractors/loaders/backhoes and Tier 4 Final equipment or better for aerial lifts, air compressors, bore/drill rigs, cement and mortar mixers, concrete/industrial saws, cranes, forklifts, generator sets, pavers, rollers, rubber-tired dozers, rubber-tired loaders, skid steer loaders, trenchers, and welders.

2.4.2.1.1 Ambient Air Quality Assessment

As recommended by the *Guidance for Assessing and Mitigating Air Quality Impacts* (SJVAPCD 2015b), an ambient air quality impacts assessment should be performed if any pollutants exceed 100 pounds per day during construction or operation. As discussed in Section 2.5.2, the project would exceed 100 pounds per day for NO_x and CO.

For the initial assessment (Level 1) of the ambient air quality impact analysis, the maximum background concentration for the project site for each pollutant and averaging period combination was added to the corresponding maximum ground level concentration (GLC) from project-related construction (Step 1). The sum of these values was then compared to the corresponding ambient air quality standard. If the incremental increase in concentration from project-related sources did not cause an exceedance of an ambient air quality standard, then the analysis was complete for that source/receptor/pollutant combination. If the incremental increase in concentration from project-related sources caused an exceedance of an ambient air quality standard, then the analysis proceeded to Step 2. Step 2 was similar to Step 1 with one major difference. For this second step, the maximum GLC of each pollutant and averaging period combination were compared to its corresponding Significant Impact Level (SIL). The SIL is used to evaluate whether the project's construction emissions would *contribute* to a violation of an ambient air quality standard, where the background level is close to or exceeds an ambient air quality standard. If the maximum GLC did not exceed the corresponding SIL, then the analysis was complete for that source/receptor/pollutant combination, and no further analysis was required.

For the Level 1 approach, in accordance with SJVAPCD APR-1925, all required criteria pollutants are modeled together, with a normalized emission rate (1 gram per second) for each source. The line of volume sources was partitioned evenly based on the 1 gram per second emission rate. For example, if there is one line volume source with 60 individual volume sources and one line volume sources with 40 individual volume sources, the emission rate in AERMOD would be 0.6 for the line volume source with 60 volume sources and 0.4 for the line volume source with 40 volume sources. This would provide that all individual volume sources would emit 1/100 gram per second and when added together make 1 gram per second. The dispersion modeling was performed using the American Meteorological Society/EPA Regulatory Model (AERMOD), which is the model SJVAPCD 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 2015). Principal parameters of this Level 1 modeling are presented in Table 7. The AERMOD setup with the line volume sources and receptors are depicted in Figures 3 and 4.

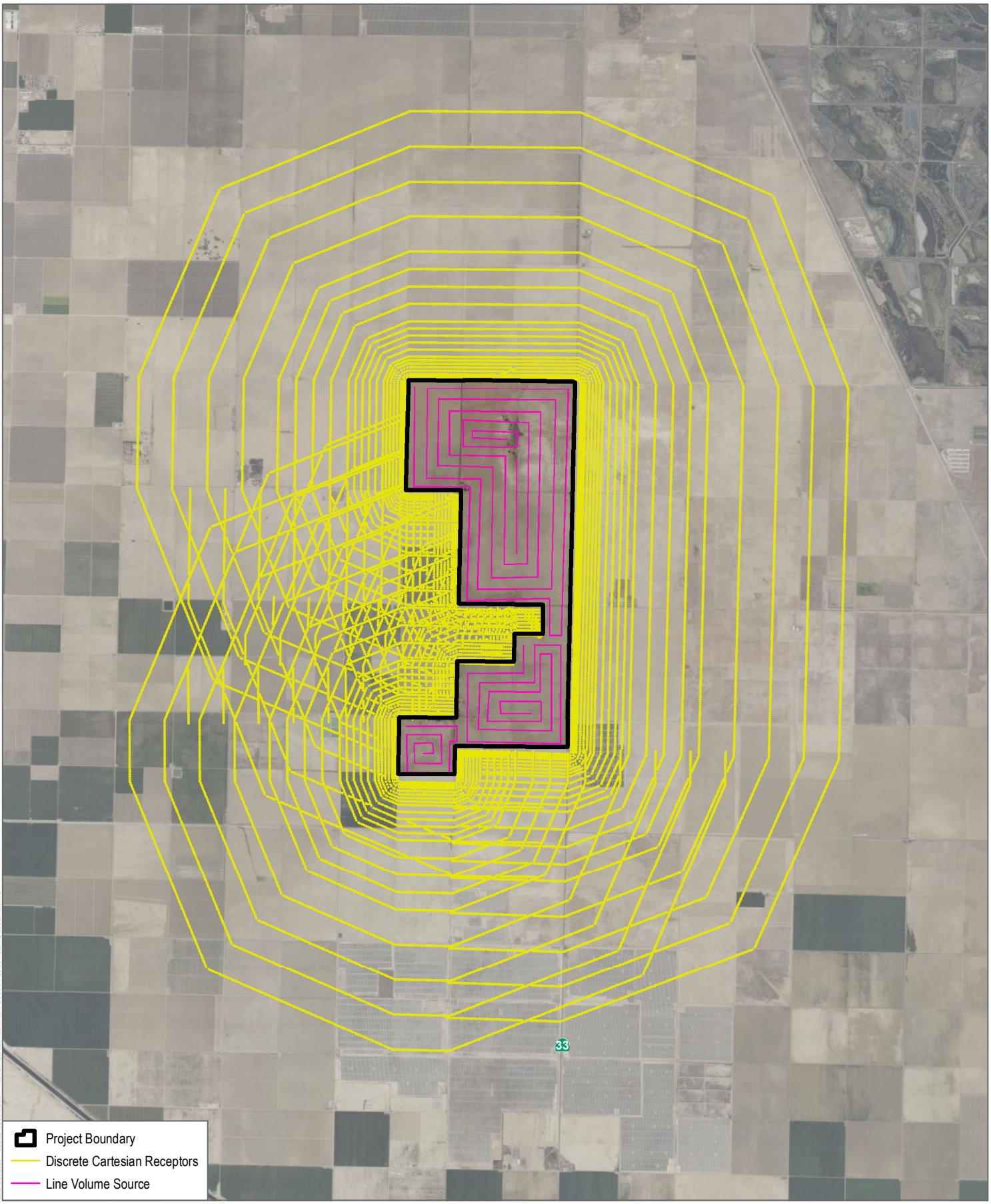
Table 7. AERMOD Principal Parameters – Ambient Air Quality Assessment

Parameter	Details
Meteorological Data	The latest 5-year meteorological data (2007–2011) for the Wasco Station (Station ID 99010) from SJVAPCD were downloaded and then 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. However, based on the SJVAPCD guidelines, the rural dispersion option was selected due to the predominant land use surrounding the project.
Terrain Characteristics	The terrain in the vicinity of the modeled project site is generally flat. The elevation of the modeled site is about 212 feet 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 United States Geological Survey's National Elevation Dataset format with a 30-meter resolution.
Emission Sources and Release Parameters	Air dispersion modeling of pollutants from construction equipment was conducted using emissions estimated using the CalEEMod, assuming emissions would occur 8 hours per day, 5 days per week. The project area was modeled as a series of line-

Table 7. AERMOD Principal Parameters – Ambient Air Quality Assessment

Parameter	Details
	volume sources. Onsite emissions of vehicles were also included, assuming a 0.25-mile travel distance.
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	A telescoping grid of receptors was placed around the project site boundary in the following spacing: 25 meter spacing on the facility boundary; 25 meter spacing from the facility boundary to 100 meters; 50 meter spacing from 100 meters to 250 meters; 100 meter spacing from 250 meters to 500 meters; 250 meter spacing from 500 meters to 1,000 meters; and 500 meter spacing from 1,000 meters to 2,000 meters.

Note: See Appendix B.



SOURCE: Fresno County; Bing Maps

DUDEK

0 0.5 1 Miles

FIGURE 3

Air Quality Impact Assessment Modeling

Heartland Solar Project

2.4.2.1.2 Health Risk Assessment

A construction health risk assessment (HRA) was performed to evaluate potential health risk associated with construction of the Project. The following discussion summarizes the dispersion modeling and HRA methodology; supporting construction HRA documentation, including detailed assumptions, is presented in Appendix C.

For risk assessment purposes, PM_{10} in diesel exhaust is considered DPM, originating mainly from off-road equipment operating at a defined location for a given length of time at a given distance from sensitive receptors. Less-intensive, more-dispersed emissions result from on road vehicle exhaust (e.g., heavy-duty diesel trucks). For the construction HRA, the CalEEMod scenario for the Project was adjusted to reduce diesel truck one-way trip distances to 0.25-miles to estimate emissions from truck pass-by at proximate receptors (SJVAPCD 2019).

The air dispersion modeling methodology was based on generally accepted modeling practices of SJVAPCD (SJVAPCD 2022). Air dispersion modeling was performed using the EPA's American Meteorological Society/Environmental Protection Agency Regulatory Model (AERMOD) Version 24142 modeling system (computer software) with the Lakes Environmental Software implementation/user interface, AERMOD View Version 13.0.0. The HRA followed the Office of Environmental Health Hazard Assessment (OEHHA) 2015 guidelines (OEHHA 2015) and SJVAPCD guidance to calculate the health risk impacts at all proximate receptors as further discussed below. The dispersion modeling included the use of standard regulatory default options. AERMOD parameters were selected consistent with the SJVAPCD and EPA guidance and identified as representative of the project site activities. Principal parameters of this modeling are presented in Table 8, American Meteorological Society/Environmental Protection Agency Regulatory Model Principal Parameters – Construction HRA.

Table 8. American Meteorological Society/Environmental Protection Agency Regulatory Model Principal Parameters – Construction HRA

Parameter	Details
Meteorological Data	The latest 5-year meteorological data (2007–2011) for the Wasco Station (Station ID 99010) from SJVAPCD were downloaded and then input to AERMOD. For cancer or chronic noncancer risk assessments, the average cancer risk of all years modeled was used.
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. However, based on the SJVAPCD guidelines, the rural dispersion option was selected due to the predominant land use surrounding the project.
Terrain Characteristics	The terrain in the vicinity of the modeled project site is generally flat. The elevation of the modeled site is about 212 feet 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 United States Geological Survey's National Elevation Dataset format with a 30-meter resolution.
Emission Sources and Release Parameters	Air dispersion modeling of PM from construction equipment was conducted using emissions estimated using the CalEEMod and a spreadsheet based model, assuming emissions would occur 8 hours per day, 5 days per week. The project area was modeled as a series of line-volume sources. Onsite emissions of vehicles were also included, assuming a 0.25-mile travel distance.

Table 8. American Meteorological Society/Environmental Protection Agency Regulatory Model Principal Parameters – Construction HRA

Parameter	Details
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 Solar and BESS Facility.

Note: See Appendix C.

AERMOD was run with all sources emitting unit emissions (1 gram per second) to obtain the necessary input values for HARP2. The line of volume sources was partitioned evenly based on the 1 gram per second emission rate. The ground-level concentration plot files were then used to estimate the long-term cancer health risk to an individual, and the noncancerous chronic health indices. There is no reference exposure level (REL) for acute health impacts from DPM, and, thus, acute risk was not evaluated.

Cancer risk is defined as the increase in probability (chance) of an individual developing cancer due to exposure to a carcinogenic compound, typically expressed as the increased chances in one million. Maximum Individual Cancer Risk is the estimated probability of a maximally exposed individual potentially contracting cancer as a result of exposure to TACs over a period of 30 years for residential receptor locations. For the construction HRA, the TAC exposure period was assumed to be from third trimester of pregnancy for 18 months for all receptor locations (i.e., the assumed duration of Project construction. The exposure pathway for DPM is inhalation only.

The SJVAPCD has also established noncarcinogenic risk parameters for use in HRAs since some TACs increase noncancerous health risk due to long-term (chronic) exposures and some TACs increase noncancerous health risk due to short-term (acute) exposures. Chronic exposure is evaluated in the construction HRA. Noncarcinogenic risks are quantified by calculating a hazard index, expressed as the ratio between the ambient pollutant concentration and its toxicity or REL, which is a concentration at or below which health effects are not likely to occur. The chronic hazard index is the sum of the individual substance chronic hazard indices for all TACs affecting the same target organ system. A hazard index less of than one (1.0) means that adverse health effects are not expected.

2.4.2.2 Operational Emissions

Emissions from the operational phase of the project were estimated using CalEEMod Version 2022.1.1.29. Operational year 2028 was assumed consistent with completion of project construction.

Area Sources

CalEEMod was used to estimate operational emissions from area sources, including emissions from consumer product use, architectural coatings, and landscape maintenance equipment. Emissions associated with natural gas usage in space heating and water heating are calculated in the building energy use module of CalEEMod, as described in the following text.

Consumer products are chemically formulated products used by household and institutional consumers, including detergents; cleaning compounds; polishes; floor finishes; cosmetics; personal care products; home, lawn, and garden products; disinfectants; sanitizers; aerosol paints; and automotive specialty products. Other paint products,

furniture coatings, or architectural coatings are not considered consumer products (CAPCOA 2025). Consumer product ROG emissions are estimated in CalEEMod based on the floor area of nonresidential buildings and on the default factor of pounds of ROG per building square foot per day. For parking lot land uses, CalEEMod estimates ROG emissions associated with use of parking surface degreasers based on a square footage of parking surface area and pounds of ROG per square foot per day.

Energy Sources

The operations and maintenance building is assumed to be all-electric. All electricity needs for the operations and maintenance building will come from the Solar Facility. There will be no natural gas use onsite.

Mobile Sources

The project would generate air quality emissions from mobile sources (vehicular traffic) as a result of the employees of the project, maintenance personnel, visitors, deliveries, and shipments. The Solar Facility is anticipated to have up to 16 permanent employees in the operations and maintenance building. CalEEMod default data, trip length, trip modes, fleet mix, and emissions factors were used for the model inputs for the operations and maintenance building. CalEEMod default vehicle emission factors and vehicle fleet mix for 2028, as based on the CARB EMFAC2021 model, were used to estimate emissions associated with vehicular sources.

2.5 Impact Analysis

2.5.1 Would the Project Conflict with or Obstruct Implementation of the Applicable Air Quality Plan?

A project is non-conforming with an air quality plan if it conflicts with or delays implementation of any applicable attainment or maintenance plan. A project is conforming if it complies with all applicable SJVAPCD rules and regulations, complies with all proposed control measures that are not yet adopted from the applicable plan(s), and is consistent with the growth forecasts in the applicable plan(s) (or is directly included in the applicable plan). Zoning changes, specific plans, general plan amendments and similar land use plan changes which do not increase dwelling unit density, do not increase vehicle trips, and do not increase vehicle miles traveled are also deemed to comply with the applicable air quality plan (SJVAPCD 2015).

The project would comply with applicable SJVAPCD rules and regulations, such as Regulation VIII (Fugitive PM10 Prohibitions) and IX (Mobile and Indirect Sources) which are discussed in detail in Section 2.2.3.1. The project would not conflict with existing land uses. The Fresno County 2019-2050 Growth Projections forecast shows that there are 69,700 jobs in 2020 and an estimated 78,620 jobs in 2030, for an annual growth rate of 892 jobs (FCOG 2020). The project is estimated to employ up to 16 full-time personnel. As such, the project would not exceed the growth projections in the county.

Unmitigated NOx emissions during construction would not exceed the SJVAPCD significance threshold. During the longer-term operational phase, the project would have routine inspection and maintenance activities that would result in a net increase in emissions although, as discussed in Section 2.5.2, the increase in emissions would not exceed any significance threshold or violate any SJVAPCD rule or regulation.

In summary because the project would offset NOx emissions during construction in compliance with SJVAPCD Rule 9510, the project would result in a **less than significant** impact during construction.

2.5.2 Would the Project Result in a Cumulatively Considerable Net Increase of any Criteria Pollutant for Which the project Region is Non-Attainment Under an Applicable Federal or State Ambient Air Quality Standard?

Past, present, and future development projects may contribute to adverse air quality impacts in the SJVAB on a cumulative basis. By its nature, air pollution is largely a cumulative impact. The nonattainment status of regional pollutants is a result of past and present development, and SJVAPCD develops and implements plans for future attainment of ambient air quality standards. Based on these considerations, project-level thresholds of significance for criteria pollutants are used in the determination of whether a project's individual emissions would have a cumulatively considerable contribution on air quality. If a project's emissions would exceed the applied significance thresholds, it would have a cumulatively considerable contribution. Conversely, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant.

Construction and operation of the project would result in emissions of criteria air pollutants, which may result in a cumulatively considerable net increase in emissions of criteria air pollutants for which the SJVAB is designated as nonattainment under the NAAQS or CAAQS. As discussed in Section 2.3.1, the SJVAB has been designated as a nonattainment area for O_3, PM_{10}, and $PM_{2.5}$ under national and/or California standards. The following discussion quantitatively evaluates potential short-term construction and long-term operational impacts that would result from implementation of the project.

Construction Emissions

Construction of the project would result in the temporary addition of pollutants to the local airshed caused by on-site sources (i.e., off-road construction equipment, soil disturbance, and ROG off-gassing) and off-site sources (i.e., vendor trucks and worker vehicle trips). Construction emissions can vary substantially from day to day, depending on the level of activity, the specific type of operation, and, for dust, the prevailing weather conditions. Therefore, such emission levels can only be approximately estimated with a corresponding uncertainty in precise ambient air quality impacts.

As discussed in Section 2.4.2.1, Construction Emissions, criteria air pollutant emissions associated with temporary construction activity were quantified using CalEEMod. Construction emissions were calculated for the estimated worst-case day over the construction period associated with each phase and reported as the maximum daily emissions estimated during construction (2026-2028). Construction schedule assumptions, including phase type, duration, and sequencing, were based on information provided by the project applicant and are intended to represent a reasonable scenario based on the best information available. Default values provided in CalEEMod were used where detailed project information was not available.

Implementation of the project would generate air pollutant emissions from entrained dust, off-road equipment, vehicle emissions, architectural coatings, and asphalt pavement application. Entrained dust results from the exposure of earth surfaces to wind from the direct disturbance and movement of soil, resulting in PM_{10} and $PM_{2.5}$ emissions. The project

would implement various dust control strategies and would be required to comply with SJVAPCD Regulation VIII to control dust emissions generated during the grading activities. Proposed construction practices that would be employed to reduce fugitive dust emissions include watering of the active sites and unpaved roads three times per day depending on weather conditions. Internal combustion engines used by construction equipment, vendor trucks (i.e., delivery trucks), and worker vehicles would result in emissions of ROGs, NO_x, CO, PM_{10}, and $PM_{2.5}$. Pursuant to Regulation VIII, Rule 8021, Section 6.3, the project would be required to develop, prepare, submit, obtain approval of, and implement a dust control plan, which would reduce fugitive dust impacts to less than significant for project construction.

Table 9 presents the annual construction emissions generated during construction of the project. Details of the emission calculations are provided in Appendix A.

Table 9. Estimated Construction Criteria Air Pollutant Emissions – Unmitigated

Year	ROG	NOx	CO	SOx	PM10	PM2.5
	Annual Emissions (Tons)					
2026	0.02	0.27	0.72	<0.01	0.09	0.03
2027	0.44	3.97	16.00	0.02	2.49	0.60
2028	0.38	3.35	12.36	0.01	2.26	0.56
2050	0.01	0.26	0.46	<0.01	0.39	0.07
Maximum	**0.44**	**3.97**	**16.00**	**0.02**	**2.49**	**0.60**
SJVAPCD Threshold	*10*	*10*	*100*	*27*	*15*	*15*
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

Notes: ROG = reactive organic gas; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; SJVAPCD = San Joaquin Valley Air Pollution Control District; <0.01 = reported value less than 0.005.
See Appendix A for complete results.
These emissions reflect CalEEMod "mitigated" output, which accounts for compliance with SJVAPCD's Rule 8021 fugitive dust control strategies, including watering of the project site and unpaved roads twice times per day.
See Appendix A for complete results.

As shown in Table 9, construction emissions would not exceed the SJVAPCD significance thresholds for ROG, NO_x, CO, SO_x, PM_{10}, or $PM_{2.5}$; thus, impacts would be **less than significant**. The maximum daily emissions during construction are shown in Table 10.

Table 10. Maximum Daily Construction Criteria Air Pollutant Emissions – Unmitigated

Year	ROG	NOx	CO	SOx	PM10	PM2.5
	Pounds per day					
2026	2.10	24.64	79.76	0.10	10.33	2.80
2027	7.47	49.60	285.66	0.19	43.21	10.13
2028	8.29	79.29	285.28	0.26	49.29	12.13
2050	0.15	2.65	5.72	0.02	4.02	0.77
Maximum Daily Emissions	**8.29**	**79.29**	**285.66**	**0.26**	**49.29**	**12.13**
SJVAPCD Threshold	*100*	*100*	*100*	*100*	*100*	*100*
Threshold Exceeded?	**No**	**No**	**Yes**	**No**	**No**	**No**

Notes: ROG = reactive organic gas; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; SJVAPCD = San Joaquin Valley Air Pollution Control District; <0.01 = reported value less than 0.005.
See Appendix A for complete results.
These emissions reflect CalEEMod "mitigated" output, which accounts for compliance with SJVAPCD's Rule 8021 fugitive dust control strategies, including watering of the project site and unpaved roads twice times per day, and restricting vehicle speed on unpaved roads to 15 miles per hour.
See Appendix A for complete results.

As shown in Table 10, the project would exceed the 100 pound per day screening threshold for CO. As such, an ambient air quality assessment is required and provided below.

Construction Ambient Air Quality Impact Assessment

Although the project would not exceed the annual significance threshold established by the SJVAPCD for ROG, SOx, PM_{10}, or $PM_{2.5}$, the project would emit more than 100 pounds of NOx and CO per day during construction. As recommended by the *Guidance for Assessing and Mitigating Air Quality Impacts* (SJVAPCD 2015b), an ambient air quality impacts assessment should be performed if any pollutants exceed 100 pounds per day during construction or operation. Maximum daily emissions were used as the basis for determining the project's potential impact on ambient air quality. Summary tables of annual and daily emissions associated with construction are included in Appendix A.

For the initial assessment (Step 1) of the ambient air quality impact analysis, the maximum background concentration for the project site for each pollutant and averaging period combination was added to the corresponding maximum ground level concentration (GLC) from project-related construction. The sum of these values was then compared to the corresponding ambient air quality standard. If the incremental increase in concentration from project-related sources did not cause an exceedance of an ambient air quality standard, then the analysis was complete for that source/receptor/pollutant combination. If the incremental increase in concentration from project-related sources caused an exceedance of an ambient air quality standard, then the analysis proceeded to Step 2. Step 2 was similar to Step 1 with one major difference. For this second step, the maximum GLC of each pollutant and averaging period combination were compared to its corresponding Significant Impact Level (SIL). The SIL is used to evaluate whether the project's construction emissions would *contribute* to a violation of an ambient air quality standard, where the background level is close to or exceeds an ambient air quality standard. If the maximum GLC did not exceed the corresponding SIL, then the analysis was complete for that source/receptor/pollutant combination, and no further analysis was required. The AAQA was performed in accordance with SJVAPCD APR 1925, Policy for District Rule 2201 AAQA Modeling (SJVAPCD 2024). Table 11 presents a summary of the AAQA undertaken to determine whether construction activities associated with the project would cause or contribute to ambient air quality impacts.

Table 11. Construction Level 1 AAQA - Unmitigated

Impact Parameter	Applicable Standard	Project Area Maximum Background Concentration (Years 2019-2021)		Project Contribution (ug/m3)	Cumulative Concentration (ug/m3)	AAQS Threshold (ug/m3)	Step 1 Significance	SIL (ug/m3)	Step 2 Significance
		ppmv	ug/m³						
1-hour CO	State	2.2	2,520	74.31	2,595	22,900	PASS	2000	Step 1
	Federal	2.2	2,520	74.31	2,595	40,100	PASS	2000	Step 1
8-hour CO	State	1.8	2,062	48.42	2,110	10,300	PASS	500	Step 1
	Federal	1.8	2,062	48.42	2,110	10,300	PASS	500	Step 1
1-hour NO_2	State	0.065	122	24.58	147	339	PASS	7.5	Step 1
	Federal	0.065	122	24.58	147	188	PASS	7.5	Step 1
Annual NO_2	State	0.012	23	2.70	25	57	PASS	1	Step 1
	Federal	0.012	23	2.70	25	100	PASS	1	Step 1
1-hour SO_2	State	0.008	21	0.11	21	655	PASS	7.5	Step 1
	Federal	0.008	21	0.11	21	196	PASS	7.8	Step 1
3-hour SO_2	Federal	0.003	7	0.08	7	1,300	Pass	25	Step 1
24-Hour SO_2	State	0.003	8	0.05	8	105	PASS	5	Step 1
	Federal	0.003	8	0.05	8	367	PASS	5	Step 1
Annual SO_2	Federal	0.000	1	0.01	1	79	PASS	1	Step 1
24-hour PM_{10} - Exhaust	State	--	167	0.34	167	50	Step 2	5	PASS
	Federal	--	167	0.34	167	150	Step 2	5	PASS
24-hour PM_{10} - Fugitive	State	--	167	1.11	168	50	Step 2	10.4	PASS
	Federal	--	167	1.11	168	150	Step 2	10.4	PASS
Annual PM_{10} - Exhaust	State	--	44	0.07	44	20	Step 2	1	PASS
Annual PM_{10} - Fugitive	State	--	44	0.23	44	20	Step 2	2.08	PASS
24-hour $PM_{2.5}$ - Exhaust	Federal	--	65	0.31	66	35	Step 2	1.2	PASS
24-hour $PM_{2.5}$ - Fugitive	Federal	--	65	0.24	66	35	Step 2	2.5	PASS
Annual $PM_{2.5}$ - Exhaust	State	--	12.0	0.07	12.07	12	Step 2	0.13	PASS
	Federal	--	12.0	0.07	12.07	9	Step 2	0.13	PASS
Annual $PM_{2.5}$ - Fugitive	State	--	12.0	0.05	12.05	12	Step 2	0.63	PASS
	Federal	--	12.0	0.05	12.05	9	Step 2	0.63	PASS

Source: See Appendix B.

As shown in Table 11, the unmitigated construction emissions would not exceed the AAQS or applicable SILs. As such, the project would result in a less than significant impact and would not exceed applicable AAQS.

Operational Emissions

Operation of the project would generate ROG, NO_x, CO, SO_x, PM_{10}, and $PM_{2.5}$ emissions from mobile sources, including vehicle trips from passenger vehicles and heavy-duty trucks; and area sources, including the use of consumer products. Table 12 presents the annual area and mobile emissions associated with operation (year 2028) of the project. Details of the emission calculations are provided in Appendix A.

Table 12. Estimated Annual Operational Criteria Air Pollutant Emissions – Unmitigated

Emission Source	ROG	NOx	CO	SOx	PM10	PM2.5
	Tons Per Year					
Area	0.01	-	-	-	-	-
Mobile	0.01	0.01	0.15	<0.01	0.05	0.01
Total	**0.02**	**0.01**	**0.15**	**<0.01**	**0.05**	**0.01**
SJVAPCD Threshold	*10*	*10*	*100*	*27*	*15*	*15*
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

Notes: ROG = reactive organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; SJVAPCD = San Joaquin Valley Air Pollution Control District; <0.01 = reported value less than 0.005; - = no emissions.
See Appendix A for complete results.
Totals may not sum due to rounding.

As shown in Table 12, the combined annual area and mobile source emissions would not exceed the SJVAPCD's operational thresholds for ROG, NOx, CO, SO_x, PM_{10}, and $PM_{2.5}$. As such, impacts would be **less than significant**.

The SJVAPCD recommends that an Ambient Air Quality Assessment be performed when on-site emissions of any criteria pollutant would equal or exceed any applicable threshold of significance for criteria pollutants or 100 pounds per day of any criteria pollutant (SJVAPCD 2015a). The results of the screening analysis are presented in Table 13.

Table 13. Estimated Maximum Daily Operational Criteria Air Pollutant Emissions – Unmitigated

Source	ROG	NOx	CO	SOx	PM10	PM2.5
	Pounds Per Day					
Area	0.07	-	-	-	-	-
Mobile	0.09	0.02	0.32	<0.01	0.01	<0.01
Total	**0.16**	**0.02**	**0.32**	**<0.01**	**0.01**	**<0.01**
SJVAPCD Threshold	*100*	*100*	*100*	*100*	*100*	*100*
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

Notes: ROG = reactive organic gas; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; SJVAPCD = San Joaquin Valley Air Pollution Control District; <0.01 = reported value less than 0.005; - = no emissions.
See Appendix A for complete results.
The values shown are the maximum summer or winter daily emissions results from CalEEMod. These emissions reflect CalEEMod "mitigated" output, which accounts for compliance with SJVAPCD's Rule 8021 including watering of the project site and unpaved roads three times per day, and restricting vehicle speed on unpaved roads to 15 miles per hour.

As indicated in Table 13, the project would not exceed 100 pounds per day on site for ROG, NO_x, CO, SO_x, PM_{10}, or $PM_{2.5}$ during operation; therefore, the project would not require an ambient air quality assessment during operation.

Health Effects

Project construction and operation would not exceed SJVAPCD thresholds for ROG, NOx, CO, SO_x, $PM_{10,}$ or $PM_{2.5}$. ROGs and NO_x are precursors to O_3, for which the SJVAB is designated as nonattainment with respect to the NAAQS and CAAQS. The health effects associated with O_3 are generally associated with reduced lung function. The contribution of ROGs and NO_x to regional ambient O_3 concentrations is the result of complex photochemistry. The increases in O_3 concentrations in the SJVAB due to O_3 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 ROG emissions would occur because exceedances of the O_3 CAAQS/NAAQS 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 due to the lack of quantitative methods to assess this impact. Since construction and operation of the project would not exceed the SJVAPCD threshold for ROG or NO_x, implementation of the project would not contribute to regional O_3 concentrations and the associated health effects.

Operation of the project would not contribute to exceedances of the NAAQS and CAAQS for NO_2. Health effects that result from NO_2 and NO_x include respiratory irritation, which could be experienced by nearby receptors during the periods of heaviest use of off-road construction equipment. However, project construction would be relatively short term, and off-road construction equipment would be operating at various portions of the site and would not be concentrated in one portion of the site at any one time. In addition, existing NO_2 concentrations in the area are well below the NAAQS and CAAQS standards. Due to the project not exceeding thresholds of NO_x, the project would not result in potential health effects associated with NO_2 and NO_x.

CO tends to be a localized impact associated with congested intersections. The associated potential for CO hotspots was discussed previously and was determined to be a less-than-significant impact. Furthermore, the existing CO concentrations in the area are well below the NAAQS and CAAQS standards. Thus, the project's CO emissions would not contribute to significant health effects associated with this pollutant.

Construction and operation of the project would also not exceed thresholds for PM_{10} or $PM_{2.5}$ and would not contribute to exceedances of the NAAQS and CAAQS for particulate matter or obstruct the SJVAB from coming into attainment for these pollutants. The project would also not result in substantial DPM emissions during construction and operation, and therefore, would not result in significant health effects related to DPM exposure. Additionally, the project would implement dust control strategies and be required to comply with SJVAPCD Regulation VIII, which limits the amount of fugitive dust generated during construction. Pursuant to Regulation VIII, Rule 8021, Section 6.3, the project would be required to develop, prepare, submit, obtain approval of, and implement a dust control plan, which would reduce fugitive dust impacts. Due to the minimal contribution of particulate matter during construction and operation, the project is not anticipated to result in health effects associated with PM_{10} or $PM_{2.5}$.

In summary, because construction and operation of the project would not result in exceedances of the SJVAPCD significance thresholds, the potential health effects associated with criteria air pollutants, are considered **less than significant**. Notably, there are numerous scientific and technological complexities associated with correlating criteria

air pollutant emissions from an individual project to specific health effects or potential additional nonattainment days, and there are currently no modeling tools that could provide reliable and meaningful additional information regarding health effects from criteria air pollutants generated by individual projects.

2.5.3 Would the Project Expose Sensitive Receptors to Substantial Pollutant Concentrations?

Health Impacts of Carbon Monoxide

As described previously, exposure to high concentrations of CO can result in dizziness, fatigue, chest pain, headaches, and impairment of central nervous system functions. Mobile-source impacts, including those related to CO, occur essentially on two scales of motion. Regionally, project-related construction travel would add to regional trip generation and increase the vehicle miles traveled within the local airshed and the SJVAB. Locally, construction traffic would be added to the roadway system in the vicinity of the project Site. Although the SJVAB is currently an attainment area for CO, there is a potential for the formation of microscale CO "hotspots" to occur immediately around points of congested traffic. Hotspots can form 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/or is operating on roadways crowded with non-project 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 SJVAB is steadily decreasing.

The SJVAPCD Guidance for Assessing and Mitigating Air Quality Impacts states that a quantitative CO hotspots analysis be performed if either of the following two conditions exist: (1) a traffic study for the project indicates that the level of service (LOS) on one or more streets or at one or more intersections in the project vicinity will be reduced to LOS E or F, or (2) a traffic study indicates that the project will substantially worsen an already existing LOS F on one or more streets or at more or more intersections in the project vicinity (SJVAPCD 2015). The project would cause a temporary increase in traffic during the 18-month construction period. However, the project would only result in 38 additional daily trips during operation. Therefore, the project would not materially contribute to the local traffic or impact local intersections level of service. As such, impacts to sensitive receptors with regard to potential CO hotspots resulting from the project's contribution to cumulative traffic-related air quality impacts would be **less than significant**.

Health Impacts of 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 (immediate) and/or chronic (cumulative) non-cancer health effects. A toxic substance released into the air is considered a toxic air contaminant (TAC). Adverse health effects associated with exposure to TACs may include carcinogenic (i.e., cancer-causing) and non-carcinogenic effects. 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. Non-carcinogenic effects typically affect one or more target organ systems and may be experienced on either short-term (acute) or long-term (chronic) exposure to a given TAC.

TACs are identified by federal and state agencies based on a review of available scientific evidence. In the State of California, TACs are identified through a two-step process that was established in 1983 under the Toxic Air Contaminant Identification and Control Act. This two-step process of risk identification and risk management and reduction was designed to protect residents from the health effects of toxic substances in the air. In addition, the California Air Toxics

"Hot Spots" Information and Assessment Act, Assembly Bill 2588, was enacted by the legislature in 1987 to address public concern over the release of TACs into the atmosphere.

As discussed in Section 2.4.2.1.2, a construction HRA was performed to estimate the Maximum Individual Cancer Risk and the Chronic Hazard Index for proximate sensitive receptors as a result of project construction. Results of the construction HRA are presented in Table 14, Construction Health Risk Assessment Results – Unmitigated.

Table 14. Construction Health Risk Assessment Results – Unmitigated

Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
Maximum Individual Cancer Risk – Residential	Per Million	0.4	20	Less than Significant
Chronic Hazard Index – Residential	Index Value	0.0003	1.0	Less than Significant

Source: SJVAPCD 2015.
Note: CEQA = California Environmental Quality Act.
See Appendix C.

As shown in Table 14, project construction activities would result in a Residential Maximum Individual Cancer Risk of 0.4 in 1 million, which is less than the significance threshold of 20 in 1 million. Project construction would result in a Residential Chronic Hazard Index of 0.0003, which is below the 1.0 significance threshold. The project construction TAC health risk impacts would be less than significant.

During operation, the project would not emit TAC emissions in substantial quantities as the operational emissions would consist of area source emissions from consumer products and from employees commuting, the majority of those emissions are offsite. As such, impacts would be **less than significant**.

Valley Fever

The project Site is located in an area where there is a high risk of Valley Fever, a fungal-borne disease. The disease is caused by inhalation of dust containing the Coccidioides immitis, a fungal spore. Most people who are exposed have no or very mild systems; however, in a small percentage of the population, it can generate more serious systems of meningitis, pneumonia, or chronic fatigue. As discussed in Section 2.1.2.2, the average incidence rate of Valley Fever within the County is above the statewide average. Construction of the project would comply with SJVAPCD Regulation VIII (Fugitive PM_{10} Prohibition), which requires fugitive dust sources to implement best available control measures for all sources and prohibits all forms of visible particulate matter from crossing any property line. SJVAPCD Regulation VIII is intended to reduce PM_{10} emissions from any transportation, handling, construction, or storage activity that has the potential to generate fugitive dust. The nearest sensitive-receptor land use (existing residence) is located 80 feet from the project site. Pursuant to Regulation VIII, Rule 8021, Section 6.3, the project would be required to develop, prepare, submit, obtain approval of, and implement a dust control plan, which would control the release of the *Coccidioides immitis* fungus during construction activities. Construction workers have increased risk of exposure, since this job results in the disturbance of soils where fungal spores are found. Valley Fever infection rates are highest in California from June to November, and the illness is endemic in Fresno County. Therefore, a risk of Valley Fever infection exists for construction personnel working on the project in the peak summer and fall months. However, the project would implement **PDF-AQ-1** which would require the preparation off a Valley Fever Management Plan and put in place measures to reduce exposure to C. immitis. Therefore, the project would have a **less than significant** impact with respect to valley fever exposure for sensitive receptors.

2.5.4 Would the Project Result in Other Emissions (Such as those Leading to Odors) Adversely Affecting a Substantial Number of People?

The analysis of the project's potential to result in other emissions is focused on potential odor impacts. The occurrence and severity of potential odor impacts depend on numerous factors. The nature, frequency, and intensity of the source; the wind speeds and direction; and the sensitivity of receiving location each contribute to the intensity of the impact. Although offensive odors seldom cause physical harm, they can be annoying and cause distress among the public and generate citizen complaints.

Odors would be potentially generated from vehicles and equipment exhaust emissions during construction of the project. Potential odors produced during construction would be attributable to concentrations of unburned hydrocarbons from tailpipes of construction equipment. Such odors would disperse rapidly from the project site and generally occur at magnitudes that would not affect substantial numbers of people. Therefore, impacts associated with odors during construction would be less than significant.

Land uses and industrial operations that are associated with odor complaints include agricultural uses, wastewater treatment plants, food processing plants, chemical plants, composting, refineries, landfills, dairies, and fiberglass molding. The project would consist of the solar facility, BESS, and operations and maintenance building. There would be no sources onsite that are associated with odor complaints. Therefore, project operations would result in an odor impact that is **less than significant.**

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 (i.e., 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 2017a).

The greenhouse effect is the trapping and build-up of heat in the atmosphere (troposphere) near the Earth's surface. The greenhouse effect traps heat in the troposphere through a threefold process as follows: 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.

The scientific record of the Earth's climate shows that the climate system varies naturally over a wide range of time scales and that, in general, climate changes prior to the Industrial Revolution in the 1700s can be explained by natural causes such as changes in solar energy, volcanic eruptions, and natural changes in GHG concentrations. Recent climate changes, in particular the warming observed over the past century, however, cannot be explained by natural causes alone. Rather, it is extremely likely that human activities have been the dominant cause of that warming since the mid-twentieth century and is the most significant driver of observed climate change (IPCC 2013; EPA 2017a). Human influence on the climate system is evident from the increasing GHG concentrations in the atmosphere, positive radiative forcing, observed warming, and improved understanding of the climate system (IPCC 2013). The atmospheric concentrations of GHGs have increased to levels unprecedented in the last 800,000 years, primarily from fossil fuel emissions and secondarily from emissions associated with land use changes (IPCC 2013). Continued emissions of GHGs will cause further warming and changes in all components of the climate system, which is discussed further in Section 3.3.2, Potential Effects of Climate Change.

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. As defined in California Health and Safety Code, Section 38505(g), for purposes of administering many of the state's primary GHG emissions reduction programs, GHGs include carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), sulfur hexafluoride (SF_6), and nitrogen trifluoride (NF_3). (See also CEQA Guidelines, Section 15364.5.) Some GHGs, such as CO_2, CH_4, and N_2O, occur naturally and are emitted into the atmosphere through natural processes and human activities. Of these gases, CO_2 and CH_4 are emitted in the greatest quantities from human activities. Manufactured GHGs, which have a much

greater heat-absorption potential than CO_2, include fluorinated gases, such as HFCs, PFCs, and SF_6, which are associated with certain industrial products and processes. The following paragraphs provide a summary of the most common GHGs and their sources.[8]

Carbon Dioxide. CO_2 is a naturally occurring gas and a by-product of human activities and is the principal anthropogenic GHG that affects the Earth's radiative balance. Natural sources of CO_2 include respiration of bacteria, plants, animals, and fungus; evaporation from oceans; volcanic out-gassing; and decomposition of dead organic matter. Human activities that generate CO_2 are from the combustion of fuels such as coal, oil, natural gas, and wood and changes in land use.

Methane. CH_4 is produced through both natural and human activities. CH_4 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. N_2O is produced through natural and human activities, mainly through agricultural activities and natural biological processes, although fuel burning and other processes also create N_2O. Sources of N_2O 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 N_2O as a propellant (e.g., rockets, racecars, and aerosol sprays).

Fluorinated Gases. Fluorinated gases (also referred to as F-gases) are synthetic powerful GHGs emitted from many industrial processes. Fluorinated gases are commonly used as substitutes for stratospheric ozone-depleting substances (e.g., CFCs, HCFCs, and halons). The most prevalent fluorinated gases include the following:

- **Hydrofluorocarbons:** HFCs are compounds containing only hydrogen, fluorine, and carbon atoms. HFCs are synthetic chemicals used as alternatives to ozone-depleting substances in serving many industrial, commercial, and personal needs. HFCs are emitted as by-products of industrial processes and are used in manufacturing.
- **Perfluorocarbons:** PFCs are a group of human-made chemicals composed of carbon and fluorine only. These chemicals were introduced as alternatives, with HFCs, to the ozone depleting substances. The two main sources of PFCs are primary aluminum production and semiconductor manufacturing. Since PFCs have stable molecular structures and do not break down through the chemical processes in the lower atmosphere, these chemicals have long lifetimes, ranging between 10,000 and 50,000 years.
- **Sulfur Hexafluoride:** SF_6 is a colorless gas soluble in alcohol and ether and slightly soluble in water. SF_6 is used for insulation in electric power transmission and distribution equipment, semiconductor manufacturing, the magnesium industry, and as a tracer gas for leak detection.
- **Nitrogen Trifluoride:** NF_3 is used in the manufacture of a variety of electronics, including semiconductors and flat panel displays.

[8] The descriptions of GHGs are summarized from the Intergovernmental Panel on Climate Change (IPCC) Second Assessment Report (1995), IPCC Fourth Assessment Report (2007), CARB's "Glossary of Air Pollution Terms" (2016a), and EPA's "Glossary of Climate Change Terms" (2016e).

Chlorofluorocarbons. CFCs are synthetic chemicals that have been used as cleaning solvents, refrigerants, and aerosol propellants. CFCs are chemically unreactive in the lower atmosphere (troposphere) and the production of CFCs was prohibited in 1987 due to the chemical destruction of stratospheric O_3.

Hydrochlorofluorocarbons. HCFCs are a large group of compounds, whose structure is very close to that of CFCs—containing hydrogen, fluorine, chlorine, and carbon atoms—but including one or more hydrogen atoms. Like HFCs, HCFCs are used in refrigerants and propellants. HCFCs were also used in place of CFCs for some applications; however, their use in general is being phased out.

Black Carbon. Black carbon is a component of fine particulate matter, which has been identified as a leading environmental risk factor for premature death. It is produced from the incomplete combustion of fossil fuels and biomass burning, particularly from older diesel engines and forest fires. Black carbon warms the atmosphere by absorbing solar radiation, influences cloud formation, and darkens the surface of snow and ice, which accelerates heat absorption and melting. Black carbon is a short-lived species that varies spatially, which makes it difficult to quantify the global warming potential. DPM emissions are a major source of black carbon and are TACs that have been regulated and controlled in California for several decades to protect public health. In relation to declining DPM from the California Air Resources Board's (CARB's) regulations pertaining to diesel engines, diesel fuels, and burning activities, CARB estimates that annual black carbon emissions in California have reduced by 70% between 1990 and 2010, with 95% control expected by 2020 (CARB 2014a).

Water Vapor. The primary source of water vapor is evaporation from the ocean, with additional vapor generated by sublimation (change from solid to gas) from ice and snow, evaporation from other water bodies, and transpiration from plant leaves. Water vapor is the most important, abundant, and variable GHG in the atmosphere and maintains a climate necessary for life.

Ozone. Tropospheric O_3, which is created by photochemical reactions involving gases from both natural sources and human activities, acts as a GHG. Stratospheric O_3, which is created by the interaction between solar ultraviolet radiation and molecular oxygen (O_2), plays a decisive role in the stratospheric radiative balance. Depletion of stratospheric O_3, due to chemical reactions that may be enhanced by climate change, results in an increased ground-level flux of ultraviolet-B radiation.

Aerosols. Aerosols are suspensions of particulate matter in a gas emitted into the air through burning biomass (plant material) and fossil fuels. Aerosols can warm the atmosphere by absorbing and emitting heat and can cool the atmosphere by reflecting light.

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 2016d). 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 CO_2; therefore, GWP-weighted emissions are measured in metric tons of CO_2 equivalent (MT CO_2e).

The current version of CalEEMod (version 2022.1.1.29) assumes that the GWP for CH_4 is 25 (so emissions of 1 MT of CH_4 are equivalent to emissions of 25 MT of CO_2), and the GWP for N_2O is 298, based on the IPCC Fourth Assessment Report (IPCC 2007). The GWP values identified in CalEEMod were applied to the project.

3.2 Regulatory Setting

3.2.1 Federal Regulations

West Virginia et al v. U.S. Environmental Protection Agency

On June 30, 2022, the Supreme Court issued its opinion in West Virginia v. U.S. Environmental Protection Agency, invalidating the 2015 Obama-era Clean Power Plan (CPP). *The ruling held that Section 111(d) of the Clean Air Act does not authorize EPA to devise emissions caps based on "generation shifting"—the approach EPA took in the CPP wherein power plants would be required to transition from higher-emitting (e.g., coal) to lower-emitting (e.g., natural-gas) to then even lower-emitting (e.g., wind and solar) electricity production.* The Obama administration promulgated the CPP to establish limits on CO_2 emissions from power plants, creating a scheme geared toward shifting the generation of electricity from steam-generating units to natural gas-fired units, and from fossil-fuel fired units to renewable energy sources. The Supreme Court's ruling will constrain EPA's ability to regulate carbon emissions from the power sector by agency rulemaking, and the Court's assertion of the major questions doctrine will have a lasting impact on the administrative state.

Massachusetts v. U.S. Environmental Protection Agency

On April 2, 2007, in *Massachusetts v. U.S. Environmental Protection Agency*, the U.S. Supreme Court ruled that CO_2 was a pollutant and 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 making these decisions, the EPA administrator is required to follow the language of Section 202(a) of the Clean Air Act. On December 7, 2009, the administrator signed a final rule with two distinct findings regarding GHGs under Section 202(a) of the Clean Air Act:

- The elevated concentrations of GHGs—CO_2, CH_4, N_2O, hydrofluorocarbons, perfluorocarbons, and SF_6—in the atmosphere threaten the public health and welfare of current and future generations. This is referred to as the "endangerment finding."
- The combined emissions of GHGs—CO_2, CH_4, N_2O, and hydrofluorocarbons—from new motor vehicles and new motor vehicle engines contribute to the GHG air pollution that endangers public health and welfare. This is referred to as 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 Clean Air Act.

Energy Independence and Security Act

On December 19, 2007, President George W. Bush signed the Energy Independence and Security Act of 2007. Among other key measures, the act would do the following to aid in the reduction of national GHG emissions:

1. Increase the supply of alternative fuel sources by setting a mandatory Renewable Fuel Standard requiring fuel producers to use at least 36 billion gallons of biofuel by 2022.
2. Set a target of 35 miles per gallon (mpg) for the combined fleet of cars and light trucks by model year 2020 and direct the National Highway Traffic Safety Administration (NHTSA) to establish a fuel economy program for medium- and heavy-duty trucks and create a separate fuel economy standard for work trucks.
3. Prescribe or revise standards affecting regional efficiency for heating and cooling products and procedures for new or amended standards, energy conservation, energy efficiency labeling for consumer electronic products, residential boiler efficiency, electric motor efficiency, and home appliances.

EPA and National Highway Traffic Safety Administration Joint Final Rule for Vehicle standards

In response to the U.S. Supreme Court ruling discussed above, the Bush Administration issued Executive Order (EO) 13432 in 2007 directing the 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, the 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 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, the EPA and NHTSA proposed stringent, coordinated federal GHG and fuel economy standards for model years 2017–2025 light-duty vehicles. The proposed standards projected to achieve 163 grams per mile of CO_2 in 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 model years 2022–2025 cars and light trucks (EPA 2017b).

In August 2016, the EPA and NHTSA announced the adoption of the phase two program related to the fuel economy and GHG standards for medium- and heavy-duty trucks. The phase two program will apply to vehicles with model year 2018 through 2027 for certain trailers, and model years 2021 through 2027 for semi-trucks, large pickup trucks, vans, and all types and sizes of buses and work trucks. The final standards are expected to lower CO_2 emissions by approximately 1.1 billion MT and reduce oil consumption by up to two billion barrels over the lifetime of the vehicles sold under the program (EPA and NHTSA 2016).

In August 2018, EPA and NHTSA proposed to amend certain fuel economy and GHG standards for passenger cars and light trucks and establish new standards for model years 2021 through 2026. Compared to maintaining the post-2020 standards now in place, the 2018 proposal would increase U.S. fuel consumption by about half a million barrels per day (2%–3% of total daily consumption, according to the Energy Information Administration) and would impact the global climate by 3/1000th of one degree Celsius by 2100 (EPA and NHTSA 2018). California and other states have stated their intent to challenge federal actions that would delay or eliminate GHG reduction measures and have committed to cooperating with other countries to implement global climate change initiatives. Thus, the timing and consequences of the 2018 federal proposal are speculative at this time.

In 2019, the EPA and NHTSA published the Safer Affordable Fuel-Efficient Vehicles Rule Part One: One National Program (SAFE-1) (84 Fed. Reg. 51310), which revoked California's authority to set its own GHG emissions standards and set zero-emission vehicle (ZEV) mandates in California. In March 2020, Part Two was issued which set CO_2 emissions standards and corporate average fuel economy standards for passenger vehicles and light-duty trucks for model years 2021 through 2026. In March 2022, EPA reinstated California's authority under the Clean Air Act to implement its own GHG emission standards and ZEV sales mandate. EPA's action concludes its reconsideration of the 2019 SAFE-1 rule 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.

3.2.2 State Regulations

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

EO S-3-05

EO S-3-05 (June 2005) established California's GHG emissions reduction targets and laid out responsibilities among the State agencies for implementing the EO and for reporting on progress toward the targets. This EO established the following targets:

- By 2010, reduce GHG emissions to 2000 levels
- By 2020, reduce GHG emissions to 1990 levels
- By 2050, reduce GHG emissions to 80% below 1990 levels

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 at 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. 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.

CARB's Climate Change Scoping Plan

One specific requirement of AB 32 is 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 emission limit and initiate the transformations needed to achieve the State's long-range climate objectives.

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 EOs S-3-05 and B-16-2012 (discussed below). The *First Update* concluded that California is on track to meet the 2020 target but recommended a 2030 mid-term GHG reduction target be established to ensure a continuum of action to reduce emissions (CARB 2014a).

In 2015, as directed by EO B-30-15, CARB began working on an update to the Scoping Plan to incorporate the 2030 target of 40% below 1990 levels by 2030 to keep California on its trajectory toward meeting or exceeding the long-term goal of reducing GHG emissions to 80% below 1990 levels by 2050 as set forth in S-3-05.

In December 2017, CARB adopted the *2017 Climate Change Scoping Plan Update (2030 Scoping Plan)* (CARB 2017). The 2030 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 and define the State's climate change priorities to 2030 and beyond.

The Scoping Plan recommends strategies for implementation at the Statewide level to meet the goals of AB 32, SB 32, and the EOs and establishes an overall framework for the measures that will be adopted to reduce California's GHG emissions. A project is considered consistent with the statutes and EOs if it meets the general policies in reducing GHG emissions to facilitate the achievement of the State's goals and does not impede attainment of those goals. As discussed in several cases, a given project need not be in perfect conformity with each and every planning policy or goals to be consistent. A project would be consistent, if it will further the objectives and not obstruct their attainment. CARB adopted the 2022 Scoping Plan Update on December 15, 2022, which assesses progress towards achieving the SB 32 2030 target and lays out a path to achieve carbon neutrality by 2050.

EO B-55-18

EO B-55-18 (September 2018) establishes a Statewide policy for California to achieve carbon neutrality as soon as possible, and no later than 2045, and 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.

Building Energy

Title 24, Part 6

Title 24 of the California Code of Regulations was established in 1978 and serves to enhance and regulate California's building standards. While 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. 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 current Title 24 standards are the 2019 Title 24 Building Energy Efficiency Standards, which became effective January 1, 2020. In general, single-family residences built to the 2019 standards are anticipated to use approximately 7% less energy due to energy efficiency measures than those built to the 2016 standards; once rooftop solar electricity generation is factored in, single-family residences built under the 2019 standards will use approximately 53% less energy than those under the 2016 standards (CEC 2018a). Nonresidential buildings built to the 2019 standards are anticipated to use an estimated 30% less energy than those built to the 2016 standards (CEC 2018a).

On August 11, 2021, the CEC adopted the 2022 Building Energy Efficiency Standards (Energy Code). In December 2021, the 2022 Energy Code was approved by the California Building Standards Commission for inclusion into the California Building Standards Code. The 2022 Energy Code encourages efficient electric heat pumps, establishes electric-ready requirements for new homes, expands solar photovoltaic and battery storage standards, strengthens ventilation standards, and more. Buildings whose permit applications are applied for on or after January 1, 2023, must comply with the 2022 Energy Code. Under the 2022 amendments, California buildings would consume approximately 198,600 GWh of electricity and 6.14 billion therms of fossil fuel natural gas in 2023 compared to approximately 199,500 GWh and 6.17 billion therms of electricity and fossil fuel natural gas, respectively, under the 2019 Energy Code (CEC 2021). On a statewide basis throughout 2023, all measures for newly constructed buildings and altered components of existing buildings collectively would save approximately 33 million therms of fossil fuel natural gas and 1.3 billion kWh of electricity (CEC 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 as well as 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 2019 CALGreen standards are the current applicable standards. For nonresidential projects (which the residential portion of the project is subject to), some of the key mandatory CALGreen 2019 standards involve requirements related to bicycle parking, designated parking for clean air vehicles, electric vehicle (EV) charging stations, shade trees, water conserving plumbing fixtures and fittings, outdoor potable water use in landscaped areas, recycled water supply systems, construction waste management, excavated soil and land clearing debris, and commissioning (24 CCR Part 11).

Title 20

Title 20 of the California Code of Regulations requires manufacturers of appliances to meet State and federal standards for energy and water efficiency. The CEC certifies an appliance based on a manufacturer's demonstration that the appliance meets the standards.

Renewable Energy and Energy Procurement

SB 1078, EO-14-08, SBX1-2, SB 350, and SB 100

SB 1078 (Sher) (September 2002) established the Renewable Portfolio Standard (RPS) program, which required an annual increase in renewable generation by the utilities equivalent to at least 1% of sales, with an aggregate goal of 20% by 2017. EO S-14-08 (November 2008) required that all retail suppliers of electricity in California serve

33% of their load with renewable energy by 2020. SB X1 2 expanded the RPS 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. SB 350 (October 2015) further expanded the RPS by establishing a goal of 50% of the total electricity sold to retail customers in California per year by December 31, 2030. SB 100 (2018) increased the standards set forth in SB 350 establishing that 44% of the total electricity sold to retail customers in California per year by December 31, 2024, 52% by December 31, 2027, and 60% by December 31, 2030, be secured from qualifying renewable energy sources. 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. On April 30, 2022, California supplied 100% of its statewide demand with renewables at 2:45 pm (Electrek 2022).

Mobile Sources

State Vehicle Standards (AB1493 and EO B-16-12)

AB 1493 (July 2002) was enacted in a response to the transportation sector accounting for more than half of California's CO_2 emissions. AB 1493 required CARB to set GHG emission standards for passenger vehicles, light-duty trucks, and other vehicles determined by the State board to be vehicles that are primarily used for noncommercial personal transportation in the State. The bill 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-emissions vehicles. It ordered CARB, CEC, 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 benchmark 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. This directive did not apply to vehicles that have special performance requirements necessary for the protection of the public safety and welfare. As explained under the "Federal Vehicle Standards" description above, EPA and NHTSA approved the SAFE Vehicles Rule Part One and Two, which revoked California's authority to set its own GHG emissions standards and set zero-emission vehicle mandates in California. As President Biden issued EO 13990 to review Part One and Part Two of the SAFE Vehicles Rule, this analysis continues to utilize the best available information at this time, as set forth in EMFAC and assumed in CalEEMod.

Heavy Duty Diesel (Title 13, Division 3, Chapter 1, Section 2025)

CARB adopted the final Heavy-Duty Truck and Bus Regulation, Title 13, Division 3, Chapter 1, Section 2025, on December 31, 2014, to reduce particulate matter and NO_x emissions from heavy-duty diesel vehicles. The rule requires particulate matter filters be applied to newer heavier trucks and buses by January 1, 2012, with older vehicles required to comply by January 1, 2015. The rule will require nearly all diesel trucks and buses to be compliant with the 2010 model year engine requirement by January 1, 2023. CARB also adopted an Airborne Toxic Control Measure to limit idling of diesel-fueled commercial vehicles on December 12, 2013. This rule requires diesel-fueled vehicles with gross vehicle weights greater than 10,000 pounds to idle no more than 5 minutes at any location (13 CCR 2485).

ES S-1-07

EO S-1-07 (January 2007, implementing regulation adopted in April 2009) sets a declining low carbon fuel standard (LCFS) for GHG emissions measured in CO_2e grams per unit of fuel energy sold in California. The initial target of the LCFS was to reduce the carbon intensity of California passenger vehicle fuels by at least 10% by 2020 (17 CCR 95480 et seq.). In September 2018, CARB approved amendments for the LCFS that require a 20% reduction in carbon intensity by year 2030.

SB 375

SB 375 (Steinberg) (September 2008) addresses GHG emissions associated with the transportation sector through regional transportation and sustainability plans. SB 375 requires CARB to adopt regional GHG reduction targets for the automobile and light-truck sector for 2020 and 2035 and to update those targets every 8 years. 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 (RTP) that will achieve the GHG reduction targets set by CARB.

Advanced Clean Cars Program and Zero-Emissions Vehicle Program

The Advanced Clean Cars (ACC) I program (January 2012) is an emissions-control program for model years 2015 through 2025. The program combines the control of smog- and soot-causing pollutants and GHG emissions into a single coordinated package of regulations: the Low-Emission Vehicle (LEV) regulation for criteria air pollutant and GHG emissions and a technology forcing regulation for zero-emission vehicles (ZEV) that contributes to both types of emission reductions (CARB 2021b). The package includes elements to reduce smog-forming pollution, reduce GHG emissions, promote clean cars, and provide the fuels for clean cars. To improve air quality, CARB has implemented new emission standards to reduce smog-forming emissions beginning with 2015 model year vehicles. It is estimated that in 2025 cars will emit 75 percent less smog-forming pollution than the average new car sold in 2015 (CARB 2021b). The ZEV program will act as the focused technology of the ACC I program by requiring manufacturers to produce increasing numbers of ZEVs and plug-in hybrid EVs in the 2018 to 2025 model years.

The ACC II program is currently in development to establish the next set of LEV and ZEV requirements for model years after 2025 to contribute to meeting federal ambient air quality ozone standards and California's carbon neutrality standards (CARB 2021b). The main objectives of ACC II are:

1. Maximize criteria and GHG emission reductions through increased stringency and real-world reductions.
2. Accelerate the transition to ZEVs through both increased stringency of requirements and associated actions to support wide-scale adoption and use.

An ACC II rulemaking package, which will consider technological feasibility, environmental impacts, equity, economic impacts, and consumer impacts, is anticipated to be presented to CARB for consideration in August 2022.

AB 1236

AB 1236 (October 2015) required a city, county, or city and county to approve an application for the installation of EV charging stations, as defined, through the issuance of specified permits, unless the city or county makes specified written findings based upon substantial evidence in the record that the proposed installation would have a specific, adverse impact upon the public health or safety, and there is no feasible method to satisfactorily mitigate or avoid the specific, adverse impact. The bill provided for appeal of that decision to the planning commission, as

specified. The bill provided that the implementation of consistent Statewide standards to achieve the timely and cost-effective installation of EV charging stations is a matter of Statewide concern. The bill required EV charging stations to meet specified standards.

EO-79-20

EO N-79-20 (September 2020) requires CARB to develop regulations as follows: (1) Passenger vehicle and truck regulations requiring increasing volumes of new ZEVs sold in the State towards the 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 towards the target of 100% of the fleet transitioning to zero-emission vehicles by 2045 everywhere feasible and for all drayage trucks to be zero emission by 2035; and (3) strategies, in coordination with other State agencies, the EPA and local air districts, to achieve 100% zero-emissions from off-road vehicles and equipment operations in the State by 2035. EO N-79-20 called for the development of a Zero-Emissions Vehicle Market Development Strategy, which was released February 2021, to be updated every 3 years, that ensures coordination and implementation of the EO and outlines actions to support new and used ZEV markets. In addition, the EO specifies identification of near-term actions, and investment strategies, to improve clean transportation, sustainable freight, and transit options; and calls for development of strategies, recommendations, and actions by July 15, 2021, to manage and expedite the responsible closure and remediation of former oil extraction sites as the State transitions to a carbon-neutral economy.

Advanced Clean Trucks (ACT) Regulation

The purpose of the ACT Regulation (June 2020) is to accelerate the market for zero-emission vehicles in the medium- and heavy-duty truck sector and to reduce emissions NO_x, fine particulate matter, TACs, GHGs, and other criteria pollutants generated from on-road mobile sources (CARB 2021c). Requiring medium- and heavy-duty vehicles to transition to zero-emissions technology will help California meet established near- and long-term air quality and climate mitigation targets.

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. The term of the EO extended through February 28, 2016, although many of the directives have become permanent water-efficiency standards and requirements. The EO includes specific directives that set strict limits on water usage in the State.

EO B-37-16

Issued May 2016, EO B-37-16 directed the State Water Resources Control Board (SWRCB) to adjust emergency water conservation regulations through the end of January 2017 to reflect differing water supply conditions across the State. The SWRCB also developed a proposal to achieve a mandatory reduction of potable urban water usage that builds off the mandatory 25% reduction called for in EO B-29-15. The SWRCB and Department of Water Resources will develop new, permanent water use targets that build upon the existing State law requirements that the State achieve 20% reduction in urban water usage by 2020. EO B-37-16 also specifies that the SWRCB permanently prohibit water-wasting practices such as hosing off sidewalks, driveways, and other hardscapes;

washing automobiles with hoses not equipped with a shut-off nozzle; using non-recirculated water in a fountain or other decorative water feature; watering lawns in a manner that causes runoff, or within 48 hours after measurable precipitation; and irrigating ornamental turf on public street medians.

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 shut-off nozzle on hoses, and taking cars to commercial car washes that use recycled water.

EO N-7-22

On March 28, 2022, Governor Newsom directed the State Water Board to consider adopting emergency regulations focused on urban water suppliers under EO N-7-22. If adopted, the potential regulations would require the vast majority of urban water suppliers to enact Level 2 of their water shortage contingency plans. Those plans are developed by the suppliers and provide actions they will take if their water supplies are cut to certain levels. Here, Level 2 would represent the suppliers acting as if their water supply had been reduced by 20%. The executive order also directs the State Water Board to consider adopting emergency regulations defining "non-functional turf" by May 25, 2022. Both the executive order and corresponding press release confirm that the definition should only apply to ornamental turf that is not functional, excluding turf such as school fields, sports fields and parks from the definition. If the definition is adopted, the State Water Board must then consider banning irrigation of the non-functional turf in the commercial, industrial and institutional sectors (with limited exceptions). The proposed ban is anticipated to save several hundred thousand acre-feet of water per year.

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 the decrease in landfill capacity. AB 939 mandated a reduction of waste being disposed where 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 the year 2000. AB 341 (Chapter 476, Statutes of 2011) 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 the year 2020, and annually thereafter. AB 1826 (Chapter 727, Statutes of 2014, effective 2016) requires businesses to recycle their organic waste (i.e., food waste, green waste, landscape and pruning waste, nonhazardous wood waste, and food-soiled paper waste that is mixed in with food waste) depending on the amount of waste they generate per week. 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. CalRecycle was granted the regulatory authority required to achieve the organic waste disposal reduction targets and establishes an additional target that not less than 20% of currently disposed edible food is recovered for human consumption by 2025 (CalRecycle 2019).

3.2.3 Local Regulations

3.2.3.1 San Joaquin Valley Air Pollution Control District

The SJVAPCD does not regulate GHG emissions directly through its permitting responsibilities for stationary sources. Thus, there are no SJVAPCD rules or regulations related to GHGs. The SJVAPCD, however, effects reductions of GHGs from new and modified stationary sources when acting as a lead agency for CEQA. The SJVAPCD implements its GHG policies and reviews whether new or modified stationary sources will implement best performance standards (BPS).

In 2009, the SJVAPCD developed an internal policy and guidance for local land use agencies to use in evaluating GHG impacts under CEQA. In the *Final Staff Report – Addressing GHG Emissions Impacts under the California Environmental Quality Act* (SJVAPCD 2009b), the SJVAPCD reviewed potential GHG significance thresholds and approaches suggested by or adopted by the following entities, ranging from quantification of a project's GHG impacts without a recommended significance threshold to a zero threshold to specific significance thresholds for different kinds of projects (e.g., residential, mixed use, industrial, plans).[9] The following discussion summarizes the SJVAPCD's conclusions about various categories of GHG significance thresholds.

Zero Threshold. The SJVAPCD concluded that "although a zero threshold is appealing in its simplicity; execution of a zero threshold would be difficult or impossible" (SJVAPCD 2009b). Furthermore, the SJVAPCD found that projects that could not reduce their emissions to zero would require preparation of an environmental impact report and adoption of a statement of overriding consideration by the lead agency. Potentially, projects could choose to relocate to a region with a less stringent threshold, so-called "leakage" that would still result in GHG emissions outside the SJVAPCD. Finally, the SJVAPCD noted that CARB concluded that zero thresholds are not mandated because some level of GHG emissions is still consistent with climate stabilization and other regulatory programs will result in GHG reductions. For these reasons, the SJVAPCD did not support a zero threshold. Accordingly, a zero threshold was not selected as an appropriate GHG/climate change threshold for this assessment.

Non-zero Quantitative Thresholds. As indicated previously, the SJVAPCD reviewed numerous quantitative thresholds adopted or proposed by other air districts and organizations, including "mass of GHG emissions generate per unit of activity, GHG emissions per capita per unit basis, and percent reduction compared to Business-as-Usual" (SJVAPCD 2009b). While a tiered approach was evaluated, with the final tier incorporating a quantitative threshold, the SJVAPCD concluded that "without supporting scientific information, establishment of tier trigger levels could be argued to be arbitrary, and District staff does not believe the available science supports establishing a bright-line threshold, above which emissions are significant and below which they are not" (SJVAPCD 2009b).

Best Performance Standards. The SJVAPCD evaluated performance-based standards, which would state "in quantifiable terms the level and extent of the attribute necessary to reach a goal or objective (SJVAPCD 2009b). The SJVAPCD considered a project achieving the performance-based standard or mitigating GHG emissions to an equivalent emission reduction level would be considered to have a less-than-significant cumulative impact on

[9] These documents encompassed the primary approaches for establishing significance thresholds in the period prior to the March 18, 2010 effective date of revisions of the CEQA Guidelines in accordance with SB 97. Additional guidance regarding assessment of GHG impacts were provided in the revised CEQA Guidelines and accompanying *Final Statement of Reasons for Regulatory Action – Amendments to the State CEQA Guidelines Addressing Analysis and Mitigation of Greenhouse Gas Emissions Pursuant to SB97* (CNRA 2009a). In addition, the California appellate courts and the Supreme Court have more recently considered CEQA cases and, in some cases, issued published decisions that provide additional direction regarding the appropriateness of certain GHG assessment methodologies and significance thresholds.

climate change. In conclusion, the SJVAPCD found that the state's GHG emission reduction target would be accomplished by achieving a 29% reduction from business-as-usual (BAU) and that this achieving this reduction would be a "de facto" performance-based standard for GHG emission reductions.

On December 17, 2009, the SJVAPCD Governing Board adopted *Guidance for Valley Land-Use Agencies in Addressing GHG Emission Impacts for New projects under CEQA* (SJVAPCD 2009c). The guidance recommends the following hierarchy for evaluating a project's impact with respect to its GHG emissions:

- projects complying with an approved GHG emission reduction plan or GHG mitigation program, which avoids or substantially reduces GHG emissions within the geographic area in which the project is located would be determined to have a less-than-significant individual and cumulative impact for GHG emissions. Such plans or programs must be specified in law or approved by the lead agency with jurisdiction over the affected resource and supported by a CEQA compliant environmental review document adopted by the lead agency. projects complying with an approved GHG emission reduction plan or GHG mitigation program would not be required to implement BPS.
- projects implementing BPS would not require quantification of project specific GHG emissions.[10] Consistent with the CEQA Guidelines, such projects would be determined to have a less-than-significant individual and cumulative impact for GHG emissions.
- projects not implementing BPS would require quantification of project-specific GHG emissions and demonstration that project-specific GHG emissions would be reduced or mitigated by at least 29%, compared to BAU, including GHG emission reductions achieved since the 2002–2004 baseline period. projects achieving at least a 29% GHG emission reduction compared to BAU would be determined to have a less-than-significant individual and cumulative impact for GHG (SJVAPCD 2009c).
- For development projects, BPS would include project design elements, land use decisions, and technologies that reduce GHG emissions. While the SJVAPCD has adopted BPS for several types of stationary sources (e.g., boilers), it has not developed BPS for land development projects. projects implementing any combination of BPS, and/or demonstrating a total 29% reduction in GHG emissions from BAU, would be determined to have a less-than-significant individual and cumulative impact on global climate change (SJVAPCD 2015a).

3.2.3.2 Fresno Council of Governments

SB 375 requires MPOs to prepare an SCS in their RTP. The FCOG developed the 2022 RTP/SCS as the region's strategy to fulfill the requirements of SB 375. The 2022 RTP establishes a development pattern for the region that, when integrated with the transportation network and other policies and measures, would reduce GHG emissions from transportation (excluding goods movement). Specifically, the 2022 RTP/SCS links the goals of sustaining mobility with the goals of fostering economic development; enhancing the environment; reducing energy consumption; promoting transportation-friendly development patterns; and encouraging all residents affected by socioeconomic, geographic, and commercial limitations to be provided with fair access. The 2022 RTP/SCS does

[10] The guidance recommends, "projects requiring preparation of an Environmental Impact Report for any other reason would require quantification of project specific GHG emissions" (SJVAPCD 2009c). This assessment for the project does include quantification of the project's construction and operational GHG emissions.

not require that local general plans, specific plans, or zoning be consistent with it but provide incentives for consistency for governments and developers.

3.3 Greenhouse Gas Inventories and Climate Change Conditions

3.3.1 Sources of Greenhouse Gas Emissions

Anthropogenic GHG emissions worldwide in 2018 (the most recent year for which data is available) totaled approximately 55,600 million metric tons (MMT) of CO_2e, excluding land use change and forestry (PBL 2020). Five countries—China, the United States, the Russian Federation, India, Japan, and the European Union accounted for approximately 62% of the total global emissions, or approximately 34,472 MMT CO_2e (PBL 2020).

Per the EPA's Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990–2019 (EPA 2021), total United States GHG emissions were approximately 6,558.3 million metric tons (MMT) CO_2e in 2019 (EPA 2021). The primary GHG emitted by human activities in the United States was CO_2, which represented approximately 80.1% of total GHG emissions (5,255.8 MMT CO_2e). The largest source of CO_2, and of overall GHG emissions, was fossil-fuel combustion, which accounted for approximately 92.4% of CO_2 emissions in 2019 (4,856.7 MMT CO_2e). Relative to 1990, gross United States GHG emissions in 2019 were 1.8% higher; however, the gross emissions were down from a high of 15.6% above 1990 levels in 2007. GHG emissions decreased from 2018 to 2019 by 1.7% (113.1 MMT CO_2e) and overall, net emissions in 2019 were 13% below 2005 levels (EPA 2021).

According to California's 2000–2019 GHG emissions inventory (2021 edition), California emitted 418 MMT CO_2e in 2019, including emissions resulting from out-of-state electrical generation (CARB 2021a). The sources of GHG emissions in California include transportation, industry, electric power production from both in-state and out-of-state sources, residential and commercial activities, agriculture, high GWP substances, and recycling and waste. The California GHG emission source categories and their relative contributions in 2019 are presented in Table 15, Greenhouse Gas Emissions Sources in California.

Table 15. Greenhouse Gas Emissions Sources in California

Source Category	Annual GHG Emissions (MMT CO_2e)	Percent of Total[a]
Transportation	166.1	39.7%
Industrial	88.2	21.1%
Electric power	58.8	14.1%
Commercial and Residential	43.8	10.5%
Agriculture	31.8	7.6%
High global-warming potential substances	20.6	4.9%
Recycling and waste	8.9	2.1%
Total	**418.2**	**100%**

Source: CARB 2021a.
Notes: GHG = greenhouse gas; MMT CO_2e = million metric tons of carbon dioxide equivalent.
Emissions reflect the 2018 California GHG inventory.

[a] Percentage of total has been rounded, and total may not sum due to rounding.

Between 2000 and 2019, per-capita GHG emissions in California have dropped from a peak of 14.0 MT CO_2e per person in 2001 to 10.5 MT CO_2e per person in 2019, representing an approximate 25% decrease. In addition, total GHG emissions in 2019 were approximately 7 MMT CO_2e lower than 2018 emissions (CARB 2021a).

3.3.2 Potential Effects of Climate Change

In California, climate change impacts have the potential to affect sea-level rise, agriculture, snowpack and water supply, forestry, wildfire risk, public health, 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 mean surface temperature for the decade 2006–2015 was 0.87°C (likely between 0.75°C and 0.99°C) 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. The Office of Environmental Health Hazard Assessment 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).

Warming temperatures and changing precipitation patterns have altered California's physical systems—the ocean, lakes, rivers and snowpack—upon which the state depends. Winter snowpack and spring snowmelt runoff from the Sierra Nevada and southern Cascade Mountains provide approximately one-third of the state's annual water supply. Impacts of climate on physical systems have been observed, such as high variability of snow-water content (i.e., amount of water stored in snowpack), decrease in snowmelt runoff, glacier change (loss in area), rise in sea levels, increase in average lake water temperature and coastal ocean temperature, and a decrease in dissolved oxygen in coastal waters (OEHHA 2018).

Impacts of climate change on biological systems, including humans, wildlife, and vegetation, have also been observed, including climate change impacts on terrestrial, marine, and freshwater ecosystems. As with global observations, species responses include those consistent with warming: elevational or latitudinal shifts in range, changes in the timing of key plant and animal life cycle events, and changes in the abundance of species and in community composition. Humans are better able to adapt to a changing climate than plants and animals in natural ecosystems. Nevertheless, climate change poses a threat to public health, as warming temperatures and changes in precipitation can affect vector-borne pathogen transmission and disease patterns in California as well as the variability of heat-related deaths and illnesses. In addition, since 1950, the area burned by wildfires each year has been increasing.

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. To address local and regional governments need for information to support action in their communities, the Fourth Assessment (CNRA 2018b) includes reports for nine regions of the state, including the San Joaquin Region, where the project is located. Key projected climate changes for the San Joaquin Region include the following (CNRA 2018b):

- Agriculture is one of the most vulnerable sectors under climate change due in part of more frequent and severe drought, as well as tighter water supply.
- Ecosystems in the San Joaquin Valley are highly vulnerable to climate change given existing anthropogenic stressors and the lack of organization of landscape-scale science, funding, and mitigation of adverse impacts within the region.
- Water resources within the San Joaquin Valley region will be severely impacted by climate change.
- Infrastructure in the San Joaquin Valley, including urban, water, and transportation systems may face increased stress from higher temperatures and extreme precipitation events, including droughts and floods.

Agriculture. Some of the specific challenges faced by the agricultural sector and farmers include more drastic and unpredictable precipitation and weather patterns; extreme weather events that range from severe flooding to extreme drought, to destructive storm events; significant shifts in water availably and water quality; changes in pollinator lifecycles; temperature fluctuations, including extreme heat stress and decreased chill hours; increased risks from invasive species and weeds, agricultural pests and plant diseases; and disruptions to the transportation and energy infrastructure supporting agricultural production.

Biodiversity and Habitat. Specific climate change challenges to biodiversity and habitat include species migration in response to climatic changes, range shift and novel combinations of species; pathogens, parasites and disease; invasive species; extinction risks; changes in the timing of seasonal life-cycle events; food web disruptions; threshold effects (i.e., a change in the ecosystem that results in a “tipping point” beyond which irreversible damage or loss has occurred).

Energy. Specific climate change challenges for the energy sector include temperature, fluctuating precipitation patterns, increasing extreme weather events, and sea-level rise.

Forestry. The most significant climate change related risk to forests is accelerated risk of wildfire and more frequent and severe droughts. Droughts have resulted in more large-scale mortalities and combined with increasing temperatures have led to an overall increase in wildfire risks. Increased wildfire intensity subsequently increases public safety risks, property damage, fire suppression and emergency response costs, watershed and water quality impacts, and vegetation conversions.

Ocean and Coastal Ecosystems and Resources. Sea-level rise, changing ocean conditions, and other climate change stressors are likely to exacerbate long-standing challenges related to ocean and coastal ecosystems in addition to threatening people and infrastructure located along the California coastline and in coastal communities. Sea-level rise, in addition to more frequent and severe coastal storms and erosion, are threatening vital

infrastructure such as roads, bridges, power plants, ports and airports, gasoline pipes, and emergency facilities, as well as negatively impacting the coastal recreational assets such as beaches and tidal wetlands.

Public Health. Climate change can impact public health through various environmental changes and is the largest threat to human health in the twenty-first century. Changes in precipitation patterns affect public health primarily through potential for altered water supplies, and extreme events such as heat, floods, droughts, and wildfires. Increased frequency, intensity, and duration of extreme heat and heat waves are likely to increase the risk of mortality due to heat-related illness, as well as exacerbate existing chronic health conditions. Other extreme weather events are likely to negatively impact air quality and increase or intensify respiratory illness, such as asthma and allergies.

Transportation. Although the transportation industry is a source of GHG emissions, it is also vulnerable to climate change risks. Increasing temperatures and extended periods of extreme heat threaten the integrity of the roadways and rail lines. High temperatures cause the road surfaces to expand, which leads to increased pressure and pavement buckling. High temperatures can also cause rail breakages, which could lead to train derailment. Other forms of extreme weather events, such as extreme storm events, can negatively impact infrastructure, which can impair movement of peoples and goods, or potentially block evacuation routes and emergency access roads. Increased wildfires, flooding, erosion risks, landslides, mudslides, and rockslides can all profoundly impact the transportation system and pose a serious risk to public safety.

Water. Climate change could seriously impact the timing, form, amount of precipitation, runoff patterns, and frequency and severity of precipitation events. Higher temperatures reduce the amount of snowpack and lead to earlier snowmelt, which can impact water supply availability, natural ecosystems, and winter recreation. Water supply availability during the intense dry summer months is heavily dependent on the snowpack accumulated during the wintertime. Increased risk of flooding has a variety of public health concerns, including water quality, public safety, property damage, displacement, and post-disaster mental health problems. Prolonged and intensified droughts can also negatively groundwater reserves and result in increased overdraft and subsidence. The higher risk of wildfires can lead to increased erosion, which can negatively impact watersheds and result in poor water quality.

3.4 Significance Criteria and Methodology

3.4.1 Thresholds of Significance

The significance criteria used to evaluate the project's GHG emissions impacts is based on the recommendations provided in Appendix G of the CEQA Guidelines. For the purposes of this GHG emissions analysis, the project would have a significant environmental impact if it would (14 CCR 15000 et seq.):

1. Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment?
2. Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs?

Global climate change is a cumulative impact; a project participates in this potential impact through its incremental contribution combined with the cumulative increase of all other sources of GHGs. There are currently no established thresholds for assessing whether the GHG emissions of a project, such as the proposed project, would be considered a cumulatively considerable contribution to global climate change; however, all reasonable efforts should be made to minimize a project's contribution to global climate change. In addition, while GHG impacts are

recognized exclusively as cumulative impacts (CAPCOA 2008), GHG emissions impacts must also be evaluated on a project-level under CEQA.

The CEQA Guidelines do not prescribe specific methodologies for performing an assessment, do not establish specific thresholds of significance, and do not mandate specific mitigation measures. Rather, the CEQA Guidelines emphasize the lead agency's discretion to determine the appropriate methodologies and thresholds of significance consistent with the manner in which other impact areas are handled in CEQA (CNRA 2009). The State of California has not adopted emission-based thresholds for GHG emissions under CEQA. The Governor's Office of Planning and Research's Technical Advisory, titled "Discussion Draft CEQA and Climate Change Advisory," states that (OPR 2018):

> Neither the CEQA statute nor the CEQA Guidelines prescribe thresholds of significance or particular methodologies for perming an impact analysis. This is left to lead agency judgment and discretion, based upon factual data and guidance from regulatory agencies and other sources where available and applicable. Even in the absence of clearly defined thresholds for GHG emissions, such emissions must be disclosed and mitigated to the extent feasible whenever the lead agency determines that the project contributes to a significant, cumulative climate change impact.

Furthermore, the advisory document indicates that "in the absence of regulatory standards for GHG emissions or other scientific data to clearly define what constitutes a 'significant impact,' individual lead agencies may undertake a project-by-project analysis, consistent with available guidance and current CEQA practice." Section 15064.7(c) of the CEQA Guidelines specifies that "when adopting thresholds of significance, a lead agency may consider thresholds of significance previously adopted or recommended by other public agencies, or recommended by experts, provided the decision of the lead agency to adopt such thresholds is supported by substantial evidence."

Notwithstanding the CEQA Guidelines, local land use agencies sought additional technical assistance from expert air quality agencies in how to complete the suggested quantitative analysis of the significance of GHG emissions for land use projects being considered under CEQA. The SJVAPCD adopted *Guidance for Valley Land-Use Agencies in Addressing GHG Emission Impacts for New projects under CEQA* (SJVAPCD 2009c). The guidance relies on either BPS or 29% reduction compared to BAU to assess significance of project specific GHG emissions on global climate change during the environmental review process. Notably, the project would not be considered a stationary project with applicable BPS. Regarding the BAU threshold, the Supreme Court in its 2015 decision, *Center for Biological Diversity v. Department of Fish and Wildlife*, S217763 (*Newhall*), concluded that substantial evidence is required to support the application of AB 32 statewide GHG reduction goal of 29% to new land use projects. Since neither the BPS nor BAU approach is generally appropriate for this project, the SJVAPCD guidance was not used for this analysis. However, the SJVAPCD guidance does not limit a lead agency's authority in establishing its own process and guidance for determining significance of project-related impacts on global climate change.

In absence of any applicable numeric threshold, this analysis assesses compliance with applicable plans, policies, regulations, and requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions. As a land use development project, the most directly applicable adopted regulatory plan to reduce GHG emissions is the FCOG 2022 RTP/SCS, which is designed to achieve regional GHG reductions from the land use and transportation sectors as required by SB 375 and the state's long-term climate goals. This analysis also considers consistency with regulations and requirements adopted

pursuant to the Scoping Plan and the County's General Plan. GHG emissions from project construction and operation are included for disclosure consistent with OPR recommendations and industry practice.

3.4.2 Approach and Methodology

3.4.2.1 Construction

CalEEMod Version 2022.1.1.29 was used to estimate potential project-generated GHG emissions during construction. Construction of the project would result in GHG emissions primarily associated with use of off-road construction equipment, on-road hauling and vendor (material delivery) trucks, and worker vehicles. All details for construction criteria air pollutants discussed in Section 2.4.2.1, are also applicable for the estimation of construction-related GHG emissions. As such, see Section 2.4.2.1 for a discussion of construction emissions calculation methodology and assumptions.

3.4.2.2 Operation

Emissions from the operational phase of the project were estimated using CalEEMod Version 2020.4.0. Operational year 2028 was assumed consistent with completion of project construction. CalEEMod was used to estimate potential project-generated operational GHG emissions from area sources, energy sources (electricity), mobile, solid waste, water supply and wastewater treatment. Emissions from each category are discussed in the following text with respect to the project. For additional details, see Section 2.4.2.2, Operational Emissions, for a discussion of operational emission calculation methodology and assumptions, specifically for area, energy (electricity), and mobile sources.

Area Sources

During operations and maintenance, one of the main sources of GHG emissions would be fugitive emissions from equipment containing SF_6 gas installed at the proposed collector substation. SF_6 has a GWP of 23,900 using CO_2 at a reference value of 1 (IPCC 2007). The substation would include 138 kilovolt (kV) breakers that would contain SF_6 gas. It is estimated that the project would maintain a total of 240 pounds of SF_6 gas at the substation. Although leakage is unlikely, for the purposes of the project's emissions inventory, it was assumed that the breakers would have a maximum annual leak rate of 0.5% in accordance with the Institute of Electrical and Electronics Engineers (IEEE) PC37.122 - Standard for High Voltage Gas-Insulated Substations Rated Above 52 kV (IEEE 2018). Emissions from SF_6 gas are included as part of area source emissions.

Energy Sources

The estimation of operational energy emissions was based on CalEEMod land use defaults and total area (i.e., square footage) of the project's land use. The project would not use natural gas during operation. CalEEMod default assumptions for the electricity demand for the operations and maintenance building was assumed. There would be energy loss during charging of the BESS due to auxiliary loads and transmission losses. As the BESS is contractually limited to charging on average once daily over a year, it was assumed that the BESS would be charged and discharged once per day. An auxiliary load of 3% was conservatively assumed. Conservatively, for calculation purposes, it was assumed that the BESS would be only charged from the grid and not from the onsite solar. This is a highly unlikely scenario but presents a worst-case scenario for estimating GHG emissions. The default emissions factors for PG&E were

assumed, which are from 2019. It should be noted that this is conservative as the GHG emission factor for PG&E has decreased over 95% as reported for 2023 (CEC 2023).

Mobile Sources

All details for criteria air pollutants discussed in Section 2.4.2.2 are also applicable for the estimation of operational mobile source GHG emissions. Mobile sources for the project would primarily be motor vehicles (automobiles, light-duty trucks, and heavy-duty trucks)[11] traveling to and from the project site. As discussed in Section 2.4.2.2, emissions from the mobile sources during operation of the project were estimated using CalEEMod.

Refrigerants

CalEEMod was utilized to estimate fugitive GHG emissions from refrigerants used for air conditioning and refrigeration equipment. The BESS uses air conditioning equipment to control the temperatures inside the enclosures. Different types of refrigeration equipment are utilized for different types of land uses and CalEEMod generates default refrigerant values based on land use subtype and industry data from the U.S. Environmental Protection Agency (USEPA). CalEEMod quantifies refrigerant emissions from leaks during regular operation and routine servicing over the equipment lifetime and then derives average annual emissions from the lifetime estimate but does not quantify emissions from the disposal of refrigeration and air conditioning equipment at the end of its lifetime.

Most of the refrigerants used today are HFCs or blends thereof, which can have high GWP values. However, California is required to reduce HFC emissions 40% below 2013 levels by 2030 under SB1383, and regulations have been adopted to place GWP limits on HFCs, such as SB 120.

Solid Waste

The project would generate solid waste, and therefore, result in CO_2e emissions associated with landfill off-gassing. CalEEMod default values for solid waste generation were used to estimate GHG emissions associated with solid waste.

Water and Wastewater

Supply, conveyance, treatment, and distribution of water for the Project require the use of electricity, which would result in associated indirect GHG emissions. The O&M building was assumed to have an onsite septic system. The water use during construction was added to operation to amortize the emissions over the operational period, 33.2 acre-feet per year (14 acre-feet from operation and 19.2 acre-feet from amortized construction and decommissioning). Water was assumed to be delivered by truck from the Westlands Water District or from an onsite well. The electricity consumption from water use was estimated using CalEEMod default values for the Project.

[11] "Heavy-duty trucks" include medium-heavy-duty trucks (3-axle) and heavy-heavy-duty trucks (4+-axle).

3.5 Impact Analysis

3.5.1 Would the Project Generate Greenhouse Gas Emissions, Either Directly or Indirectly, that May Have a Significant Impact on the Environment?

3.5.2 Would the Project Conflict with an Applicable Plan, Policy, or Regulation Adopted for the Purpose of Reducing the Emissions of Greenhouse Gases?

Construction Emissions

Construction of the project would result in GHG emissions, which are primarily associated with the use of off-road construction equipment, haul trucks, on-road vendor trucks, and worker vehicles.

CalEEMod was used to calculate the annual GHG emissions based on the construction scenario described in Section 2.4.2.1. Construction of the project is anticipated to commence in December 2026 and would last approximately 18 months, ending in May 2028. On-site sources of GHG emissions include off-road equipment and off-site sources include vendor trucks and worker vehicles. Table 16 presents construction emissions for the project from on-site and off-site emission sources.

Table 16. Estimated Annual Construction Greenhouse Gas Emissions – Unmitigated

Year	CO2	CH4	N2O	CO2e
	Metric Tons Per Year			
2026	131.98	<0.01	<0.01	133.11
2027	3,308.88	0.07	0.11	3,347.01
2028	2,752.97	0.04	0.09	2,784.19
2050	280.08	<0.01	0.02	286.88
			Total	6,551.18
			Amortized over 30 years	218.37

Notes: CO_2 = carbon dioxide; CH_4 = methane; N_2O = nitrous oxide; CO_2e = carbon dioxide equivalent; <0.01 = reported value less than 0.005.
See Appendix A for complete results.
The values shown are the annual emissions reflect California Emissions Estimator Model "mitigated" output.
Totals may not add due to rounding.

As shown in Table 16, the estimated total GHG emissions during construction of would be approximately 6,551 MT CO_2e over the construction period. Estimated project-generated construction emissions amortized over 30 years would be approximately 218 MT CO_2e per year. As with project-generated construction criteria air pollutant emissions, GHG emissions generated during construction of the project would be short-term in nature, lasting only for the duration of the construction period, and would not represent a long-term source of GHG emissions.

Operational Emissions

Operation of the project would generate GHG emissions through passenger vehicle and delivery truck trips to and from the project site; landscape maintenance equipment operation; solid waste disposal; water use; and on-site septic system. CalEEMod and a spreadsheet model were used to calculate the annual GHG emissions based on the operational assumptions described in Section 3.4.2.2, Operation. The estimated operational project-generated GHG emissions are shown in Table 17.

Table 17. Estimated Annual Operational Greenhouse Gas Emissions

Emission Source	CO2	CH4	N2O	CO2e
	Metric Tons Per Year			
Area[1]	-	-	-	13.01
Energy	1,222.41	0.20	0.02	1,234.50
Mobile	39.26	<0.01	<0.01	39.63
Refrigerants	-	-	-	0.13
Solid waste	0.33	0.03	-	1.16
Water supply and wastewater	1.98	0.16	<0.01	6.09
Amortized 30-Year Construction Emissions				*218.37*
Operation plus Amortized Construction Total				**1,512.89**

Notes: CO_2 = carbon dioxide; CH_4 = methane; N_2O = nitrous oxide; CO_2e = carbon dioxide equivalent; < 0.01 = reported emissions less than 0.005; - = no emissions.
See Appendix A for complete results.
Totals may not add due to rounding.
[1] Includes CO_2e emissions from SF_6 leakage from the substation.

As shown in Table 18, estimated annual project-generated GHG emissions would be approximately 1,513 MT CO_2e per year as a result of project operations and amortized construction.

Avoided GHG Emissions

As noted above, the Proposed project would generate 1,513 MT CO_2e per year. The default CalEEMod CO_2e emission factor for PG&E was 206.00 pounds of CO_2e per megawatt-hour (CO_2e/MWh) from 2019 (CAPCOA 2025). Assuming that PG&E would meet the EO B-55- 18 carbon neutrality target in 2045, a linear regression of the PG&E GHG emission factor was calculated from 2021 to 2044. This would mean that the Proposed project would avoid less GHG emissions over time in this scenario. Assuming this, the Proposed project would avoid a total of 276,717 MT CO_2e from 2028 through 2044. Accounting for 30 years of operation, the project would emit 45,390 MT CO_2e. Therefore, the project would avoid a net 231,327 MT CO_2e over its lifetime. The Proposed project is expected to be operational through 2058 and thus it would not be avoiding GHG emissions from 2045 through 2058 in this scenario. Therefore, even in this most conservative analysis, the project would avoid more GHG emissions than it would emit.

Project Consistency with Applicable GHG-Related Laws and Regulations

The project's consistency with statewide GHG reduction strategies is summarized in detail in Table 18.

Table 18. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for project
Building Components/Facility Operations		
Roofs/Ceilings/ Insulation	CALGreen Code (Title 24, Part 11) California Energy Code (Title 24, Part 6)	The project must comply with efficiency standards regarding roofing, ceilings, and insulation. For example: Roofs/Ceilings: New construction must reduce roof heat island effects per CALGreen Code Section 106.11.2, which requires use of roofing materials having a minimum aged solar reflectance, thermal emittance complying with Section A5.106.11.2.2 and A5.106.11.2.3 or a minimum aged Solar Reflectance Index as specified in Tables A5.106.11.2.2, or A5.106.11.2.3. Roofing materials must also meet solar reflectance and thermal emittance standards contained in Title 20 Standards. Roof/Ceiling Insulation: There are also requirements for the installation of roofing and ceiling insulation. (See Title 24, Part 6 Compliance Manual at Section 3.2.2.)
Flooring	CALGreen Code	The project must comply with efficiency standards regarding flooring materials. For example, for 80% of floor area must receive "resilient flooring," the flooring must meet applicable installation and material requirements contained in CALGreen Code Section 5.504.4.6.
Window and Doors (Fenestration)	California Energy Code	The project must comply with fenestration efficiency requirements. For example, the choice of windows, glazed doors, and any skylights for the project must conform to energy consumption requirements affecting size, orientation, and types of fenestration products used. (See Title 24, Part 6 Compliance Manual, Section 3.3.)
Building Walls/ Insulation	CALGreen Code California Energy Code	The project must comply with efficiency requirements for building walls and insulation. Exterior Walls: Must meet requirements in current edition of California Energy Code and comply with Sections A5.106.7.1 or A5.106.7.2 of CALGreen Code for wall surfaces, as well as Section 5.407.1, which requires weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1403.2. Construction must also meet requirements contained in Title 24, Part 6, which vary by material of the exterior walls. (See Title 24, Part 6 Compliance Manual, Part 3.2.3.) Demising (Interior) Walls: Mandatory insulation requirements for demising walls (which separate conditioned from non-conditions space) differ by the type of wall material used. (*Id*. at 3.2.4.) Door Insulation: There are mandatory requirements for air infiltration rates to improve insulation efficiency; they differ according to the type of door. (*Id*. at 3.2.5.) Flooring Insulation: There are mandatory requirements for insulation that depend on the material and location of the flooring. (Id. at 3.2.6.)

Table 18. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for project
Finish Materials	CALGreen Code	The project must comply with pollutant control requirements for finish materials. For example, materials including adhesives, sealants, caulks, paints and coatings, carpet systems, and composite wood products must meet requirements in CALGreen Code to ensure pollutant control. (CALGreen Code Section 5.504.4.)
Wet Appliances (Toilets/Faucets/Urinal, Dishwasher/Clothes Washer, Spa and Pool/ Water Heater)	CALGreen Code California Energy Code Appliance Efficiency Regulations (Title 20 Standards)	Wet appliances associated with the project must meet various efficiency requirements. For example: Spa and Pool: Use associated with the project is subject to appliance efficiency requirements for service water heating systems and equipment, spa and pool heating systems and equipment. (Title 24, Part 6, Sections 110.3, 110.4, 110.5; Title 20 Standards, Sections 1605.1(g), 1605.3(g); see also California Energy Code.) Toilets/Faucets/Urinals: Use associated with the project is subject to new maximum rates for toilets, urinals, and faucets effective January 1, 2016: Showerheads maximum flow rate 2.5 gpm at 80 psi Wash fountains 2.2 × (rim space in inches/20) gpm at 60 psi Metering faucets 0.25 gallons/cycle Lavatory faucets and aerators 1.2 gpm at 60 psi Kitchen faucets and aerators 1.8 gpm with optional temporary flow of 2.2 gpm at 60 psi Public lavatory faucets 0.5 gpm at 60 psi Trough-type urinals 16 inches length Wall mounted urinals 0.125 gallons per flush Other urinals 0.5 gallons per flush (Title 20 Standards, Sections 1605.1(h),(i) 1065.3(h),(i).) Water Heaters: Use associated with the project is subject to appliance efficiency requirements for water heaters. (Title 20 Standards, Sections 1605.1(f), 1605.3(f).) Dishwasher/Clothes Washer: Use associated with the project is subject to appliance efficiency requirements for dishwashers and clothes washers. (Title 20 Standards, Sections 1605.1(o),(p),(q), 1605.3(o),(p),(q).)

Table 18. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for project
Dry Appliances (Refrigerator/Freezer, Heater/Air Conditioner, Clothes Dryer)	Title 20 Standards CALGreen Code	Dry appliances associated with the project must meet various efficiency requirements. For example: Refrigerator/Freezer: Use associated with the project is subject to appliance efficiency requirements for refrigerators and freezers. (Title 20 Standards, Sections 1605.1(a), 1605.3(a).) Heater/Air Conditioner: Use associated with the project is subject to appliance efficiency requirements for heaters and air conditioners. (Title 20 Standards, Sections 1605.1(b),(c),(d),(e), 1605.3(b),(c),(d),(e) as applicable.) Clothes Dryer: Use associated with the project is subject to appliance efficiency requirements for clothes dryers. (Title 20 Standards, Section 1605.1(q).)
	CALGreen Code	Installations of HVAC, refrigeration and fire suppression equipment must comply with CALGreen Code Sections 5.508.1.1 and 508.1.2, which prohibits CFCs, halons, and certain HCFCs and HFCs.
Lighting	Title 20 Standards	Lighting associated with the project will be subject to energy efficiency requirements contained in Title 20 Standards. General Lighting: Indoor and outdoor lighting associated with the project must comply with applicable appliance efficiency regulations (Title 20 Standards, Sections 1605.1(j),(k),(n), 1605.3(j),(k),(n).) Emergency lighting and self-contained lighting: the project must also comply with applicable appliance efficiency regulations (Title 20 Standards, Sections 1605.1(l), 1605.3(l).) Traffic Signal Lighting: For any necessary project improvements involving traffic lighting, traffic signal modules and traffic signal lamps will need to comply with applicable appliance efficiency regulations (Title 20 Standards, Sections 1605.1(m), 1605.3(m).)
	California Energy Code	Lighting associated with the project will also be subject to energy efficiency requirements contained in Title 24, Part 6, which contains energy standards for non-residential indoor lighting and outdoor lighting. (See Title 24 Part 6 Compliance Manual, at Sections 5, 6.) Mandatory lighting controls for indoor lighting include, for example, regulations for automatic shut-off, automatic daytime controls, demand responsive controls, and certificates of installation. (Id. at Section 5.) Regulations for outdoor lighting include, for example, creation of lighting zones, lighting power requirements, a hardscape lighting power allowance, requirements for outdoor incandescent and luminaire lighting, and lighting control functionality. (Id. at Section 6.)

Table 18. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for project
	AB 1109	Lighting associated with the project will be subject to energy efficiency requirements adopted pursuant to AB 1109. Enacted in 2007, AB 1109 required the CEC to adopt minimum energy efficiency standards for general purpose lighting, to reduce electricity consumption 25% for indoor commercial lighting.
Bicycle and Vehicle Parking	CALGreen Code	The project will be required to provide compliant bicycle parking, fuel-efficient vehicle parking, and electric vehicle charging spaces (CALGreen Code Sections 5.106.4, 5.106.5.1, 5.106.5.3)
	California Energy Code	The project is also subject to parking requirements contained in Title 24, Party 6. For example, parking capacity is to meet but not exceed minimum local zoning requirements, and the project should employ approved strategies to reduce parking capacity (Title 24, Part 6, section 106.6)
Landscaping	CALGreen Code	The CALGreen Code requires and has further voluntary provisions for: ▪ - A water budget for landscape irrigation use; ▪ - For new water service, separate meters or submeters must be installed for indoor and outdoor potable water use for landscaped areas of 1,000-5,000 square feet; ▪ - Provide water-efficient landscape design that reduces use of potable water beyond initial requirements for plant installation and establishment
	Model Water Efficient Landscaping Ordinance	The model ordinance promotes efficient landscaping in new developments and establishes an outdoor water budget for new and renovated landscaped areas that are 500 square feet or larger. (CCR, Title 23, Division 2, Chapter 2.7.)
	Cap-and-Trade Program	Transportation fuels used in landscape maintenance equipment (e.g., gasoline) would be subject to the Cap-and-Trade Program. (See “Energy Use,” below.)
Refrigerants	CARB Management of High GWP Refrigerants for Stationary Sources	Any refrigerants associated with the project will be subject to CARB standards. CARB’s Regulation for the Management of High GWP Refrigerants for Stationary Sources 1) reduces emissions of high-GWP refrigerants from leaky stationary, non-residential refrigeration equipment; 2) reduces emissions resulting from the installation and servicing of stationary refrigeration and air conditioning appliances using high-GWP refrigerants; and 3) requires verification GHG emission reductions. (CCR, Title 17, Division 3, Chapter 1, Subchapter 10, Article 4, Subarticle 5.1, Section 95380 et seq.)
Consumer Products	CARB High GWP GHGs in Consumer Products	All consumer products associated with the project will be subject to CARB standards. CARB’s consumer products regulations set VOC limits for numerous categories of consumer products and limits the reactivity of the ingredients used in numerous categories of aerosol coating products (CCR, Title 17, Division 3, Chapter 1, Subchapter 8.5.)

Table 18. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for project
Construction		
Use of Off-Road Diesel Engines, Vehicles, and Equipment	CARB In-Use Off-Road Diesel Vehicle Regulation	Any relevant vehicle or machine use associated with the project will be subject to CARB standards. The CARB In-Use-Off-Road Diesel Vehicle Regulation applies to certain off-road diesel engines, vehicles, or equipment greater than 25 horsepower. The regulation: 1) imposes limits on idling, requires a written idling policy, and requires a disclosure when selling vehicles; 2) requires all vehicles to be reported to CARB (using the Diesel Off-Road Online Reporting System) and labeled; 3) restricts the adding of older vehicles into fleets starting on January 1, 2014; and 4) requires fleets to reduce their emissions by retiring, replacing, or repowering older engines, or installing Verified Diesel Emission Control Strategies (i.e., exhaust retrofits). The requirements and compliance dates of the Off-Road regulation vary by fleet size, as defined by the regulation.
	Cap-and-Trade Program	Transportation fuels (e.g., gasoline) used in equipment operation would be subject to the Cap-and-Trade Program. (See "Energy Use," below.)
Greening New Construction	CALGreen Code	All new construction, including the project, must comply with CALGreen Code, as discussed in more detail throughout this table. Adoption of the mandatory CALGreen Code standards for construction has been essential for improving the overall environmental performance of new buildings; it also sets voluntary targets for builders to exceed the mandatory requirements.
Construction Waste	CALGreen Code	The project will be subject to CALGreen Code requirements for construction waste reduction, disposal, and recycling, such as a requirement to recycle and/or salvage for reuse a minimum of 50% of the non-hazardous construction waste in accordance with Section 5.408.1.1, 5.408.1.2, or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.
Worker, vendor and truck vehicle trips (on-road vehicles)	Cap-and-Trade Program	Transportation fuels (e.g., gasoline) used in worker, vendor and truck vehicle trips would be subject to the Cap-and-Trade Program.

Table 18. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for project
Solid Waste		
Solid Waste Management	Landfill Methane Control Measure	Waste associated with the project will be disposed per state requirements for landfills, material recovery facilities, and transfer stations. Per the statewide GHG emissions inventory, the largest emissions from waste management sectors come from landfills, and are in the form of CH_4. In 2010, CARB adopted a regulation that reduces emissions from methane in landfills, primarily by requiring owners and operators of certain uncontrolled municipal solid waste landfills to install gas collection and control systems, and requires existing and newly installed gas and control systems to operate in an optimal manner. The regulation allows local air districts to voluntarily enter into a memorandum of understanding with CARB to implement and enforce the regulation and to assess fees to cover costs of implementation.
	Mandatory Commercial Recycling (AB 341)	AB 341 will require the project, if it generates four cubic yards or more of commercial solid waste per week, to arrange for recycling services, using one of the following: self-haul; subscribe to a hauler(s); arranging for pickup of recyclable materials; subscribing to a recycling service that may include mixed waste processing that yields diversion results comparable to source separation. The project will also be subject to local commercial solid waste recycling program required to be implemented by each jurisdiction under AB 341.
	CALGreen Code	The project will be subject to CALGreen Code requirement to provide areas that serve the entire building and are identified for the depositing, storage and collection of nonhazardous materials for recycling (CALGreen Code Section 5.410.1)
Energy Use		
Electricity/Natural Gas Generation	Cap-and-Trade Program	Electricity and natural gas usage associated with the project will be subject to the Cap-and-Trade Program. The rules came into effect on January 1, 2013, applying to large electric power plants and large industrial plants. In 2015, importers and distributors of fossil fuels were added to the Cap-and-Trade Program in the second phase. Specifically, on January 1, 2015, cap-and-trade compliance obligations were phased in for suppliers of natural gas, reformulated gasoline blendstock for oxygenate blending (RBOB), distillate fuel oils, and liquefied petroleum gas that meet or exceed specified emissions thresholds. The threshold that triggers a cap-and-trade compliance obligation for a fuel supplier is 25,000 metric tons or more of CO_2e annually from the GHG emissions that would result from full combustion or oxidation of quantities of fuels (including natural gas, RBOB, distillate fuel oil,

Table 18. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for project
		liquefied petroleum gas, and blended fuels that contain these fuels) imported and/or delivered to California.
Renewable Energy	California RPS (SB X1-2, SB 350, and SB 100)	Energy providers associated with the project will be required to comply with RPS set by SB X1 2, SB 350, and SB 100. SB X1 2 requires investor-owned utilities, publicly-owned utilities, and electric service providers to increase purchases of renewable energy such that at least 33% of retail sales are procured from renewable energy resources by December 31, 2020. In the interim, each entity was required to procure an average of 20% of renewable energy for the period of January 1, 2011 through December 31, 2013; and will be required to procure an average of 25% by December 31, 2016, and 33% by 2020. SB 350 requires retail sellers and publicly owned utilities to procure 50% of their electricity from eligible renewable energy resources by 2030. SB 100 increased the standards set forth in SB 350 establishing that 44% of the total electricity sold to retail customers in California per year by December 31, 2024, 52% by December 31, 2027, and 60% by December 31, 2030, be secured from qualifying renewable energy sources. 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 by 2045.
	Million Solar Roofs Program (SB 1)	The project will participate in California's energy market, which is affected by implementation of the Million Solar Roofs Program. As part of Governor Schwarzenegger's Million Solar Roofs Program, California has set a goal to install 3,000 megawatts of new, solar capacity through 2016. The Million Solar Roofs Program is a ratepayer-financed incentive program aimed at transforming the market for rooftop solar systems by driving down costs over time.
	California Solar Initiative- Thermal Program	The project will participate in California's energy market, which is affected by implementation of the California Solar Initiative -Thermal Program. Multifamily and Commercial properties qualify for rebates of up to $800,000 on solar water heating systems and eligible solar pool heating systems qualify for rebates of up to $500,000. Funding for the California Solar Initiative-Thermal program comes from ratepayers of Pacific Gas and Electric, SCE, Southern California Gas Company, and San Diego Gas and Electric. The rebate program is overseen by the CPUC as part of the California Solar Initiative.

Table 18. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for project
	Waste Heat and Carbon Emissions Reduction Act (AB 1613, AB 2791)	The project will participate in California's energy market, which is affected by implementation of the Waste Heat and Carbon Emissions Reduction Act. Originally enacted in 2007 and in 2008, this act directed the CEC, CPUC, and CARB to implement a program that would encourage the amended development of new combined heat and power systems in California with a generating capacity of not more than 20 megawatts, to increase combined heat and power use by 30,000 gigawatt-hour. The CPUC publicly owned electric utilities, and CEC duly established policies and procedures for the purchase of electricity from eligible combined heat and power systems. CEC guidelines require combined heat and power systems to be designed to reduce waste energy; have a minimum efficiency of 60%; have NO_x emissions of no more than 0.07 pounds per megawatt-hour; be sized to meet eligible customer generation thermal load; operate continuously in a manner that meets expected thermal load and optimizes efficient use of waste heat; and be cost effective, technologically feasible, and environmentally beneficial.
Vehicular/Mobile Sources		
General	SB 375 and SJCOG RTP/SCS	The project complies with, and is subject to, the SJCOG adopted RTP/SCS in 2018.
Fuel	Low Carbon Fuel Standard (LCFS)/ EO S-01-07	Auto trips associated with the project will be subject to LCFS (EO S-01-07), which requires a 10% or greater reduction in the average fuel carbon intensity by 2020 with a 2010 baseline for transportation fuels in California regulated by CARB. The program establishes a strong framework to promote the low carbon fuel adoption necessary to achieve the Governor's 2030 and 2050 GHG goals.
	Cap-and-Trade Program	Use of gasoline associated with the project will be subject to the Cap-and-Trade Program. The rules came into effect on January 1, 2013, applying to large electric power plants and large industrial plants. In 2015, importers and distributors of fossil fuels were added to the Cap-and-Trade Program in the second phase. Specifically, on January 1, 2015, cap-and-trade compliance obligations were phased in for suppliers of natural gas, RBOB, distillate fuel oils, and liquefied petroleum gas that meet or exceed specified emissions thresholds. The threshold that triggers a cap-and-trade compliance obligation for a fuel supplier is 25,000 MT or more of CO_2e annually from the GHG emissions that would result from full combustion or oxidation of quantities of fuels (including natural gas, RBOB, distillate fuel oil, liquefied petroleum gas, and blended fuels that contain these fuels) imported and/or delivered to California.

Table 18. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for project
Automotive Refrigerants	CARB Regulation for Small Containers of Automotive Refrigerant	Vehicles associated with the project will be subject to CARB's Regulation for Small Containers of Automotive Refrigerant. (CCR, Title 17, Division 3, Chapter 1, Subchapter 10, Article 4, Subarticle 5, Section 95360 et seq.) The regulation applies to the sale, use, and disposal of small containers of automotive refrigerant with a GWP greater than 150. The regulation achieves emission reductions through implementation of four requirements: 1) use of a self-sealing valve on the container, 2) improved labeling instructions, 3) a deposit and recycling program for small containers, and 4) an education program that emphasizes best practices for vehicle recharging. This regulation went into effect on January 1, 2010 with a one-year sell-through period for containers manufactured before January 1, 2010. The target recycle rate is initially set at 90%, and rises to 95% beginning January 1, 2012.
Light-Duty Vehicles	AB 1493 (or the Pavley Standard)	Cars that drive to and from the project will be subject to AB 1493, which directed CARB to adopt a regulation requiring the maximum feasible and cost-effective reduction of GHG emissions from new passenger vehicles. Pursuant to AB 1493, CARB adopted regulations that establish a declining fleet average standard for CO_2, CH_4, N_2O, and HFCs (air conditioner refrigerants) in new passenger vehicles and light-duty trucks beginning with the 2009 model year and phased-in through the 2016 model year. These standards are divided into those applicable to lighter and those applicable to heavier portions of the passenger vehicle fleet. The regulations will reduce "upstream" smog-forming emissions from refining, marketing, and distribution of fuel.
	Advanced Clean Car and ZEV Programs	Cars that drive to and from the project will be subject to the Advanced Clean Car and ZEV Programs. In January 2012, CARB approved a new emissions-control program for model years 2017 through 2025. The program combines the control of smog, soot and global warming gases and requirements for greater numbers of zero-emission vehicles into a single package of standards called Advanced Clean Cars. By 2025, new automobiles will emit 34% fewer global warming gases and 75% fewer smog-forming emissions. 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.

Table 18. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for project
	Tire Inflation Regulation	Cars that drive to and from the project will be subject to the CARB Tire Inflation Regulation, which took effect on September 1, 2010, and applies to vehicles with a gross vehicle weight rating of 10,000 pounds or less. Under this regulation, automotive service providers must, inter alia, check and inflate each vehicle's tires to the recommended tire pressure rating, with air or nitrogen, as appropriate, at the time of performing any automotive maintenance or repair service, and to keep a copy of the service invoice for a minimum of three years, and make the vehicle service invoice available to the CARB, or its authorized representative upon request.
	EPA and NHTSA GHG and CAFE standards.	Mobile sources that travel to and from the project would be subject to EPA and NHTSA GHG and CAFE standards for passenger cars, light-duty trucks, and medium-duty passenger vehicles. (75 FR 25324–25728 and 77 FR 62624–63200.)
Medium- and Heavy-Duty Vehicles	CARB In-Use On-Road Heavy-Duty Diesel Vehicles Regulation (Truck and Bus Regulation)	Any heavy-duty trucks associated with the project will be subject to CARB standards. The regulation requires diesel trucks and buses that operate in California to be upgraded to reduce emissions. Newer heavier trucks and buses must meet PM filter requirements. Lighter and older heavier trucks must be replaced starting January 1, 2015. By January 1, 2023, nearly all trucks and buses will need to have 2010 model year engines or equivalent. The regulation applies to nearly all privately and federally owned diesel fueled trucks and buses and to privately and publicly owned school buses with a gross vehicle weight rating greater than 14,000 pounds.
	CARB In-Use Off-Road Diesel Vehicle Regulation	Any relevant vehicle or machine use associated with the project will be subject to CARB standards. The CARB In-Use-Off-Road Diesel Vehicle Regulation applies to certain off-road diesel engines, vehicles, or equipment greater than 25 horsepower. The regulations: 1) imposes limits on idling, requires a written idling policy, and requires a disclosure when selling vehicles; 2) requires all vehicles to be reported to CARB (using the Diesel Off-Road Online Reporting System) and labeled; 3) restricts the adding of older vehicles into fleets starting on January 1, 2014; and 4) requires fleets to reduce their emissions by retiring, replacing, or repowering older engines, or installing Verified Diesel Emission Control Strategies (i.e., exhaust retrofits). The requirements and compliance dates of the Off-Road regulation vary by fleet size, as defined by the regulation.

Table 18. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for project
	Heavy-Duty Vehicle GHG Emission Reduction Regulation	Any relevant vehicle or machine use associated with the project will be subject to CARB standards. The CARB Heavy-Duty Vehicle GHG Emission Reduction Regulation applies to heavy-duty tractors that pull 53-foot or longer box-type trailers. (CCR, Title 17, Division 3, Chapter 1, Subchapter 10, Article 4, Subarticle 1, Section 95300 et seq.) Fuel efficiency is improved through improvements in tractor and trailer aerodynamics and the use of low rolling resistance tires.
	EPA and NHTSA GHG and CAFE standards.	Mobile sources that travel to and from the project would be subject to EPA and NHTSA GHG and CAFE standards for medium- and heavy-duty vehicles. (76 FR 57106–57513.)
Water Use		
Water Use Efficiency	Emergency State Water Board Regulations	Water use associated with the project will be subject to emergency regulations. On May 18, 2016, partially in response to EO B-27-16, the State Water Board adopted emergency water use regulations (CCR, title 23, Section 864.5 and amended and re-adopted Sections 863, 864, 865, and 866). The regulation directs the State Water Board, Department of Water Resources, and CPUC to implement rates and pricing structures to incentivize water conservation, and calls upon water suppliers, homeowners' associations, California businesses, landlords and tenants, and wholesale water agencies to take stronger conservation measures.
	EO B-37-16	Water use associated with the project will be subject to Emergency EO B-37-16, issued May 9, 2016, which directs the State Water Resources Control Board to adjust emergency water conservation regulations through the end of January, 2017 to reflect differing water supply conditions across the state. The Water Board must also develop a proposal to achieve a mandatory reduction of potable urban water usage that builds off the mandatory 25% reduction called for in EO B-29-15. The Water Board and Department of Water Resources will develop new, permanent water use targets to which the project will be subject. The Water Board will permanently prohibit water-wasting practices such as hosing off sidewalks, driveways, and other hardscapes; washing automobiles with hoses not equipped with a shut-off nozzle; using non-recirculated water in a fountain or other decorative water feature; watering lawns in a manner that causes runoff, or within 48 hours after measurable precipitation; and irrigating ornamental turf on public street medians.
	EO B-40-17	EO B-40-17 lifted the drought emergency in all California counties except Fresno, Kings, Tulare, and Tuolumne. It also rescinds EO B-29-15, but expressly states that EO B-37-16 remains in effect

Table 18. Applicable Greenhouse Gas-Related Laws and Regulations

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for project
		and directs the State Water Resources Control Board to continue development of permanent prohibitions on wasteful water use to which the project will be subject.
	SB X7-7	Water provided to the project will be affected by SB X7-7's requirements for water suppliers. SB X7-7, or the Water Conservation Act of 2009, requires all water suppliers to increase water use efficiency. It also requires, among other things, that the Department of Water Resources, in consultation with other state agencies, develop a single standardized water use reporting form, which would be used by both urban and agricultural water agencies.
	CALGreen Code	The project is subject to CALGreen Code's water efficiency standards, including a required 20% mandatory reduction in indoor water use. (CALGreen Code, Division 4.3.)
	California Water Code, Division 6, Part 2.10, Sections 10910–10915.	Development and approval of the project requires the development of a project-specific Water Supply Assessment.
	Cap-and-Trade Program	The project proposes utilization of a private well for water and an on-site septic system for sewage disposal. Thus, the Cap-and-Trade Program does not apply to the project.
	California RPS (SB X1-2, SB 350, SB 100)	Electricity usage associated with water and wastewater supply, treatment and distribution associated with the project will be required to comply with RPS set by SB X1-2, SB 350, and SB 100.

Notes: AB = Assembly Bill; CARB = California Air Resources Board; CEC = California Energy Commission; CFC = chlorofluorocarbon; CH_4 = methane; CO_2 = carbon dioxide; CO_2e = carbon dioxide equivalent; CPUC = California Public Utilities Commission; EO = Executive Order; EPA = Environmental Protection Agency; GHG = greenhouse gas; GWP = global warming potential; HCFC = hydrochlorofluorocarbon; HFC = hydrofluorocarbon; gpm = gallons per minute; MT = metric tons; N_2O = nitrous oxide; NHTSA = National Highway Traffic Safety Administration; PM = particulate matter; RPS = Renewable Portfolio Standard; RTP/SCS = Regional Transportation Plan/Sustainable Communities Strategy; SB = Senate Bill; SJCOG = San Joaquin Council of Governments; VOC = volatile organic compound; ZEV = zero emission vehicle.

As shown in Table 18, the project would be required to comply with the various GHG-reducing regulations.

Project Consistency with CARB's Scoping Plan

The Scoping Plan, approved by CARB in 2008 and updated in 2014, 2017, and 2022 provides a framework for actions to reduce California's GHG emissions and requires CARB and other state agencies to adopt regulations and other initiatives to reduce GHGs. As such, the Scoping Plan is not directly applicable to specific projects, nor is it intended to be used for project-level evaluations.[12] Under the Scoping Plan, however, there are several state regulatory measures aimed at the identification and reduction of GHG emissions. CARB and other state agencies have adopted many of the measures identified in the Scoping Plan. Most of these measures focus on area source emissions (e.g., energy usage, high-GWP GHGs in consumer products) and changes to the vehicle fleet (i.e., hybrid, electric, and more fuel-efficient vehicles) and associated fuels (e.g., Low-Carbon Fuel Standard), among others. The project would comply with all applicable regulations adopted in furtherance of the Scoping Plan to the extent required by law.

The Scoping Plan recommends strategies for implementation at the statewide level to meet the goals of AB 32 and establishes an overall framework for the measures that will be adopted to reduce California's GHG emissions. Table 19 highlights measures that have been developed under the Scoping Plan and the project's consistency with those measures. Table 19 also includes measures recommended in the Scoping Plan. To the extent that these regulations are applicable to the project, its inhabitants, or uses, the project would comply with all applicable regulations adopted in furtherance of the Scoping Plan.

[12] The Final Statement of Reasons for the amendments to the State CEQA Guidelines reiterates the statement in the Initial Statement of Reasons that "[t]he Scoping Plan may not be appropriate for use in determining the significance of individual projects because it is conceptual at this stage and relies on the future development of regulations to implement the strategies identified in the Scoping Plan" (CNRA 2009a).

Table 19. Project Consistency with Scoping Plan GHG Emission-Reduction Strategies

Scoping Plan Measure	Measure Number	Project Consistency
Transportation Sector		
Advanced Clean Cars	T-1	*Consistent.* The project's employees would purchase vehicles in compliance with CARB vehicle standards that are in effect at the time of vehicle purchase.
Low Carbon Fuel Standard	T-2	*Consistent.* Motor vehicles driven by the project's employees would use compliant fuels.
Low Carbon Fuel Standard (18% reduction in carbon intensity by 2030)	Recommended	*Consistent.* Motor vehicles driven by the project's employees would use compliant fuels.
Regional Transportation-Related GHG Targets	T-3	*Not applicable.* The Proposed project would not prevent CARB from implementing this measure.
Advanced Clean Transit	Recommended	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Last Mile Delivery	Recommended	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Reduction in Vehicle Miles Traveled	Recommended	*Not applicable.* The project would not prevent CARB from implementing this measure.
Vehicle Efficiency Measures 1. Tire Pressure 2. Fuel Efficiency Tire Program 3. Low-Friction Oil 4. Solar-Reflective Automotive Paint and Window Glazing	T-4	*Consistent.* These standards would be applicable to the light-duty vehicles that would access the project site. Motor vehicles driven by the project's employees would maintain proper tire pressure when their vehicles are serviced. The project's employees would replace tires in compliance with CARB vehicle standards that are in effect at the time of vehicle purchase. Motor vehicles driven by the project's employees would use low-friction oils when their vehicles are serviced. The project's employees would purchase vehicles in compliance with CARB vehicle standards that are in effect at the time of vehicle purchase. In addition, the project would not prevent CARB from implementing this measure.
Ship Electrification at Ports (Shore Power)	T-5	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.

Table 19. Project Consistency with Scoping Plan GHG Emission-Reduction Strategies

Scoping Plan Measure	Measure Number	Project Consistency
Goods Movement Efficiency Measures 1. Port Drayage Trucks 2. Transport Refrigeration Units Cold Storage Prohibition 3. Cargo Handling Equipment, Anti-Idling, Hybrid, Electrification 4. Goods Movement Systemwide Efficiency Improvements 5. Commercial Harbor Craft Maintenance and Design Efficiency 6. Clean Ships 7. Vessel Speed Reduction	T-6	*Not applicable.* The Proposed project would not prevent CARB from implementing this measure.
California Sustainable Freight Action Plan	Recommended	*Not applicable.* The Proposed project would not prevent CARB from implementing this measure.
Heavy-Duty Vehicle GHG Emission Reduction 1. Tractor-Trailer GHG Regulation 2. Heavy-Duty Greenhouse Gas Standards for New Vehicle and Engines (Phase I)	T-7	*Consistent.* Heavy-duty vehicles would be required to comply with CARB GHG reduction measures. In addition, the project would not prevent CARB from implementing this measure.
Medium- and Heavy-Duty Vehicle Hybridization Voucher Incentive project	T-8	*Consistent.* The project medium- and heavy-duty vehicles (e.g., delivery trucks) could take advantage of the vehicle hybridization action, which would reduce GHG emissions through increased fuel efficiency. In addition, the project would not prevent CARB from implementing this measure.
Medium and Heavy-Duty GHG Phase 2	Recommended	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
High-Speed Rail	T-9	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Transportation Electrification	2022 Appendix D	*Consistent.* The project would include EV charging infrastructure at the operations and maintenance building that meets the voluntary standard in the CalGreen Code at time of project approval.

Table 19. Project Consistency with Scoping Plan GHG Emission-Reduction Strategies

Scoping Plan Measure	Measure Number	Project Consistency
VMT Reduction		
Is located on infill sites that are surrounded by existing urban uses and reuses or redevelops previously undeveloped or underutilized land that is presently served by existing utilities and essential public services (e.g., transit, streets, water, sewer)	2022 Appendix D	*Consistent.* The Project site is located in the San Joaquin Valley, approximately 6.5 miles south of the City of Mendota, and immediately west of SR-33, in unincorporated Fresno County. The proposed Project site has historically been used for farming. The land has been retired from irrigated agriculture due to lack of drainage services and salt accumulation in the soil, and is subject to a legal covenant that precludes irrigation. The nature of the project type and amount of land required does not lend itself to urban infill. However, as discussed, it is located on previous agricultural land and not open green space.
Does not result in the loss or conversion of natural and working lands	2022 Appendix D	*Consistent.* The Project site has been retired from irrigated agriculture due to lack of drainage services and salt accumulation in the soil, and is subject to a legal covenant that precludes irrigation. Therefore, the site is no longer suitable for agriculture.
Consists of transit-supportive densities (minimum of 20 residential dwelling units per acre), or, Is in proximity to existing transit stops (within a half mile), or Satisfies more detailed and stringent criteria specified in the region's SCS.	2022 Appendix D	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Reduces parking requirements by: Eliminating parking requirements or including maximum allowable parking ratios (i.e., the ratio of parking spaces to residential units or square feet); or Providing residential parking supply at a ratio of less than one parking space per dwelling unit; or For multifamily residential development, requiring parking costs to be unbundled from costs to rent or own a residential unit.	2022 Appendix D	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.

Table 19. Project Consistency with Scoping Plan GHG Emission-Reduction Strategies

Scoping Plan Measure	Measure Number	Project Consistency
At least 20 percent of units included are affordable to lower-income residents	2022 Appendix D	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Results in no net loss of existing affordable units	2022 Appendix D	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Uses all-electric appliances without any natural gas connections and does not use propane or other fossil fuels for space heating, water heating, or indoor cooking	2022 Appendix D	*Consistent.* The operations and maintenance building will be all-electric. There will be no natural gas used onsite.
Electricity and Natural Gas Sector		
Energy Efficiency Measures (Electricity)	E-1	*Consistent.* The project will comply with current Title 24, Part 6, of the California Code of Regulations energy efficiency standards for electrical appliances and other devices at the time of building construction.
Energy Efficiency (Natural Gas)	CR-1	*Consistent.* The project would be all-electric and would not use natural gas during operation.
Solar Water Heating (California Solar Initiative Thermal Program)	CR-2	*Not applicable.* The project would not prevent CARB from implementing this measure.
Combined Heat and Power	E-2	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Renewable Portfolios Standard (33% by 2020)	E-3	*Consistent.* While the project would support this goal, the 2020 goal has passed and would no longer apply.
Renewable Portfolios Standard (50% by 2050)	Recommended	*Consistent.* The project would support the RPS goal by production of 300 MW of solar electricity.
Senate Bill 1 Million Solar Roofs (California Solar Initiative, New Solar Home Partnership, Public Utility Programs) and Earlier Solar Programs	E-4	*Not applicable.* The project would not prevent CARB from implementing this measure.
Water Sector		
Water Use Efficiency	W-1	*Not applicable.* The Proposed project would not prevent CARB from implementing this measure.

Table 19. Project Consistency with Scoping Plan GHG Emission-Reduction Strategies

Scoping Plan Measure	Measure Number	Project Consistency
Water Recycling	W-2	*Consistent.* Non-potable water would be used exclusively for dust suppression and panel washing.
Water System Energy Efficiency	W-3	*Not applicable.* This is applicable for the transmission and treatment of water, but it is not applicable for the project.
Reuse Urban Runoff	W-4	*Not applicable.* The reuse of urban water on site was determined to not be feasible. The project would not prevent CARB from implementing this measure.
Renewable Energy Production	W-5	*Not applicable.* Applicable for wastewater treatment systems. Not applicable for the project.
Green Buildings		
State Green Building Initiative: Leading the Way with State Buildings (Greening New and Existing State Buildings)	GB-1	*Not applicable.* The Proposed project would not prevent CARB from implementing this measure.
Green Building Standards Code (Greening New Public Schools, Residential and Commercial Buildings)	GB-2	*Not applicable.* The Proposed project would not prevent CARB from implementing this measure.
Beyond Code: Voluntary Programs at the Local Level (Greening New Public Schools, Residential and Commercial Buildings)	GB-3	*Consistent.* The project's operations and maintenance building would be built in accordance with Title 11 CalGreen standards in place at the time building permits are obtained.
Greening Existing Buildings (Greening Existing Homes and Commercial Buildings)	GB-4	*Not applicable.* The Proposed project would not prevent CARB from implementing this measure.
Industry Sector		
Energy Efficiency and Co-Benefits Audits for Large Industrial Sources	I-1	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Oil and Gas Extraction GHG Emission Reduction	I-2	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Reduce GHG Emissions by 20% in Oil Refinery Sector	Recommended	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
GHG Emissions Reduction from Natural Gas Transmission and Distribution	I-3	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Refinery Flare Recovery Process Improvements	I-4	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.

Table 19. Project Consistency with Scoping Plan GHG Emission-Reduction Strategies

Scoping Plan Measure	Measure Number	Project Consistency
Work with the local air districts to evaluate amendments to their existing leak detection and repair rules for industrial facilities to include methane leaks	I-5	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Recycling and Waste Management Sector		
Landfill Methane Control Measure	RW-1	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Increasing the Efficiency of Landfill Methane Capture	RW-2	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Mandatory Commercial Recycling	RW-3	*Consistent.* During both construction and operation of the project, the project would comply with all state regulations related to solid waste generation, storage, and disposal, including the California Integrated Waste Management Act, as amended. During construction, all wastes would be recycled to the maximum extent possible.
Increase Production and Markets for Compost and Other Organics	RW-4	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Anaerobic/Aerobic Digestion	RW-5	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Extended Producer Responsibility	RW-6	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Environmentally Preferable Purchasing	RW-7	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Forests Sector		
Sustainable Forest Target	F-1	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
High Global Warming Potential Gases Sector		
Motor Vehicle Air Conditioning Systems: Reduction of Refrigerant Emissions from Non-Professional Servicing	H-1	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
SF_6 Limits in Non-Utility and Non-Semiconductor Applications	H-2	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.

Table 19. Project Consistency with Scoping Plan GHG Emission-Reduction Strategies

Scoping Plan Measure	Measure Number	Project Consistency
Reduction of Perfluorocarbons in Semiconductor Manufacturing	H-3	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Limit High Global Warming Potential Use in Consumer Products	H-4	*Consistent.* The project's employees would use consumer products that would comply with the regulations that are in effect at the time of manufacture.
Air Conditioning Refrigerant Leak Test During Vehicle Smog Check	H-5	*Consistent.* Employees of the project would conduct air conditioning refrigerant leak tests during periodic vehicle smog checks.
Stationary Equipment Refrigerant Management Program – Refrigerant Tracking/Reporting/Repair Program	H-6	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Stationary Equipment Refrigerant Management Program – Specifications for Commercial and Industrial Refrigeration	H-6	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
SF_6 Leak Reduction Gas Insulated Switchgear	H-6	*Consistent.* The Proposed project would use gas insulated switchgear that would be subject to CARB regulations and meet the leak rate mandates.
40% reduction in methane and hydrofluorocarbon emissions	Recommended	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
50% reduction in black carbon emissions	Recommended	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.
Agriculture Sector		
Methane Capture at Large Dairies	A-1	*Not applicable.* This measure does not apply to the project. The project would not inhibit CARB from implementing this Scoping Plan Measure.

Source: CARB 2008, 2017b, 2022.
Notes: CARB = California Air Resources Board; EV = electric vehicle; GHG = greenhouse gas; project = 14800 W. Schulte Road Logistics Center project; SF_6 = sulfur hexafluoride

Based on the analysis in Table 19, the project would be consistent with the applicable strategies and measures in the Scoping Plan.

Project Consistency with Fresno Council of Government's Regional Transportation Plan/Sustainable Communities Strategy

The FCOG's RTP/SCS would also be considered an applicable plan adopted for the purpose of reducing GHGs from the land use and transportation sectors in Fresno County and was adopted after completion of a Program EIR, and approved by CARB in 2022 (FCOG 2022). Thus, a project could result in a significant impact due to a conflict with an applicable plan, policy, or regulation if it would be inconsistent with the adopted FCOG RTP/SCS. The GHG emission goals in the FCOG RTP/SCS are based on demographic data trends and projections that include household, employment, and total population statistics. Since the Solar Facility does not propose housing and would not result in a population increase, only the Solar Facility's contribution to employment needs to be considered.

The FCOG RTP/SCS estimates the total employment in Fresno County will be 69,700 in 2020 and 78,620 in 2030, or 8,920 additional jobs per year in that timeframe (FCOG 2022). The Solar Facility construction and decommissioning workforce employment would be temporary, lasting 18 months for construction, and is expected to come from the existing construction labor pool in Fresno County. The Solar Facility is anticipated to have up to 16 fulltime equivalent personnel starting in 2025. Therefore, the additional jobs projected for the Solar Facility would be well within the annual growth projection for the FCOG 2022 RTP/SCS. The Solar Facility would be consistent with the FCOG 2022 RTP/SCS, and impacts would be less than significant.

Project Consistency with Senate Bill 32 and Executive Order S-3-05

The project would not impede the attainment of the GHG reduction goals for 2030 or 2050 identified in EO S-3-05 and SB 32. As discussed in Section 3.2.2, EO S-3-05 establishes the following goals: GHG emissions should be reduced to 2000 levels by 2010, to 1990 levels by 2020, and to 80% below 1990 levels by 2050. SB 32 establishes for a statewide GHG emissions reduction target whereby CARB, in adopting rules and regulations to achieve the maximum technologically feasible and cost-effective GHG emissions reductions, shall ensure that statewide GHG emissions are reduced to at least 40% below 1990 levels by December 31, 2030. While there are no established protocols or thresholds of significance for that future year analysis, CARB forecasts that compliance with the current Scoping Plan puts the state on a trajectory of meeting these long-term GHG goals, although the specific path to compliance is unknown (CARB 2014a).

CARB has expressed optimism with regard to both the 2030 and 2050 goals. It states in the First Update to the Climate Change Scoping Plan that "California is on track to meet the near-term 2020 GHG emissions limit and is well positioned to maintain and continue reductions beyond 2020 as required by AB 32" (CARB 2014a). With regard to the 2050 target for reducing GHG emissions to 80% below 1990 levels, the First Update to the Climate Change Scoping Plan states the following (CARB 2014a):

> This level of reduction is achievable in California. In fact, if California realizes the expected benefits of existing policy goals (such as 12,000 megawatts of renewable distributed generation by 2020, net zero energy homes after 2020, existing building retrofits under AB 758, and others) it could reduce emissions by 2030 to levels squarely in line with those needed in the developed world and to stay on track to reduce emissions to 80% below 1990 levels by 2050. Additional measures,

> including locally driven measures and those necessary to meet federal air quality standards in 2032, could lead to even greater emission reductions.

In other words, CARB believes that the state is on a trajectory to meet the 2030 and 2050 GHG reduction targets set forth in AB 32, SB 32, and EO S-3-05. This is confirmed in the 2030 Scoping Plan, which states (CARB 2017b):

> The Scoping Plan builds upon the successful framework established by the Initial Scoping Plan and First Update, while identifying new, technologically feasible, and cost-effective strategies to ensure that California meets its GHG reduction targets in a way that promotes and rewards innovation, continues to foster economic growth, and delivers improvements to the environment and public health, including in disadvantaged communities.

Conclusion

The project is consistent with the Scoping Plan which promotes economic growth while achieving greater energy efficiency. The project would also be consistent with FCOG's 2022 RTP/SCS, SB 32, and EO S-3-05 by being consistent with GHG reduction strategies and policies, increasing the use of renewable energy, and implementing energy efficiency strategies. The project would not conflict with any plans adopted with the purpose of reducing GHG emissions; therefore, the project's impacts with respect to GHG emissions would be **less than significant**.

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Heartland Solar Project
Construction Start Date	12/1/2026
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.90
Precipitation (days)	21.2
Location	36.648752402721996, -120.39648375951309
County	Fresno
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2525
EDFZ	5
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific 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	3.00	1000sqft	0.07	3,000	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Water	W-1	Use Reclaimed Non-Potable Water

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.	9.56	7.92	65.1	286	0.21	1.58	43.2	44.8	1.46	9.68	11.1	—	62,281	62,281	0.99	1.99	138	63,007
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	10.1	8.29	79.3	258	0.26	1.80	47.5	49.3	1.66	10.5	12.1	—	65,444	65,444	1.24	2.31	3.59	66,166
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.52	2.46	21.8	87.7	0.09	0.42	13.3	13.6	0.38	2.93	3.29	—	19,986	19,986	0.40	0.68	17.7	20,216
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.46	0.45	3.97	16.0	0.02	0.08	2.42	2.49	0.07	0.54	0.60	—	3,309	3,309	0.07	0.11	2.93	3,347

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	7.64	7.47	46.8	286	0.19	0.63	42.6	43.2	0.61	9.53	10.1	—	60,020	60,020	0.88	1.99	138	60,774
2028	9.56	7.92	65.1	285	0.21	1.58	43.2	44.8	1.46	9.68	11.1	—	62,281	62,281	0.99	1.93	125	63,007
2050	0.18	0.15	2.51	5.72	0.02	0.03	3.99	4.02	0.03	0.73	0.77	—	3,236	3,236	0.03	0.25	0.32	3,311
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	2.13	2.10	24.6	79.8	0.10	0.74	9.76	10.3	0.67	2.27	2.80	—	16,421	16,421	0.44	0.39	0.66	16,548
2027	7.26	5.91	49.6	223	0.19	0.63	42.6	43.2	0.61	9.53	10.1	—	55,470	55,470	0.94	2.02	3.59	56,098
2028	10.1	8.29	79.3	258	0.26	1.80	47.5	49.3	1.66	10.5	12.1	—	65,444	65,444	1.24	2.31	3.51	66,166
2050	0.18	0.15	2.65	4.35	0.02	0.03	3.99	4.02	0.03	0.73	0.77	—	3,072	3,072	0.03	0.25	0.01	3,148
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.11	0.10	1.48	3.97	0.01	0.04	0.46	0.50	0.04	0.11	0.15	—	797	797	0.02	0.02	0.43	804
2027	2.52	2.46	21.8	87.7	0.09	0.37	13.3	13.6	0.35	2.93	3.29	—	19,986	19,986	0.40	0.68	17.7	20,216
2028	2.52	2.07	18.4	67.7	0.06	0.42	11.9	12.4	0.38	2.66	3.05	—	16,628	16,628	0.29	0.56	15.1	16,817
2050	0.10	0.08	1.41	2.54	0.01	0.02	2.09	2.11	0.02	0.39	0.41	—	1,692	1,692	0.02	0.14	0.08	1,733
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.02	0.02	0.27	0.72	< 0.005	0.01	0.08	0.09	0.01	0.02	0.03	—	132	132	< 0.005	< 0.005	0.07	133
2027	0.46	0.45	3.97	16.0	0.02	0.07	2.42	2.49	0.06	0.54	0.60	—	3,309	3,309	0.07	0.11	2.93	3,347
2028	0.46	0.38	3.35	12.4	0.01	0.08	2.18	2.26	0.07	0.49	0.56	—	2,753	2,753	0.05	0.09	2.51	2,784
2050	0.02	0.01	0.26	0.46	< 0.005	< 0.005	0.38	0.39	< 0.005	0.07	0.07	—	280	280	< 0.005	0.02	0.01	287

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2027	7.64	7.47	46.8	286	0.19	0.63	42.6	43.2	0.61	9.53	10.1	—	60,020	60,020	0.88	1.99	138	60,774
2028	9.56	7.92	65.1	285	0.21	1.58	43.2	44.8	1.46	9.68	11.1	—	62,281	62,281	0.99	1.93	125	63,007
2050	0.18	0.15	2.51	5.72	0.02	0.03	3.99	4.02	0.03	0.73	0.77	—	3,236	3,236	0.03	0.25	0.32	3,311
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	2.13	2.10	24.6	79.8	0.10	0.74	9.76	10.3	0.67	2.27	2.80	—	16,421	16,421	0.44	0.39	0.66	16,548
2027	7.26	5.91	49.6	223	0.19	0.63	42.6	43.2	0.61	9.53	10.1	—	55,470	55,470	0.94	2.02	3.59	56,098
2028	10.1	8.29	79.3	258	0.26	1.80	47.5	49.3	1.66	10.5	12.1	—	65,444	65,444	1.24	2.31	3.51	66,166
2050	0.18	0.15	2.65	4.35	0.02	0.03	3.99	4.02	0.03	0.73	0.77	—	3,072	3,072	0.03	0.25	0.01	3,148
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.11	0.10	1.48	3.97	0.01	0.04	0.46	0.50	0.04	0.11	0.15	—	797	797	0.02	0.02	0.43	804
2027	2.52	2.46	21.8	87.7	0.09	0.37	13.3	13.6	0.35	2.93	3.29	—	19,986	19,986	0.40	0.68	17.7	20,216
2028	2.52	2.07	18.4	67.7	0.06	0.42	11.9	12.4	0.38	2.66	3.05	—	16,628	16,628	0.29	0.56	15.1	16,817
2050	0.10	0.08	1.41	2.54	0.01	0.02	2.09	2.11	0.02	0.39	0.41	—	1,692	1,692	0.02	0.14	0.08	1,733
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.02	0.02	0.27	0.72	< 0.005	0.01	0.08	0.09	0.01	0.02	0.03	—	132	132	< 0.005	< 0.005	0.07	133
2027	0.46	0.45	3.97	16.0	0.02	0.07	2.42	2.49	0.06	0.54	0.60	—	3,309	3,309	0.07	0.11	2.93	3,347
2028	0.46	0.38	3.35	12.4	0.01	0.08	2.18	2.26	0.07	0.49	0.56	—	2,753	2,753	0.05	0.09	2.51	2,784
2050	0.02	0.01	0.26	0.46	< 0.005	< 0.005	0.38	0.39	< 0.005	0.07	0.07	—	280	280	< 0.005	0.02	0.01	287

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.18	0.17	0.07	1.47	< 0.005	< 0.005	0.37	0.37	< 0.005	0.09	0.09	2.00	7,762	7,764	2.36	0.16	1.83	7,871
Mit.	0.18	0.17	0.07	1.47	< 0.005	< 0.005	0.37	0.37	< 0.005	0.09	0.09	2.00	7,757	7,759	2.35	0.16	1.83	7,867

% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	< 0.5%	< 0.5%	—	—	—	< 0.5%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.17	0.16	0.09	1.07	< 0.005	< 0.005	0.37	0.37	< 0.005	0.09	0.09	2.00	7,719	7,721	2.36	0.16	0.81	7,828
Mit.	0.17	0.16	0.09	1.07	< 0.005	< 0.005	0.37	0.37	< 0.005	0.09	0.09	2.00	7,715	7,717	2.36	0.16	0.81	7,824
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	< 0.5%	< 0.5%	—	—	—	< 0.5%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.14	0.13	0.06	0.81	< 0.005	< 0.005	0.26	0.26	< 0.005	0.07	0.07	2.00	7,637	7,639	2.35	0.15	1.11	7,745
Mit.	0.14	0.13	0.06	0.81	< 0.005	< 0.005	0.26	0.26	< 0.005	0.07	0.07	2.00	7,632	7,634	2.35	0.15	1.11	7,740
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	< 0.5%	< 0.5%	—	—	—	< 0.5%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.03	0.02	0.01	0.15	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	0.33	1,264	1,265	0.39	0.03	0.18	1,282
Mit.	0.03	0.02	0.01	0.15	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	0.33	1,264	1,264	0.39	0.03	0.18	1,281
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	—	< 0.5%

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	0.11	0.10	0.07	1.47	< 0.005	< 0.005	0.37	0.37	< 0.005	0.09	0.09	—	362	362	0.01	0.01	1.05	366
Area	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	7,383	7,383	1.19	0.14	—	7,456

Water	—	—	—	—	—	—	—	—	—	—	—	0.00	16.1	16.1	0.95	< 0.005	—	41.0
Waste	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	0.18	0.17	0.07	1.47	< 0.005	< 0.005	0.37	0.37	< 0.005	0.09	0.09	2.00	7,762	7,764	2.36	0.16	1.83	7,871
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.10	0.09	0.09	1.07	< 0.005	< 0.005	0.37	0.37	< 0.005	0.09	0.09	—	320	320	0.01	0.01	0.03	323
Area	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	7,383	7,383	1.19	0.14	—	7,456
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	16.1	16.1	0.95	< 0.005	—	41.0
Waste	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	0.17	0.16	0.09	1.07	< 0.005	< 0.005	0.37	0.37	< 0.005	0.09	0.09	2.00	7,719	7,721	2.36	0.16	0.81	7,828
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.07	0.07	0.06	0.81	< 0.005	< 0.005	0.26	0.26	< 0.005	0.07	0.07	—	237	237	0.01	0.01	0.33	239
Area	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	7,383	7,383	1.19	0.14	—	7,456
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	16.1	16.1	0.95	< 0.005	—	41.0
Waste	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	0.14	0.13	0.06	0.81	< 0.005	< 0.005	0.26	0.26	< 0.005	0.07	0.07	2.00	7,637	7,639	2.35	0.15	1.11	7,745
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.01	0.01	0.01	0.15	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	39.3	39.3	< 0.005	< 0.005	0.05	39.6
Area	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,222	1,222	0.20	0.02	—	1,234
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	2.67	2.67	0.16	< 0.005	—	6.79
Waste	—	—	—	—	—	—	—	—	—	—	—	0.33	0.00	0.33	0.03	0.00	—	1.16

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Total	0.03	0.02	0.01	0.15	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	0.33	1,264	1,265	0.39	0.03	0.18	1,282

2.6. Operations Emissions by Sector, Mitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.11	0.10	0.07	1.47	< 0.005	< 0.005	0.37	0.37	< 0.005	0.09	0.09	—	362	362	0.01	0.01	1.05	366
Area	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	7,383	7,383	1.19	0.14	—	7,456
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	11.9	11.9	0.95	< 0.005	—	36.8
Waste	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	0.18	0.17	0.07	1.47	< 0.005	< 0.005	0.37	0.37	< 0.005	0.09	0.09	2.00	7,757	7,759	2.35	0.16	1.83	7,867
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.10	0.09	0.09	1.07	< 0.005	< 0.005	0.37	0.37	< 0.005	0.09	0.09	—	320	320	0.01	0.01	0.03	323
Area	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	7,383	7,383	1.19	0.14	—	7,456
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	11.9	11.9	0.95	< 0.005	—	36.8
Waste	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	0.17	0.16	0.09	1.07	< 0.005	< 0.005	0.37	0.37	< 0.005	0.09	0.09	2.00	7,715	7,717	2.36	0.16	0.81	7,824
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.07	0.07	0.06	0.81	< 0.005	< 0.005	0.26	0.26	< 0.005	0.07	0.07	—	237	237	0.01	0.01	0.33	239
Area	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	7,383	7,383	1.19	0.14	—	7,456
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	11.9	11.9	0.95	< 0.005	—	36.8
Waste	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	0.14	0.13	0.06	0.81	< 0.005	< 0.005	0.26	0.26	< 0.005	0.07	0.07	2.00	7,632	7,634	2.35	0.15	1.11	7,740
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.01	0.01	0.01	0.15	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	39.3	39.3	< 0.005	< 0.005	0.05	39.6
Area	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,222	1,222	0.20	0.02	—	1,234
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	1.98	1.98	0.16	< 0.005	—	6.09
Waste	—	—	—	—	—	—	—	—	—	—	—	0.33	0.00	0.33	0.03	0.00	—	1.16
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Total	0.03	0.02	0.01	0.15	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	0.33	1,264	1,264	0.39	0.03	0.18	1,281

3. Construction Emissions Details

3.1. Decommissioning (2050) - 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	0.07	0.06	0.59	1.43	< 0.005	0.01	—	0.01	0.01	—	0.01	—	218	218	0.01	< 0.005	—	218
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.02	0.01	0.25	0.21	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	38.0	38.0	< 0.005	0.01	< 0.005	39.9

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.59	1.43	< 0.005	0.01	—	0.01	0.01	—	0.01	—	218	218	0.01	< 0.005	—	218
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.02	0.01	0.27	0.22	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	38.9	38.9	< 0.005	0.01	< 0.005	40.7
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.32	0.78	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	118	118	< 0.005	< 0.005	—	118
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.14	0.12	< 0.005	< 0.005	0.85	0.85	< 0.005	0.09	0.09	—	20.8	20.8	< 0.005	< 0.005	< 0.005	21.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	19.5	19.5	< 0.005	< 0.005	—	19.6
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.16	0.16	< 0.005	0.02	0.02	—	3.45	3.45	< 0.005	< 0.005	< 0.005	3.61
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.12	3.77	0.00	0.00	1.70	1.70	0.00	0.40	0.40	—	1,445	1,445	< 0.005	< 0.005	0.15	1,446
Vendor	0.01	0.01	0.34	0.10	< 0.005	< 0.005	0.17	0.17	< 0.005	0.05	0.05	—	369	369	0.01	0.06	0.01	387

Hauling	0.03	0.02	1.21	0.20	0.01	0.02	0.44	0.47	0.02	0.12	0.14	—	1,165	1,165	0.01	0.18	0.17	1,220
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.12	2.40	0.00	0.00	1.70	1.70	0.00	0.40	0.40	—	1,280	1,280	< 0.005	< 0.005	< 0.005	1,281
Vendor	0.01	0.01	0.37	0.10	< 0.005	< 0.005	0.17	0.17	< 0.005	0.05	0.05	—	369	369	0.01	0.06	< 0.005	387
Hauling	0.03	0.02	1.29	0.20	0.01	0.02	0.44	0.47	0.02	0.12	0.14	—	1,166	1,166	0.01	0.18	< 0.005	1,220
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.07	1.48	0.00	0.00	0.91	0.91	0.00	0.21	0.21	—	720	720	< 0.005	< 0.005	0.03	721
Vendor	0.01	< 0.005	0.19	0.05	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	200	200	< 0.005	0.03	< 0.005	210
Hauling	0.02	0.01	0.69	0.11	0.01	0.01	0.24	0.25	0.01	0.07	0.08	—	632	632	0.01	0.10	0.04	662
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.01	0.27	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	119	119	< 0.005	< 0.005	0.01	119
Vendor	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	33.2	33.2	< 0.005	0.01	< 0.005	34.8
Hauling	< 0.005	< 0.005	0.13	0.02	< 0.005	< 0.005	0.04	0.05	< 0.005	0.01	0.01	—	105	105	< 0.005	0.02	0.01	110

3.2. Decommissioning (2050) - 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	0.07	0.06	0.59	1.43	< 0.005	0.01	—	0.01	0.01	—	0.01	—	218	218	0.01	< 0.005	—	218
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.02	0.01	0.25	0.21	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	38.0	38.0	< 0.005	0.01	< 0.005	39.9

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.59	1.43	< 0.005	0.01	—	0.01	0.01	—	0.01	—	218	218	0.01	< 0.005	—	218
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.02	0.01	0.27	0.22	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	38.9	38.9	< 0.005	0.01	< 0.005	40.7
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.32	0.78	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	118	118	< 0.005	< 0.005	—	118
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.14	0.12	< 0.005	< 0.005	0.85	0.85	< 0.005	0.09	0.09	—	20.8	20.8	< 0.005	< 0.005	< 0.005	21.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	19.5	19.5	< 0.005	< 0.005	—	19.6
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.16	0.16	< 0.005	0.02	0.02	—	3.45	3.45	< 0.005	< 0.005	< 0.005	3.61
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.12	3.77	0.00	0.00	1.70	1.70	0.00	0.40	0.40	—	1,445	1,445	< 0.005	< 0.005	0.15	1,446
Vendor	0.01	0.01	0.34	0.10	< 0.005	< 0.005	0.17	0.17	< 0.005	0.05	0.05	—	369	369	0.01	0.06	0.01	387

Hauling	0.03	0.02	1.21	0.20	0.01	0.02	0.44	0.47	0.02	0.12	0.14	—	1,165	1,165	0.01	0.18	0.17	1,220
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.12	2.40	0.00	0.00	1.70	1.70	0.00	0.40	0.40	—	1,280	1,280	< 0.005	< 0.005	< 0.005	1,281
Vendor	0.01	0.01	0.37	0.10	< 0.005	< 0.005	0.17	0.17	< 0.005	0.05	0.05	—	369	369	0.01	0.06	< 0.005	387
Hauling	0.03	0.02	1.29	0.20	0.01	0.02	0.44	0.47	0.02	0.12	0.14	—	1,166	1,166	0.01	0.18	< 0.005	1,220
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.07	1.48	0.00	0.00	0.91	0.91	0.00	0.21	0.21	—	720	720	< 0.005	< 0.005	0.03	721
Vendor	0.01	< 0.005	0.19	0.05	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	200	200	< 0.005	0.03	< 0.005	210
Hauling	0.02	0.01	0.69	0.11	0.01	0.01	0.24	0.25	0.01	0.07	0.08	—	632	632	0.01	0.10	0.04	662
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.01	0.27	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	119	119	< 0.005	< 0.005	0.01	119
Vendor	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	33.2	33.2	< 0.005	0.01	< 0.005	34.8
Hauling	< 0.005	< 0.005	0.13	0.02	< 0.005	< 0.005	0.04	0.05	< 0.005	0.01	0.01	—	105	105	< 0.005	0.02	0.01	110

3.3. Move-On (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	1.02	1.02	22.8	41.2	0.07	0.72	—	0.72	0.65	—	0.65	—	7,022	7,022	0.28	0.06	—	7,046

Dust From Material Movement	—	—	—	—	—	—	2.85	2.85	—	1.09	1.09	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.20	0.14	< 0.005	< 0.005	1.11	1.11	< 0.005	0.11	0.11	—	31.6	31.6	< 0.005	0.01	< 0.005	33.2
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.63	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	192	192	0.01	< 0.005	—	193
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.86	0.86	< 0.005	< 0.005	< 0.005	0.90
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.11	0.21	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	31.9	31.9	< 0.005	< 0.005	—	32.0
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.12	0.28	2.72	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	797	797	< 0.005	0.03	0.08	805

Vendor	0.02	0.01	0.66	0.17	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	602	602	0.01	0.09	0.04	629
Hauling	0.01	< 0.005	0.46	0.08	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	404	404	0.01	0.06	0.02	423
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.08	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	22.6	22.6	< 0.005	< 0.005	0.04	22.9
Vendor	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	16.5	16.5	< 0.005	< 0.005	0.02	17.2
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.1	11.1	< 0.005	< 0.005	0.01	11.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.75	3.75	< 0.005	< 0.005	0.01	3.79
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.73	2.73	< 0.005	< 0.005	< 0.005	2.85
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.83	1.83	< 0.005	< 0.005	< 0.005	1.92

3.4. Move-On (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	1.02	1.02	22.8	41.2	0.07	0.72	—	0.72	0.65	—	0.65	—	7,022	7,022	0.28	0.06	—	7,046
Dust From Material Movement	—	—	—	—	—	—	2.85	2.85	—	1.09	1.09	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.20	0.14	< 0.005	< 0.005	1.11	1.11	< 0.005	0.11	0.11	—	31.6	31.6	< 0.005	0.01	< 0.005	33.2

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.63	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	192	192	0.01	< 0.005	—	193
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.86	0.86	< 0.005	< 0.005	< 0.005	0.90
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.11	0.21	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	31.9	31.9	< 0.005	< 0.005	—	32.0
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.12	0.28	2.72	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	797	797	< 0.005	0.03	0.08	805
Vendor	0.02	0.01	0.66	0.17	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	602	602	0.01	0.09	0.04	629
Hauling	0.01	< 0.005	0.46	0.08	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	404	404	0.01	0.06	0.02	423
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.08	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	22.6	22.6	< 0.005	< 0.005	0.04	22.9

Vendor	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	16.5	16.5	< 0.005	< 0.005	0.02	17.2
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.1	11.1	< 0.005	< 0.005	0.01	11.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.75	3.75	< 0.005	< 0.005	0.01	3.79
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.73	2.73	< 0.005	< 0.005	< 0.005	2.85
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.83	1.83	< 0.005	< 0.005	< 0.005	1.92

3.5. Cleanup/Testing/Restoration (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	0.58	0.58	15.1	17.9	0.03	0.60	—	0.60	0.54	—	0.54	—	3,411	3,411	0.14	0.03	—	3,423
Dust From Material Movement	—	—	—	—	—	—	0.78	0.78	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	0.01	< 0.005	0.09	0.07	< 0.005	< 0.005	0.56	0.56	< 0.005	0.06	0.06	—	14.9	14.9	< 0.005	< 0.005	0.01	15.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.58	0.58	15.1	17.9	0.03	0.60	—	0.60	0.54	—	0.54	—	3,411	3,411	0.14	0.03	—	3,423

Dust From Material Movement	—	—	—	—	—	—	0.78	0.78	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	0.01	< 0.005	0.10	0.07	< 0.005	< 0.005	0.56	0.56	< 0.005	0.06	0.06	—	15.2	15.2	< 0.005	< 0.005	< 0.005	15.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.14	3.63	4.33	0.01	0.15	—	0.15	0.13	—	0.13	—	822	822	0.03	0.01	—	825
Dust From Material Movement	—	—	—	—	—	—	0.19	0.19	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.13	0.13	< 0.005	0.01	0.01	—	3.62	3.62	< 0.005	< 0.005	< 0.005	3.80
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.66	0.79	< 0.005	0.03	—	0.03	0.02	—	0.02	—	136	136	0.01	< 0.005	—	137
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.60	0.60	< 0.005	< 0.005	< 0.005	0.63
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.30	0.23	0.43	9.14	0.00	0.00	2.12	2.12	0.00	0.50	0.50	—	2,164	2,164	0.01	0.07	6.53	2,192
Vendor	0.01	0.01	0.34	0.09	< 0.005	0.01	0.10	0.11	0.01	0.03	0.03	—	344	344	0.01	0.05	0.70	360
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	0.28	0.21	0.57	5.80	0.00	0.00	2.12	2.12	0.00	0.50	0.50	—	1,914	1,914	0.01	0.07	0.17	1,936
Vendor	0.01	0.01	0.36	0.09	< 0.005	0.01	0.10	0.11	0.01	0.03	0.03	—	344	344	0.01	0.05	0.02	360
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	0.07	0.05	0.12	1.60	0.00	0.00	0.50	0.50	0.00	0.12	0.12	—	479	479	< 0.005	0.02	0.68	484
Vendor	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	83.0	83.0	< 0.005	0.01	0.07	86.8
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	0.01	0.01	0.02	0.29	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	79.3	79.3	< 0.005	< 0.005	0.11	80.2
Vendor	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.7	13.7	< 0.005	< 0.005	0.01	14.4
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

3.6. Cleanup/Testing/Restoration (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	0.58	0.58	15.1	17.9	0.03	0.60	—	0.60	0.54	—	0.54	—	3,411	3,411	0.14	0.03	—	3,423
Dust From Material Movement	—	—	—	—	—	—	0.78	0.78	—	0.08	0.08	—	—	—	—	—	—	—

Onsite truck	0.01	< 0.005	0.09	0.07	< 0.005	< 0.005	0.56	0.56	< 0.005	0.06	0.06	—	14.9	14.9	< 0.005	< 0.005	0.01	15.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.58	0.58	15.1	17.9	0.03	0.60	—	0.60	0.54	—	0.54	—	3,411	3,411	0.14	0.03	—	3,423
Dust From Material Movement	—	—	—	—	—	—	0.78	0.78	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	0.01	< 0.005	0.10	0.07	< 0.005	< 0.005	0.56	0.56	< 0.005	0.06	0.06	—	15.2	15.2	< 0.005	< 0.005	< 0.005	15.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.14	3.63	4.33	0.01	0.15	—	0.15	0.13	—	0.13	—	822	822	0.03	0.01	—	825
Dust From Material Movement	—	—	—	—	—	—	0.19	0.19	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.13	0.13	< 0.005	0.01	0.01	—	3.62	3.62	< 0.005	< 0.005	< 0.005	3.80
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.66	0.79	< 0.005	0.03	—	0.03	0.02	—	0.02	—	136	136	0.01	< 0.005	—	137
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.60	0.60	< 0.005	< 0.005	< 0.005	0.63

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.30	0.23	0.43	9.14	0.00	0.00	2.12	2.12	0.00	0.50	0.50	—	2,164	2,164	0.01	0.07	6.53	2,192
Vendor	0.01	0.01	0.34	0.09	< 0.005	0.01	0.10	0.11	0.01	0.03	0.03	—	344	344	0.01	0.05	0.70	360
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	0.28	0.21	0.57	5.80	0.00	0.00	2.12	2.12	0.00	0.50	0.50	—	1,914	1,914	0.01	0.07	0.17	1,936
Vendor	0.01	0.01	0.36	0.09	< 0.005	0.01	0.10	0.11	0.01	0.03	0.03	—	344	344	0.01	0.05	0.02	360
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	0.07	0.05	0.12	1.60	0.00	0.00	0.50	0.50	0.00	0.12	0.12	—	479	479	< 0.005	0.02	0.68	484
Vendor	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	83.0	83.0	< 0.005	0.01	0.07	86.8
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	0.01	0.01	0.02	0.29	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	79.3	79.3	< 0.005	< 0.005	0.11	80.2
Vendor	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.7	13.7	< 0.005	< 0.005	0.01	14.4
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

3.7. Site Preparation and 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	1.20	1.20	21.7	59.1	0.10	0.56	—	0.56	0.52	—	0.52	—	9,817	9,817	0.40	0.08	—	9,851
Dust From Material Movement	—	—	—	—	—	—	2.30	2.30	—	0.64	0.64	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.17	0.12	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	26.3	26.3	< 0.005	< 0.005	< 0.005	27.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.72	1.96	< 0.005	0.02	—	0.02	0.02	—	0.02	—	327	327	0.01	< 0.005	—	328
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.87	0.87	< 0.005	< 0.005	< 0.005	0.91
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.13	0.36	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	54.1	54.1	< 0.005	< 0.005	—	54.3
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.89	0.88	2.11	20.4	0.00	0.00	6.36	6.36	0.00	1.49	1.49	—	5,976	5,976	0.03	0.21	0.62	6,040
Vendor	0.02	0.01	0.66	0.17	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	602	602	0.01	0.09	0.04	629
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	0.04	0.03	0.06	0.77	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	206	206	< 0.005	0.01	0.35	209
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	20.0	20.0	< 0.005	< 0.005	0.02	20.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.14	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	34.1	34.1	< 0.005	< 0.005	0.06	34.6
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.31	3.31	< 0.005	< 0.005	< 0.005	3.47
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

3.8. Site Preparation and 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	1.20	1.20	21.7	59.1	0.10	0.56	—	0.56	0.52	—	0.52	—	9,817	9,817	0.40	0.08	—	9,851
Dust From Material Movement	—	—	—	—	—	—	2.30	2.30	—	0.64	0.64	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.17	0.12	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	26.3	26.3	< 0.005	< 0.005	< 0.005	27.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.72	1.96	< 0.005	0.02	—	0.02	0.02	—	0.02	—	327	327	0.01	< 0.005	—	328
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.87	0.87	< 0.005	< 0.005	< 0.005	0.91
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.13	0.36	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	54.1	54.1	< 0.005	< 0.005	—	54.3
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.89	0.88	2.11	20.4	0.00	0.00	6.36	6.36	0.00	1.49	1.49	—	5,976	5,976	0.03	0.21	0.62	6,040
Vendor	0.02	0.01	0.66	0.17	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	602	602	0.01	0.09	0.04	629
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	0.04	0.03	0.06	0.77	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	206	206	< 0.005	0.01	0.35	209
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	20.0	20.0	< 0.005	< 0.005	0.02	20.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.14	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	34.1	34.1	< 0.005	< 0.005	0.06	34.6
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.31	3.31	< 0.005	< 0.005	< 0.005	3.47
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

3.9. Site Preparation and 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	1.20	1.20	21.7	59.1	0.10	0.56	—	0.56	0.52	—	0.52	—	9,818	9,818	0.40	0.08	—	9,851
Dust From Material Movement	—	—	—	—	—	—	2.30	2.30	—	0.64	0.64	—	—	—	—	—	—	—

Onsite truck	0.01	0.01	0.16	0.11	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	25.4	25.4	< 0.005	< 0.005	0.02	26.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.20	1.20	21.7	59.1	0.10	0.56	—	0.56	0.52	—	0.52	—	9,818	9,818	0.40	0.08	—	9,851
Dust From Material Movement	—	—	—	—	—	—	2.30	2.30	—	0.64	0.64	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.17	0.12	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	25.8	25.8	< 0.005	< 0.005	< 0.005	27.1
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	0.25	4.46	12.1	0.02	0.12	—	0.12	0.11	—	0.11	—	2,017	2,017	0.08	0.02	—	2,024
Dust From Material Movement	—	—	—	—	—	—	0.47	0.47	—	0.13	0.13	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.18	0.18	< 0.005	0.02	0.02	—	5.25	5.25	< 0.005	< 0.005	< 0.005	5.52
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	0.81	2.21	< 0.005	0.02	—	0.02	0.02	—	0.02	—	334	334	0.01	< 0.005	—	335
Dust From Material Movement	—	—	—	—	—	—	0.09	0.09	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.87	0.87	< 0.005	< 0.005	< 0.005	0.91

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.92	0.91	1.49	29.5	0.00	0.00	6.36	6.36	0.00	1.49	1.49	—	6,621	6,621	0.02	0.21	21.8	6,705
Vendor	0.02	0.01	0.58	0.16	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	588	588	0.01	0.09	1.32	615
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	0.86	0.65	1.90	18.9	0.00	0.00	6.36	6.36	0.00	1.49	1.49	—	5,853	5,853	0.03	0.21	0.56	5,918
Vendor	0.02	0.01	0.62	0.16	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	589	589	0.01	0.09	0.03	614
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	0.18	0.18	0.35	4.39	0.00	0.00	1.29	1.29	0.00	0.30	0.30	—	1,248	1,248	0.01	0.04	1.93	1,263
Vendor	< 0.005	< 0.005	0.13	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	121	121	< 0.005	0.02	0.12	126
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	0.03	0.03	0.06	0.80	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	207	207	< 0.005	0.01	0.32	209
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	20.0	20.0	< 0.005	< 0.005	0.02	20.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Site Preparation and 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	1.20	1.20	21.7	59.1	0.10	0.56	—	0.56	0.52	—	0.52	—	9,818	9,818	0.40	0.08	—	9,851
Dust From Material Movement	—	—	—	—	—	—	2.30	2.30	—	0.64	0.64	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.16	0.11	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	25.4	25.4	< 0.005	< 0.005	0.02	26.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.20	1.20	21.7	59.1	0.10	0.56	—	0.56	0.52	—	0.52	—	9,818	9,818	0.40	0.08	—	9,851
Dust From Material Movement	—	—	—	—	—	—	2.30	2.30	—	0.64	0.64	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.17	0.12	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	25.8	25.8	< 0.005	< 0.005	< 0.005	27.1
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	0.25	4.46	12.1	0.02	0.12	—	0.12	0.11	—	0.11	—	2,017	2,017	0.08	0.02	—	2,024
Dust From Material Movement	—	—	—	—	—	—	0.47	0.47	—	0.13	0.13	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.18	0.18	< 0.005	0.02	0.02	—	5.25	5.25	< 0.005	< 0.005	< 0.005	5.52
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	0.81	2.21	< 0.005	0.02	—	0.02	0.02	—	0.02	—	334	334	0.01	< 0.005	—	335

Dust From Material Movement	—	—	—	—	—	—	0.09	0.09	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.87	0.87	< 0.005	< 0.005	< 0.005	0.91
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.92	0.91	1.49	29.5	0.00	0.00	6.36	6.36	0.00	1.49	1.49	—	6,621	6,621	0.02	0.21	21.8	6,705
Vendor	0.02	0.01	0.58	0.16	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	588	588	0.01	0.09	1.32	615
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	0.86	0.65	1.90	18.9	0.00	0.00	6.36	6.36	0.00	1.49	1.49	—	5,853	5,853	0.03	0.21	0.56	5,918
Vendor	0.02	0.01	0.62	0.16	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	589	589	0.01	0.09	0.03	614
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	0.18	0.18	0.35	4.39	0.00	0.00	1.29	1.29	0.00	0.30	0.30	—	1,248	1,248	0.01	0.04	1.93	1,263
Vendor	< 0.005	< 0.005	0.13	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	121	121	< 0.005	0.02	0.12	126
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	0.03	0.03	0.06	0.80	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	207	207	< 0.005	0.01	0.32	209
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	20.0	20.0	< 0.005	< 0.005	0.02	20.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Substation 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,902	3,902	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	0.01	10.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,902	3,902	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.3	10.3	< 0.005	< 0.005	< 0.005	10.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21	0.21	3.44	10.3	0.02	0.10	—	0.10	0.09	—	0.09	—	1,749	1,749	0.07	0.01	—	1,755
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.16	0.16	< 0.005	0.02	0.02	—	4.58	4.58	< 0.005	< 0.005	< 0.005	4.81
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.63	1.88	< 0.005	0.02	—	0.02	0.02	—	0.02	—	290	290	0.01	< 0.005	—	291
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.76	0.76	< 0.005	< 0.005	< 0.005	0.80
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.12	0.20	3.93	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	883	883	< 0.005	0.03	2.90	894
Vendor	< 0.005	< 0.005	0.12	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	118	118	< 0.005	0.02	0.26	123
Hauling	0.01	< 0.005	0.41	0.07	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	395	395	0.01	0.06	0.89	414
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.09	0.25	2.52	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	780	780	< 0.005	0.03	0.08	789
Vendor	< 0.005	< 0.005	0.12	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	118	118	< 0.005	0.02	0.01	123
Hauling	0.01	< 0.005	0.44	0.07	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	395	395	0.01	0.06	0.02	413
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.10	1.28	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	363	363	< 0.005	0.01	0.56	367
Vendor	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	52.7	52.7	< 0.005	0.01	0.05	55.1
Hauling	0.01	< 0.005	0.19	0.03	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	177	177	< 0.005	0.03	0.17	185
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.02	0.23	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	60.1	60.1	< 0.005	< 0.005	0.09	60.8
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.73	8.73	< 0.005	< 0.005	0.01	9.12
Hauling	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	29.3	29.3	< 0.005	< 0.005	0.03	30.7

3.12. Substation 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,902	3,902	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	0.01	10.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,902	3,902	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.3	10.3	< 0.005	< 0.005	< 0.005	10.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21	0.21	3.44	10.3	0.02	0.10	—	0.10	0.09	—	0.09	—	1,749	1,749	0.07	0.01	—	1,755
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.16	0.16	< 0.005	0.02	0.02	—	4.58	4.58	< 0.005	< 0.005	< 0.005	4.81
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.63	1.88	< 0.005	0.02	—	0.02	0.02	—	0.02	—	290	290	0.01	< 0.005	—	291
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.76	0.76	< 0.005	< 0.005	< 0.005	0.80
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.12	0.20	3.93	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	883	883	< 0.005	0.03	2.90	894
Vendor	< 0.005	< 0.005	0.12	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	118	118	< 0.005	0.02	0.26	123
Hauling	0.01	< 0.005	0.41	0.07	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	395	395	0.01	0.06	0.89	414

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.09	0.25	2.52	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	780	780	< 0.005	0.03	0.08	789
Vendor	< 0.005	< 0.005	0.12	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	118	118	< 0.005	0.02	0.01	123
Hauling	0.01	< 0.005	0.44	0.07	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	395	395	0.01	0.06	0.02	413
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.10	1.28	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	363	363	< 0.005	0.01	0.56	367
Vendor	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	52.7	52.7	< 0.005	0.01	0.05	55.1
Hauling	0.01	< 0.005	0.19	0.03	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	177	177	< 0.005	0.03	0.17	185
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.02	0.23	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	60.1	60.1	< 0.005	< 0.005	0.09	60.8
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.73	8.73	< 0.005	< 0.005	0.01	9.12
Hauling	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	29.3	29.3	< 0.005	< 0.005	0.03	30.7

3.13. Substation 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	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,903	3,903	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	9.93	9.93	< 0.005	< 0.005	0.01	10.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,903	3,903	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.12	0.12	2.00	5.99	0.01	0.06	—	0.06	0.05	—	0.05	—	1,016	1,016	0.04	0.01	—	1,019
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.09	0.09	< 0.005	0.01	0.01	—	2.60	2.60	< 0.005	< 0.005	< 0.005	2.73
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.02	0.02	0.36	1.09	< 0.005	0.01	—	0.01	0.01	—	0.01	—	168	168	0.01	< 0.005	—	169
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.43	0.43	< 0.005	< 0.005	< 0.005	0.45
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.09	0.17	3.66	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	866	866	< 0.005	0.03	2.61	877
Vendor	< 0.005	< 0.005	0.11	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	115	115	< 0.005	0.02	0.23	120
Hauling	0.01	< 0.005	0.40	0.07	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	384	384	0.01	0.06	0.81	404
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.08	0.23	2.32	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	766	766	< 0.005	0.03	0.07	774
Vendor	< 0.005	< 0.005	0.12	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	115	115	< 0.005	0.02	0.01	120
Hauling	0.01	< 0.005	0.43	0.07	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	384	384	0.01	0.06	0.02	403
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.03	0.02	0.05	0.69	0.00	0.00	0.22	0.22	0.00	0.05	0.05	—	207	207	< 0.005	0.01	0.29	209
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	29.9	29.9	< 0.005	< 0.005	0.03	31.2
Hauling	< 0.005	< 0.005	0.11	0.02	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	100	100	< 0.005	0.02	0.09	105
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.01	0.13	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	34.2	34.2	< 0.005	< 0.005	0.05	34.6
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.94	4.94	< 0.005	< 0.005	< 0.005	5.17
Hauling	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	16.6	16.6	< 0.005	< 0.005	0.02	17.4

3.14. Substation 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	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,903	3,903	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	9.93	9.93	< 0.005	< 0.005	0.01	10.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,903	3,903	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.12	0.12	2.00	5.99	0.01	0.06	—	0.06	0.05	—	0.05	—	1,016	1,016	0.04	0.01	—	1,019
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.09	0.09	< 0.005	0.01	0.01	—	2.60	2.60	< 0.005	< 0.005	< 0.005	2.73
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.36	1.09	< 0.005	0.01	—	0.01	0.01	—	0.01	—	168	168	0.01	< 0.005	—	169
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.43	0.43	< 0.005	< 0.005	< 0.005	0.45
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.09	0.17	3.66	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	866	866	< 0.005	0.03	2.61	877
Vendor	< 0.005	< 0.005	0.11	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	115	115	< 0.005	0.02	0.23	120
Hauling	0.01	< 0.005	0.40	0.07	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	384	384	0.01	0.06	0.81	404
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.08	0.23	2.32	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	766	766	< 0.005	0.03	0.07	774
Vendor	< 0.005	< 0.005	0.12	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	115	115	< 0.005	0.02	0.01	120
Hauling	0.01	< 0.005	0.43	0.07	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	384	384	0.01	0.06	0.02	403
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.05	0.69	0.00	0.00	0.22	0.22	0.00	0.05	0.05	—	207	207	< 0.005	0.01	0.29	209
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	29.9	29.9	< 0.005	< 0.005	0.03	31.2
Hauling	< 0.005	< 0.005	0.11	0.02	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	100	100	< 0.005	0.02	0.09	105
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.01	0.13	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	34.2	34.2	< 0.005	< 0.005	0.05	34.6
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.94	4.94	< 0.005	< 0.005	< 0.005	5.17

Hauling	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	16.6	16.6	< 0.005	< 0.005	0.02	17.4

3.15. System Installation - Solar Facility (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,192	7,192	0.29	0.06	—	7,216
Onsite truck	0.02	0.01	0.22	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	35.5	35.5	< 0.005	0.01	0.03	37.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,192	7,192	0.29	0.06	—	7,216
Onsite truck	0.01	0.01	0.24	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	36.1	36.1	< 0.005	0.01	< 0.005	37.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.18	3.24	10.5	0.01	0.03	—	0.03	0.03	—	0.03	—	1,492	1,492	0.06	0.01	—	1,497
Onsite truck	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	0.25	0.25	< 0.005	0.03	0.03	—	7.42	7.42	< 0.005	< 0.005	< 0.005	7.80
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.03	0.03	0.59	1.92	< 0.005	0.01	—	0.01	0.01	—	0.01	—	247	247	0.01	< 0.005	—	248
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	—	1.23	1.23	< 0.005	< 0.005	< 0.005	1.29
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.92	4.85	7.94	157	0.00	0.00	33.9	33.9	0.00	7.95	7.95	—	35,310	35,310	0.12	1.11	116	35,761
Vendor	0.02	0.01	0.58	0.16	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	588	588	0.01	0.09	1.32	615
Hauling	0.03	0.01	0.83	0.15	0.01	0.02	0.22	0.24	0.02	0.06	0.08	—	789	789	0.01	0.12	1.77	828
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.59	3.46	10.1	101	0.00	0.00	33.9	33.9	0.00	7.95	7.95	—	31,218	31,218	0.18	1.13	3.01	31,562
Vendor	0.02	0.01	0.62	0.16	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	589	589	0.01	0.09	0.03	614
Hauling	0.02	0.01	0.88	0.15	0.01	0.02	0.22	0.24	0.02	0.06	0.08	—	789	789	0.01	0.12	0.05	826
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.96	0.94	1.87	23.6	0.00	0.00	6.94	6.94	0.00	1.63	1.63	—	6,718	6,718	0.03	0.23	10.4	6,799
Vendor	0.01	< 0.005	0.13	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	122	122	< 0.005	0.02	0.12	128
Hauling	0.01	< 0.005	0.18	0.03	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	164	164	< 0.005	0.03	0.16	172
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.17	0.34	4.32	0.00	0.00	1.27	1.27	0.00	0.30	0.30	—	1,112	1,112	< 0.005	0.04	1.72	1,126
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	20.2	20.2	< 0.005	< 0.005	0.02	21.1
Hauling	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	27.1	27.1	< 0.005	< 0.005	0.03	28.4

3.16. System Installation - Solar Facility (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	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,192	7,192	0.29	0.06	—	7,216
Onsite truck	0.02	0.01	0.22	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	35.5	35.5	< 0.005	0.01	0.03	37.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,192	7,192	0.29	0.06	—	7,216
Onsite truck	0.01	0.01	0.24	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	36.1	36.1	< 0.005	0.01	< 0.005	37.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.18	3.24	10.5	0.01	0.03	—	0.03	0.03	—	0.03	—	1,492	1,492	0.06	0.01	—	1,497
Onsite truck	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	0.25	0.25	< 0.005	0.03	0.03	—	7.42	7.42	< 0.005	< 0.005	< 0.005	7.80
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.59	1.92	< 0.005	0.01	—	0.01	0.01	—	0.01	—	247	247	0.01	< 0.005	—	248
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	—	1.23	1.23	< 0.005	< 0.005	< 0.005	1.29
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.92	4.85	7.94	157	0.00	0.00	33.9	33.9	0.00	7.95	7.95	—	35,310	35,310	0.12	1.11	116	35,761
Vendor	0.02	0.01	0.58	0.16	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	588	588	0.01	0.09	1.32	615
Hauling	0.03	0.01	0.83	0.15	0.01	0.02	0.22	0.24	0.02	0.06	0.08	—	789	789	0.01	0.12	1.77	828
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.59	3.46	10.1	101	0.00	0.00	33.9	33.9	0.00	7.95	7.95	—	31,218	31,218	0.18	1.13	3.01	31,562
Vendor	0.02	0.01	0.62	0.16	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	589	589	0.01	0.09	0.03	614
Hauling	0.02	0.01	0.88	0.15	0.01	0.02	0.22	0.24	0.02	0.06	0.08	—	789	789	0.01	0.12	0.05	826
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.96	0.94	1.87	23.6	0.00	0.00	6.94	6.94	0.00	1.63	1.63	—	6,718	6,718	0.03	0.23	10.4	6,799
Vendor	0.01	< 0.005	0.13	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	122	122	< 0.005	0.02	0.12	128
Hauling	0.01	< 0.005	0.18	0.03	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	164	164	< 0.005	0.03	0.16	172
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.17	0.34	4.32	0.00	0.00	1.27	1.27	0.00	0.30	0.30	—	1,112	1,112	< 0.005	0.04	1.72	1,126
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	20.2	20.2	< 0.005	< 0.005	0.02	21.1
Hauling	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	27.1	27.1	< 0.005	< 0.005	0.03	28.4

3.17. System Installation - Solar Facility (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 Equipm	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,188	7,188	0.29	0.06	—	7,212
Onsite truck	0.02	0.01	0.22	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	34.8	34.8	< 0.005	0.01	0.02	36.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,188	7,188	0.29	0.06	—	7,212
Onsite truck	0.01	0.01	0.23	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	35.4	35.4	< 0.005	0.01	< 0.005	37.2
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	0.24	4.28	13.9	0.02	0.04	—	0.04	0.04	—	0.04	—	1,969	1,969	0.08	0.02	—	1,976
Onsite truck	< 0.005	< 0.005	0.06	0.04	< 0.005	< 0.005	0.34	0.34	< 0.005	0.03	0.03	—	9.60	9.60	< 0.005	< 0.005	< 0.005	10.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.78	2.53	< 0.005	0.01	—	0.01	0.01	—	0.01	—	326	326	0.01	< 0.005	—	327
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.06	0.06	< 0.005	0.01	0.01	—	1.59	1.59	< 0.005	< 0.005	< 0.005	1.67
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.78	3.67	6.84	146	0.00	0.00	33.9	33.9	0.00	7.95	7.95	—	34,631	34,631	0.12	1.11	104	35,070
Vendor	0.02	0.01	0.56	0.15	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	574	574	0.01	0.09	1.17	601
Hauling	0.03	0.01	0.80	0.15	0.01	0.02	0.22	0.24	0.02	0.06	0.08	—	769	769	0.01	0.12	1.63	807

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.46	3.33	9.05	92.8	0.00	0.00	33.9	33.9	0.00	7.95	7.95	—	30,625	30,625	0.16	1.13	2.71	30,968
Vendor	0.02	0.01	0.60	0.15	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	574	574	0.01	0.09	0.03	600
Hauling	0.02	0.01	0.86	0.15	0.01	0.02	0.22	0.24	0.02	0.06	0.08	—	769	769	0.01	0.12	0.04	806
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.23	0.92	2.17	29.1	0.00	0.00	9.16	9.16	0.00	2.15	2.15	—	8,704	8,704	0.04	0.30	12.4	8,808
Vendor	0.01	< 0.005	0.16	0.04	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	157	157	< 0.005	0.02	0.14	164
Hauling	0.01	< 0.005	0.23	0.04	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	211	211	< 0.005	0.03	0.19	221
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.22	0.17	0.40	5.31	0.00	0.00	1.67	1.67	0.00	0.39	0.39	—	1,441	1,441	0.01	0.05	2.05	1,458
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	26.0	26.0	< 0.005	< 0.005	0.02	27.2
Hauling	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	34.9	34.9	< 0.005	0.01	0.03	36.6

3.18. System Installation - Solar Facility (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	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,188	7,188	0.29	0.06	—	7,212
Onsite truck	0.02	0.01	0.22	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	34.8	34.8	< 0.005	0.01	0.02	36.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,188	7,188	0.29	0.06	—	7,212
Onsite truck	0.01	0.01	0.23	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	35.4	35.4	< 0.005	0.01	< 0.005	37.2
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.24	0.24	4.28	13.9	0.02	0.04	—	0.04	0.04	—	0.04	—	1,969	1,969	0.08	0.02	—	1,976
Onsite truck	< 0.005	< 0.005	0.06	0.04	< 0.005	< 0.005	0.34	0.34	< 0.005	0.03	0.03	—	9.60	9.60	< 0.005	< 0.005	< 0.005	10.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.04	0.04	0.78	2.53	< 0.005	0.01	—	0.01	0.01	—	0.01	—	326	326	0.01	< 0.005	—	327
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.06	0.06	< 0.005	0.01	0.01	—	1.59	1.59	< 0.005	< 0.005	< 0.005	1.67
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.78	3.67	6.84	146	0.00	0.00	33.9	33.9	0.00	7.95	7.95	—	34,631	34,631	0.12	1.11	104	35,070
Vendor	0.02	0.01	0.56	0.15	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	574	574	0.01	0.09	1.17	601
Hauling	0.03	0.01	0.80	0.15	0.01	0.02	0.22	0.24	0.02	0.06	0.08	—	769	769	0.01	0.12	1.63	807
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.46	3.33	9.05	92.8	0.00	0.00	33.9	33.9	0.00	7.95	7.95	—	30,625	30,625	0.16	1.13	2.71	30,968
Vendor	0.02	0.01	0.60	0.15	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	574	574	0.01	0.09	0.03	600
Hauling	0.02	0.01	0.86	0.15	0.01	0.02	0.22	0.24	0.02	0.06	0.08	—	769	769	0.01	0.12	0.04	806
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	1.23	0.92	2.17	29.1	0.00	0.00	9.16	9.16	0.00	2.15	2.15	—	8,704	8,704	0.04	0.30	12.4	8,808
Vendor	0.01	< 0.005	0.16	0.04	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	157	157	< 0.005	0.02	0.14	164
Hauling	0.01	< 0.005	0.23	0.04	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	211	211	< 0.005	0.03	0.19	221
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.22	0.17	0.40	5.31	0.00	0.00	1.67	1.67	0.00	0.39	0.39	—	1,441	1,441	0.01	0.05	2.05	1,458
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	26.0	26.0	< 0.005	< 0.005	0.02	27.2
Hauling	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	34.9	34.9	< 0.005	0.01	0.03	36.6

3.19. Gen-tie Line Installation (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,343	1,343	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	0.01	10.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,343	1,343	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.3	10.3	< 0.005	< 0.005	< 0.005	10.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.06	0.06	0.46	3.63	0.01	0.01	—	0.01	0.01	—	0.01	—	581	581	0.02	< 0.005	—	583
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.15	0.15	< 0.005	0.02	0.02	—	4.42	4.42	< 0.005	< 0.005	< 0.005	4.64
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.66	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	96.1	96.1	< 0.005	< 0.005	—	96.5
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.73	0.73	< 0.005	< 0.005	< 0.005	0.77
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.12	0.20	3.93	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	883	883	< 0.005	0.03	2.90	894
Vendor	< 0.005	< 0.005	0.12	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	118	118	< 0.005	0.02	0.26	123
Hauling	0.01	< 0.005	0.41	0.07	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	395	395	0.01	0.06	0.89	414
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.09	0.25	2.52	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	780	780	< 0.005	0.03	0.08	789
Vendor	< 0.005	< 0.005	0.12	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	118	118	< 0.005	0.02	0.01	123
Hauling	0.01	< 0.005	0.44	0.07	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	395	395	0.01	0.06	0.02	413
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.10	1.23	0.00	0.00	0.36	0.36	0.00	0.08	0.08	—	350	350	< 0.005	0.01	0.54	354
Vendor	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	50.9	50.9	< 0.005	0.01	0.05	53.2
Hauling	0.01	< 0.005	0.19	0.03	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	171	171	< 0.005	0.03	0.17	179
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.02	0.22	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	58.0	58.0	< 0.005	< 0.005	0.09	58.7
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.43	8.43	< 0.005	< 0.005	0.01	8.80

Hauling	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	28.3	28.3	< 0.005	< 0.005	0.03	29.6

3.20. Gen-tie Line Installation (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	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,343	1,343	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	0.01	10.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,343	1,343	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.3	10.3	< 0.005	< 0.005	< 0.005	10.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.46	3.63	0.01	0.01	—	0.01	0.01	—	0.01	—	581	581	0.02	< 0.005	—	583
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.15	0.15	< 0.005	0.02	0.02	—	4.42	4.42	< 0.005	< 0.005	< 0.005	4.64
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.01	0.01	0.08	0.66	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	96.1	96.1	< 0.005	< 0.005	—	96.5
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.73	0.73	< 0.005	< 0.005	< 0.005	0.77
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.12	0.20	3.93	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	883	883	< 0.005	0.03	2.90	894
Vendor	< 0.005	< 0.005	0.12	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	118	118	< 0.005	0.02	0.26	123
Hauling	0.01	< 0.005	0.41	0.07	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	395	395	0.01	0.06	0.89	414
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.09	0.25	2.52	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	780	780	< 0.005	0.03	0.08	789
Vendor	< 0.005	< 0.005	0.12	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	118	118	< 0.005	0.02	0.01	123
Hauling	0.01	< 0.005	0.44	0.07	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	395	395	0.01	0.06	0.02	413
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.10	1.23	0.00	0.00	0.36	0.36	0.00	0.08	0.08	—	350	350	< 0.005	0.01	0.54	354
Vendor	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	50.9	50.9	< 0.005	0.01	0.05	53.2
Hauling	0.01	< 0.005	0.19	0.03	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	171	171	< 0.005	0.03	0.17	179
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.02	0.22	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	58.0	58.0	< 0.005	< 0.005	0.09	58.7
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.43	8.43	< 0.005	< 0.005	0.01	8.80
Hauling	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	28.3	28.3	< 0.005	< 0.005	0.03	29.6

3.21. Gen-tie Line Installation (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	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,342	1,342	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	9.93	9.93	< 0.005	< 0.005	0.01	10.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,342	1,342	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.30	2.35	< 0.005	0.01	—	0.01	0.01	—	0.01	—	376	376	0.02	< 0.005	—	377
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.10	0.10	< 0.005	0.01	0.01	—	2.80	2.80	< 0.005	< 0.005	< 0.005	2.94
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.43	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	62.2	62.2	< 0.005	< 0.005	—	62.4
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.46	0.46	< 0.005	< 0.005	< 0.005	0.49
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.09	0.17	3.66	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	866	866	< 0.005	0.03	2.61	877
Vendor	< 0.005	< 0.005	0.11	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	115	115	< 0.005	0.02	0.23	120
Hauling	0.01	< 0.005	0.40	0.07	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	384	384	0.01	0.06	0.81	404
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.08	0.23	2.32	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	766	766	< 0.005	0.03	0.07	774
Vendor	< 0.005	< 0.005	0.12	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	115	115	< 0.005	0.02	0.01	120
Hauling	0.01	< 0.005	0.43	0.07	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	384	384	0.01	0.06	0.02	403
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.06	0.74	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	222	222	< 0.005	0.01	0.32	225
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	32.1	32.1	< 0.005	< 0.005	0.03	33.6
Hauling	< 0.005	< 0.005	0.12	0.02	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	108	108	< 0.005	0.02	0.10	113
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.01	0.14	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	36.8	36.8	< 0.005	< 0.005	0.05	37.2
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.32	5.32	< 0.005	< 0.005	< 0.005	5.56
Hauling	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	17.8	17.8	< 0.005	< 0.005	0.02	18.7

3.22. Gen-tie Line Installation (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 Equipm	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,342	1,342	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	9.93	9.93	< 0.005	< 0.005	0.01	10.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,342	1,342	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.30	2.35	< 0.005	0.01	—	0.01	0.01	—	0.01	—	376	376	0.02	< 0.005	—	377
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.10	0.10	< 0.005	0.01	0.01	—	2.80	2.80	< 0.005	< 0.005	< 0.005	2.94
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.43	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	62.2	62.2	< 0.005	< 0.005	—	62.4
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.46	0.46	< 0.005	< 0.005	< 0.005	0.49
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.09	0.17	3.66	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	866	866	< 0.005	0.03	2.61	877
Vendor	< 0.005	< 0.005	0.11	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	115	115	< 0.005	0.02	0.23	120
Hauling	0.01	< 0.005	0.40	0.07	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	384	384	0.01	0.06	0.81	404

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.08	0.23	2.32	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	766	766	< 0.005	0.03	0.07	774
Vendor	< 0.005	< 0.005	0.12	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	115	115	< 0.005	0.02	0.01	120
Hauling	0.01	< 0.005	0.43	0.07	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	384	384	0.01	0.06	0.02	403
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.06	0.74	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	222	222	< 0.005	0.01	0.32	225
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	32.1	32.1	< 0.005	< 0.005	0.03	33.6
Hauling	< 0.005	< 0.005	0.12	0.02	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	108	108	< 0.005	0.02	0.10	113
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.01	0.14	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	36.8	36.8	< 0.005	< 0.005	0.05	37.2
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.32	5.32	< 0.005	< 0.005	< 0.005	5.56
Hauling	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	17.8	17.8	< 0.005	< 0.005	0.02	18.7

3.23. Battery/Container Installation (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.51	0.51	8.86	27.3	0.04	0.19	—	0.19	0.17	—	0.17	—	4,184	4,184	0.17	0.03	—	4,199
Onsite truck	0.02	0.01	0.29	0.20	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	45.7	45.7	< 0.005	0.01	0.03	47.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.51	0.51	8.86	27.3	0.04	0.19	—	0.19	0.17	—	0.17	—	4,184	4,184	0.17	0.03	—	4,199
Onsite truck	0.02	0.01	0.30	0.21	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	46.5	46.5	< 0.005	0.01	< 0.005	48.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.19	0.19	3.30	10.2	0.01	0.07	—	0.07	0.06	—	0.06	—	1,556	1,556	0.06	0.01	—	1,561
Onsite truck	0.01	0.01	0.11	0.08	< 0.005	< 0.005	0.58	0.59	< 0.005	0.06	0.06	—	17.1	17.1	< 0.005	< 0.005	0.01	18.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.03	0.03	0.60	1.85	< 0.005	0.01	—	0.01	0.01	—	0.01	—	258	258	0.01	< 0.005	—	258
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.11	0.11	< 0.005	0.01	0.01	—	2.83	2.83	< 0.005	< 0.005	< 0.005	2.97
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.31	0.30	0.50	9.83	0.00	0.00	2.12	2.12	0.00	0.50	0.50	—	2,207	2,207	0.01	0.07	7.25	2,235
Vendor	0.03	0.02	0.82	0.22	0.01	0.01	0.23	0.25	0.01	0.06	0.08	—	824	824	0.01	0.12	1.85	862
Hauling	0.03	0.01	0.83	0.15	0.01	0.02	0.22	0.24	0.02	0.06	0.08	—	789	789	0.01	0.12	1.77	828
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.29	0.22	0.63	6.30	0.00	0.00	2.12	2.12	0.00	0.50	0.50	—	1,951	1,951	0.01	0.07	0.19	1,973
Vendor	0.03	0.02	0.87	0.23	0.01	0.01	0.23	0.25	0.01	0.06	0.08	—	824	824	0.01	0.12	0.05	860
Hauling	0.02	0.01	0.88	0.15	0.01	0.02	0.22	0.24	0.02	0.06	0.08	—	789	789	0.01	0.12	0.05	826
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.11	0.11	0.21	2.65	0.00	0.00	0.78	0.78	0.00	0.18	0.18	—	753	753	< 0.005	0.03	1.16	762
Vendor	0.01	0.01	0.32	0.08	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	306	306	0.01	0.04	0.30	320
Hauling	0.01	< 0.005	0.32	0.05	< 0.005	0.01	0.08	0.09	0.01	0.02	0.03	—	293	293	< 0.005	0.05	0.28	307
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.04	0.48	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	125	125	< 0.005	< 0.005	0.19	126
Vendor	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	50.7	50.7	< 0.005	0.01	0.05	53.0
Hauling	< 0.005	< 0.005	0.06	0.01	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	0.01	—	48.6	48.6	< 0.005	0.01	0.05	50.9

3.24. Battery/Container Installation (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	0.51	0.51	8.86	27.3	0.04	0.19	—	0.19	0.17	—	0.17	—	4,184	4,184	0.17	0.03	—	4,199
Onsite truck	0.02	0.01	0.29	0.20	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	45.7	45.7	< 0.005	0.01	0.03	47.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.51	0.51	8.86	27.3	0.04	0.19	—	0.19	0.17	—	0.17	—	4,184	4,184	0.17	0.03	—	4,199
Onsite truck	0.02	0.01	0.30	0.21	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	46.5	46.5	< 0.005	0.01	< 0.005	48.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.19	0.19	3.30	10.2	0.01	0.07	—	0.07	0.06	—	0.06	—	1,556	1,556	0.06	0.01	—	1,561
Onsite truck	0.01	0.01	0.11	0.08	< 0.005	< 0.005	0.58	0.59	< 0.005	0.06	0.06	—	17.1	17.1	< 0.005	< 0.005	0.01	18.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.60	1.85	< 0.005	0.01	—	0.01	0.01	—	0.01	—	258	258	0.01	< 0.005	—	258
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.11	0.11	< 0.005	0.01	0.01	—	2.83	2.83	< 0.005	< 0.005	< 0.005	2.97
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.31	0.30	0.50	9.83	0.00	0.00	2.12	2.12	0.00	0.50	0.50	—	2,207	2,207	0.01	0.07	7.25	2,235
Vendor	0.03	0.02	0.82	0.22	0.01	0.01	0.23	0.25	0.01	0.06	0.08	—	824	824	0.01	0.12	1.85	862
Hauling	0.03	0.01	0.83	0.15	0.01	0.02	0.22	0.24	0.02	0.06	0.08	—	789	789	0.01	0.12	1.77	828
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.29	0.22	0.63	6.30	0.00	0.00	2.12	2.12	0.00	0.50	0.50	—	1,951	1,951	0.01	0.07	0.19	1,973
Vendor	0.03	0.02	0.87	0.23	0.01	0.01	0.23	0.25	0.01	0.06	0.08	—	824	824	0.01	0.12	0.05	860
Hauling	0.02	0.01	0.88	0.15	0.01	0.02	0.22	0.24	0.02	0.06	0.08	—	789	789	0.01	0.12	0.05	826
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.11	0.21	2.65	0.00	0.00	0.78	0.78	0.00	0.18	0.18	—	753	753	< 0.005	0.03	1.16	762
Vendor	0.01	0.01	0.32	0.08	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	306	306	0.01	0.04	0.30	320
Hauling	0.01	< 0.005	0.32	0.05	< 0.005	0.01	0.08	0.09	0.01	0.02	0.03	—	293	293	< 0.005	0.05	0.28	307
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.04	0.48	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	125	125	< 0.005	< 0.005	0.19	126
Vendor	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	50.7	50.7	< 0.005	0.01	0.05	53.0

Hauling	< 0.005	< 0.005	0.06	0.01	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	0.01	—	48.6	48.6	< 0.005	0.01	0.05	50.9

3.25. Battery/Container Installation (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.51	0.51	8.86	27.3	0.04	0.19	—	0.19	0.17	—	0.17	—	4,185	4,185	0.17	0.03	—	4,199
Onsite truck	0.02	0.01	0.30	0.21	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	45.5	45.5	< 0.005	0.01	< 0.005	47.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.99	3.05	< 0.005	0.02	—	0.02	0.02	—	0.02	—	467	467	0.02	< 0.005	—	468
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.18	0.18	< 0.005	0.02	0.02	—	5.02	5.02	< 0.005	< 0.005	< 0.005	5.27
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.18	0.56	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	77.3	77.3	< 0.005	< 0.005	—	77.6
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.83	0.83	< 0.005	< 0.005	< 0.005	0.87
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.28	0.21	0.57	5.80	0.00	0.00	2.12	2.12	0.00	0.50	0.50	—	1,914	1,914	0.01	0.07	0.17	1,936
Vendor	0.03	0.02	0.83	0.22	0.01	0.01	0.23	0.25	0.01	0.06	0.08	—	803	803	0.01	0.12	0.04	840
Hauling	0.02	0.01	0.86	0.15	0.01	0.02	0.22	0.24	0.02	0.06	0.08	—	769	769	0.01	0.12	0.04	806
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.06	0.74	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	221	221	< 0.005	0.01	0.31	224
Vendor	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	89.6	89.6	< 0.005	0.01	0.08	93.7
Hauling	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	85.8	85.8	< 0.005	0.01	0.08	89.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.01	0.13	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	36.7	36.7	< 0.005	< 0.005	0.05	37.1
Vendor	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.8	14.8	< 0.005	< 0.005	0.01	15.5
Hauling	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.2	14.2	< 0.005	< 0.005	0.01	14.9

3.26. Battery/Container Installation (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.51	0.51	8.86	27.3	0.04	0.19	—	0.19	0.17	—	0.17	—	4,185	4,185	0.17	0.03	—	4,199
Onsite truck	0.02	0.01	0.30	0.21	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	45.5	45.5	< 0.005	0.01	< 0.005	47.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.99	3.05	< 0.005	0.02	—	0.02	0.02	—	0.02	—	467	467	0.02	< 0.005	—	468
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.18	0.18	< 0.005	0.02	0.02	—	5.02	5.02	< 0.005	< 0.005	< 0.005	5.27
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.18	0.56	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	77.3	77.3	< 0.005	< 0.005	—	77.6
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.83	0.83	< 0.005	< 0.005	< 0.005	0.87
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.28	0.21	0.57	5.80	0.00	0.00	2.12	2.12	0.00	0.50	0.50	—	1,914	1,914	0.01	0.07	0.17	1,936
Vendor	0.03	0.02	0.83	0.22	0.01	0.01	0.23	0.25	0.01	0.06	0.08	—	803	803	0.01	0.12	0.04	840
Hauling	0.02	0.01	0.86	0.15	0.01	0.02	0.22	0.24	0.02	0.06	0.08	—	769	769	0.01	0.12	0.04	806
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.06	0.74	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	221	221	< 0.005	0.01	0.31	224
Vendor	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	89.6	89.6	< 0.005	0.01	0.08	93.7

Hauling	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	85.8	85.8	< 0.005	0.01	0.08	89.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.01	0.13	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	36.7	36.7	< 0.005	< 0.005	0.05	37.1
Vendor	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.8	14.8	< 0.005	< 0.005	0.01	15.5
Hauling	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.2	14.2	< 0.005	< 0.005	0.01	14.9

3.27. PG&E Tranquility Switching Station Upgrades (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	1.93	1.62	14.1	17.8	0.04	0.55	—	0.55	0.50	—	0.50	—	3,781	3,781	0.15	0.03	—	3,794
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	9.93	9.93	< 0.005	< 0.005	0.01	10.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.93	1.62	14.1	17.8	0.04	0.55	—	0.55	0.50	—	0.50	—	3,781	3,781	0.15	0.03	—	3,794
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.39	3.41	4.30	0.01	0.13	—	0.13	0.12	—	0.12	—	912	912	0.04	0.01	—	915

Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.08	0.08	< 0.005	0.01	0.01	—	2.41	2.41	< 0.005	< 0.005	< 0.005	2.53
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.07	0.62	0.78	< 0.005	0.02	—	0.02	0.02	—	0.02	—	151	151	0.01	< 0.005	—	151
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.40	0.40	< 0.005	< 0.005	< 0.005	0.42
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.09	0.17	3.66	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	866	866	< 0.005	0.03	2.61	877
Vendor	< 0.005	< 0.005	0.11	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	115	115	< 0.005	0.02	0.23	120
Hauling	0.01	< 0.005	0.40	0.07	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	384	384	0.01	0.06	0.81	404
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.08	0.23	2.32	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	766	766	< 0.005	0.03	0.07	774
Vendor	< 0.005	< 0.005	0.12	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	115	115	< 0.005	0.02	0.01	120
Hauling	0.01	< 0.005	0.43	0.07	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	384	384	0.01	0.06	0.02	403
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.05	0.64	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	191	191	< 0.005	0.01	0.27	194
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	27.7	27.7	< 0.005	< 0.005	0.02	28.9
Hauling	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	92.7	92.7	< 0.005	0.01	0.08	97.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.12	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	31.7	31.7	< 0.005	< 0.005	0.05	32.1
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.58	4.58	< 0.005	< 0.005	< 0.005	4.79
Hauling	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	15.3	15.3	< 0.005	< 0.005	0.01	16.1

3.28. PG&E Tranquility Switching Station Upgrades (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	1.93	1.62	14.1	17.8	0.04	0.55	—	0.55	0.50	—	0.50	—	3,781	3,781	0.15	0.03	—	3,794
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	9.93	9.93	< 0.005	< 0.005	0.01	10.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.93	1.62	14.1	17.8	0.04	0.55	—	0.55	0.50	—	0.50	—	3,781	3,781	0.15	0.03	—	3,794
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.39	3.41	4.30	0.01	0.13	—	0.13	0.12	—	0.12	—	912	912	0.04	0.01	—	915
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.08	0.08	< 0.005	0.01	0.01	—	2.41	2.41	< 0.005	< 0.005	< 0.005	2.53
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.07	0.62	0.78	< 0.005	0.02	—	0.02	0.02	—	0.02	—	151	151	0.01	< 0.005	—	151

Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.40	0.40	< 0.005	< 0.005	< 0.005	0.42
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.09	0.17	3.66	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	866	866	< 0.005	0.03	2.61	877
Vendor	< 0.005	< 0.005	0.11	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	115	115	< 0.005	0.02	0.23	120
Hauling	0.01	< 0.005	0.40	0.07	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	384	384	0.01	0.06	0.81	404
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.08	0.23	2.32	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	766	766	< 0.005	0.03	0.07	774
Vendor	< 0.005	< 0.005	0.12	0.03	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	115	115	< 0.005	0.02	0.01	120
Hauling	0.01	< 0.005	0.43	0.07	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	384	384	0.01	0.06	0.02	403
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.05	0.64	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	191	191	< 0.005	0.01	0.27	194
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	27.7	27.7	< 0.005	< 0.005	0.02	28.9
Hauling	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	92.7	92.7	< 0.005	0.01	0.08	97.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.12	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	31.7	31.7	< 0.005	< 0.005	0.05	32.1
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.58	4.58	< 0.005	< 0.005	< 0.005	4.79
Hauling	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	15.3	15.3	< 0.005	< 0.005	0.01	16.1

3.29. Underground Work (2027) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	0.25	6.42	12.2	0.02	0.09	—	0.09	0.08	—	0.08	—	1,668	1,668	0.07	0.01	—	1,674
Onsite truck	0.01	0.01	0.16	0.11	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	25.4	25.4	< 0.005	< 0.005	0.02	26.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	1.93	3.69	< 0.005	0.03	—	0.03	0.02	—	0.02	—	503	503	0.02	< 0.005	—	504
Onsite truck	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	0.26	0.26	< 0.005	0.03	0.03	—	7.70	7.70	< 0.005	< 0.005	< 0.005	8.09
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.35	0.67	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	83.2	83.2	< 0.005	< 0.005	—	83.5
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	—	1.27	1.27	< 0.005	< 0.005	< 0.005	1.34
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.49	0.49	0.79	15.7	0.00	0.00	3.39	3.39	0.00	0.79	0.79	—	3,531	3,531	0.01	0.11	11.6	3,576
Vendor	0.02	0.01	0.58	0.16	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	588	588	0.01	0.09	1.32	615
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	0.14	0.14	0.27	3.44	0.00	0.00	1.01	1.01	0.00	0.24	0.24	—	976	976	< 0.005	0.03	1.51	988
Vendor	0.01	< 0.005	0.18	0.05	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	177	177	< 0.005	0.03	0.17	185
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	0.03	0.03	0.05	0.63	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	162	162	< 0.005	0.01	0.25	164
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	29.4	29.4	< 0.005	< 0.005	0.03	30.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.30. Underground Work (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	0.25	0.25	6.42	12.2	0.02	0.09	—	0.09	0.08	—	0.08	—	1,668	1,668	0.07	0.01	—	1,674
Onsite truck	0.01	0.01	0.16	0.11	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	25.4	25.4	< 0.005	< 0.005	0.02	26.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.07	0.07	1.93	3.69	< 0.005	0.03	—	0.03	0.02	—	0.02	—	503	503	0.02	< 0.005	—	504
Onsite truck	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	0.26	0.26	< 0.005	0.03	0.03	—	7.70	7.70	< 0.005	< 0.005	< 0.005	8.09
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.35	0.67	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	83.2	83.2	< 0.005	< 0.005	—	83.5
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	—	1.27	1.27	< 0.005	< 0.005	< 0.005	1.34
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.49	0.49	0.79	15.7	0.00	0.00	3.39	3.39	0.00	0.79	0.79	—	3,531	3,531	0.01	0.11	11.6	3,576
Vendor	0.02	0.01	0.58	0.16	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	588	588	0.01	0.09	1.32	615
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	0.14	0.14	0.27	3.44	0.00	0.00	1.01	1.01	0.00	0.24	0.24	—	976	976	< 0.005	0.03	1.51	988
Vendor	0.01	< 0.005	0.18	0.05	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	177	177	< 0.005	0.03	0.17	185
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	0.03	0.03	0.05	0.63	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	162	162	< 0.005	0.01	0.25	164
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	29.4	29.4	< 0.005	< 0.005	0.03	30.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

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.

4.1.2. Mitigated

Mobile source emissions results are presented in Sections 2.5. 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	—	—	—	—	—	—	—	—	—	—	—	—	7,383	7,383	1.19	0.14	—	7,456
Total	—	—	—	—	—	—	—	—	—	—	—	—	7,383	7,383	1.19	0.14	—	7,456
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	7,383	7,383	1.19	0.14	—	7,456
Total	—	—	—	—	—	—	—	—	—	—	—	—	7,383	7,383	1.19	0.14	—	7,456
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	1,222	1,222	0.20	0.02	—	1,234

Total	—	—	—	—	—	—	—	—	—	—	—	—	1,222	1,222	0.20	0.02	—	1,234

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	7,383	7,383	1.19	0.14	—	7,456
Total	—	—	—	—	—	—	—	—	—	—	—	—	7,383	7,383	1.19	0.14	—	7,456
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	7,383	7,383	1.19	0.14	—	7,456
Total	—	—	—	—	—	—	—	—	—	—	—	—	7,383	7,383	1.19	0.14	—	7,456
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	1,222	1,222	0.20	0.02	—	1,234
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,222	1,222	0.20	0.02	—	1,234

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
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
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
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

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

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
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	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.3.2. Mitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coating	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	—	—	—	—	—	—	—	—	—	—	—	0.00	16.1	16.1	0.95	< 0.005	—	41.0
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	16.1	16.1	0.95	< 0.005	—	41.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.00	16.1	16.1	0.95	< 0.005	—	41.0
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	16.1	16.1	0.95	< 0.005	—	41.0

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.00	2.67	2.67	0.16	< 0.005	—	6.79
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	2.67	2.67	0.16	< 0.005	—	6.79

4.4.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.00	11.9	11.9	0.95	< 0.005	—	36.8
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	11.9	11.9	0.95	< 0.005	—	36.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.00	11.9	11.9	0.95	< 0.005	—	36.8
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	11.9	11.9	0.95	< 0.005	—	36.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.00	1.98	1.98	0.16	< 0.005	—	6.09
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	1.98	1.98	0.16	< 0.005	—	6.09

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	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Total	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Total	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.33	0.00	0.33	0.03	0.00	—	1.16
Total	—	—	—	—	—	—	—	—	—	—	—	0.33	0.00	0.33	0.03	0.00	—	1.16

4.5.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Total	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Total	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.33	0.00	0.33	0.03	0.00	—	1.16
Total	—	—	—	—	—	—	—	—	—	—	—	0.33	0.00	0.33	0.03	0.00	—	1.16

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13

4.6.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.7.2. Mitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

4.8.2. Mitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.9.2. Mitigated

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Decommissioning	Demolition	1/1/2050	10/5/2050	5.00	198	—
Move-On	Site Preparation	12/1/2026	12/14/2026	5.00	10.0	—
Cleanup/Testing/Restoration	Site Preparation	1/27/2028	5/29/2028	5.00	88.0	—
Site Preparation and Grading	Grading	12/15/2026	4/15/2027	5.00	88.0	—
Substation Construction	Building Construction	5/17/2027	5/12/2028	5.00	260	—
System Installation - Solar Facility	Building Construction	9/17/2027	5/19/2028	5.00	176	—
Gen-tie Line Installation	Building Construction	5/25/2027	5/22/2028	5.00	260	—
Battery/Container Installation	Building Construction	6/25/2027	2/26/2028	5.00	176	—

PG&E Tranquility Switching Station Upgrades	Building Construction	1/27/2028	5/29/2028	5.00	88.0	—
Underground Work	Trenching	4/16/2027	9/16/2027	5.00	110	—

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
Decommissioning	Tractors/Loaders/Backhoes	Diesel	Average	1.00	6.00	84.0	0.37
Move-On	Graders	Diesel	Tier 3	2.00	6.00	148	0.41
Move-On	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2.00	6.00	84.0	0.37
Move-On	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	6.00	367	0.40
Move-On	Scrapers	Diesel	Tier 3	2.00	6.00	423	0.48
Move-On	Rubber Tired Loaders	Diesel	Tier 4 Final	2.00	6.00	150	0.36
Move-On	Skid Steer Loaders	Diesel	Tier 4 Final	3.00	6.00	71.0	0.37
Move-On	Generator Sets	Diesel	Tier 4 Final	1.00	24.0	25.0	0.74
Cleanup/Testing/Restoration	Tractors/Loaders/Backhoes	Diesel	Tier 3	1.00	4.00	84.0	0.37
Cleanup/Testing/Restoration	Graders	Diesel	Tier 3	1.00	6.00	148	0.41
Cleanup/Testing/Restoration	Scrapers	Diesel	Tier 3	2.00	6.00	423	0.48
Site Preparation and Grading	Pumps	Diesel	Tier 4 Final	2.00	8.00	25.0	0.74
Site Preparation and Grading	Graders	Diesel	Tier 3	2.00	8.00	148	0.41
Site Preparation and Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	3.00	367	0.40

Site Preparation and Grading	Scrapers	Diesel	Tier 4 Final	3.00	6.00	423	0.48
Site Preparation and Grading	Rubber Tired Loaders	Diesel	Tier 4 Final	3.00	6.00	150	0.36
Site Preparation and Grading	Tractors/Loaders/Backhoes	Diesel	Tier 3	4.00	6.00	84.0	0.37
Site Preparation and Grading	Rollers	Diesel	Tier 4 Final	1.00	3.00	36.0	0.38
Site Preparation and Grading	Skid Steer Loaders	Diesel	Tier 4 Final	2.00	6.00	71.0	0.37
Site Preparation and Grading	Generator Sets	Diesel	Tier 4 Final	2.00	24.0	25.0	0.74
Substation Construction	Generator Sets	Diesel	Tier 4 Final	1.00	12.0	25.0	0.74
Substation Construction	Other General Industrial Equipment	Diesel	Tier 4 Final	1.00	4.00	35.0	0.34
Substation Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	4.00	84.0	0.37
Substation Construction	Cranes	Diesel	Tier 4 Final	1.00	5.00	367	0.29
Substation Construction	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00	4.00	96.0	0.40
Substation Construction	Aerial Lifts	Diesel	Tier 4 Final	1.00	4.00	46.0	0.31
Substation Construction	Graders	Diesel	Tier 4 Final	1.00	6.00	148	0.41
Substation Construction	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	3.00	367	0.40
Substation Construction	Scrapers	Diesel	Tier 3	1.00	4.00	423	0.48
Substation Construction	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	3.00	150	0.36
Substation Construction	Excavators	Diesel	Tier 4 Final	1.00	4.00	36.0	0.38

Substation Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	6.00	84.0	0.37
System Installation - Solar Facility	Rough Terrain Forklifts	Diesel	Tier 4 Final	5.00	4.00	96.0	0.40
System Installation - Solar Facility	Aerial Lifts	Diesel	Tier 4 Final	3.00	4.00	46.0	0.31
System Installation - Solar Facility	Skid Steer Loaders	Diesel	Tier 4 Final	10.0	4.00	71.0	0.37
System Installation - Solar Facility	Air Compressors	Diesel	Tier 4 Final	1.00	6.00	37.0	0.48
System Installation - Solar Facility	Other Construction Equipment	Diesel	Tier 4 Final	15.0	6.00	82.0	0.42
System Installation - Solar Facility	Generator Sets	Diesel	Tier 4 Final	2.00	24.0	25.0	0.74
Gen-tie Line Installation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	4.00	84.0	0.37
Gen-tie Line Installation	Cranes	Diesel	Tier 4 Final	1.00	4.00	367	0.29
Gen-tie Line Installation	Crawler Tractors	Diesel	Tier 4 Final	1.00	4.00	87.0	0.43
Gen-tie Line Installation	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	2.00	83.0	0.50
Gen-tie Line Installation	Rough Terrain Forklifts	Diesel	Tier 4 Final	1.00	4.00	96.0	0.40
Gen-tie Line Installation	Other Construction Equipment	Diesel	Tier 4 Final	1.00	4.00	82.0	0.42
Gen-tie Line Installation	Generator Sets	Diesel	Tier 4 Final	1.00	4.00	25.0	0.74
Battery/Container Installation	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	8.00	150	0.36
Battery/Container Installation	Excavators	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
Battery/Container Installation	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00	8.00	96.0	0.40

Battery/Container Installation	Cranes	Diesel	Tier 4 Final	1.00	8.00	367	0.29
Battery/Container Installation	Graders	Diesel	Tier 3	1.00	8.00	148	0.41
Battery/Container Installation	Skid Steer Loaders	Diesel	Tier 4 Final	2.00	8.00	71.0	0.37
Battery/Container Installation	Welders	Diesel	Tier 4 Final	1.00	8.00	46.0	0.45
Battery/Container Installation	Generator Sets	Diesel	Tier 4 Final	1.00	8.00	25.0	0.74
Battery/Container Installation	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	8.00	83.0	0.50
PG&E Tranquility Switching Station Upgrades	Generator Sets	Diesel	Average	1.00	12.0	14.0	0.74
PG&E Tranquility Switching Station Upgrades	Other General Industrial Equipment	Diesel	Average	1.00	4.00	35.0	0.34
PG&E Tranquility Switching Station Upgrades	Tractors/Loaders/Backhoes	Diesel	Average	2.00	5.00	84.0	0.37
PG&E Tranquility Switching Station Upgrades	Cranes	Diesel	Average	1.00	5.00	367	0.29
PG&E Tranquility Switching Station Upgrades	Rough Terrain Forklifts	Diesel	Average	2.00	4.00	96.0	0.40
PG&E Tranquility Switching Station Upgrades	Aerial Lifts	Diesel	Average	1.00	4.00	46.0	0.31
PG&E Tranquility Switching Station Upgrades	Graders	Diesel	Average	1.00	6.00	148	0.41
PG&E Tranquility Switching Station Upgrades	Rubber Tired Dozers	Diesel	Average	1.00	3.00	367	0.40

PG&E Tranquility Switching Station Upgrades	Scrapers	Diesel	Average	1.00	4.00	423	0.48
PG&E Tranquility Switching Station Upgrades	Rubber Tired Loaders	Diesel	Average	1.00	3.00	150	0.36
PG&E Tranquility Switching Station Upgrades	Excavators	Diesel	Average	1.00	4.00	36.0	0.38
Underground Work	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	6.00	84.0	0.37
Underground Work	Trenchers	Diesel	Tier 4 Final	5.00	6.00	40.0	0.50
Underground Work	Plate Compactors	Diesel	Tier 4 Final	1.00	6.00	25.0	0.43
Underground Work	Excavators	Diesel	Tier 4 Final	1.00	4.00	36.0	0.38
Underground Work	Other Construction Equipment	Diesel	Tier 4 Final	1.00	6.00	82.0	0.42
Underground Work	Tractors/Loaders/Backhoes	Diesel	Tier 3	2.00	4.00	84.0	0.37
Underground Work	Rollers	Diesel	Tier 4 Final	2.00	2.00	36.0	0.38

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Decommissioning	Tractors/Loaders/Backhoes	Diesel	Average	1.00	6.00	84.0	0.37
Move-On	Graders	Diesel	Tier 3	2.00	6.00	148	0.41
Move-On	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2.00	6.00	84.0	0.37
Move-On	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	6.00	367	0.40
Move-On	Scrapers	Diesel	Tier 3	2.00	6.00	423	0.48
Move-On	Rubber Tired Loaders	Diesel	Tier 4 Final	2.00	6.00	150	0.36
Move-On	Skid Steer Loaders	Diesel	Tier 4 Final	3.00	6.00	71.0	0.37
Move-On	Generator Sets	Diesel	Tier 4 Final	1.00	24.0	25.0	0.74

Cleanup/Testing/Resto	Tractors/Loaders/Back	Diesel	Tier 3	1.00	4.00	84.0	0.37
Cleanup/Testing/Restoration	Graders	Diesel	Tier 3	1.00	6.00	148	0.41
Cleanup/Testing/Restoration	Scrapers	Diesel	Tier 3	2.00	6.00	423	0.48
Site Preparation and Grading	Pumps	Diesel	Tier 4 Final	2.00	8.00	25.0	0.74
Site Preparation and Grading	Graders	Diesel	Tier 3	2.00	8.00	148	0.41
Site Preparation and Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	3.00	367	0.40
Site Preparation and Grading	Scrapers	Diesel	Tier 4 Final	3.00	6.00	423	0.48
Site Preparation and Grading	Rubber Tired Loaders	Diesel	Tier 4 Final	3.00	6.00	150	0.36
Site Preparation and Grading	Tractors/Loaders/Backhoes	Diesel	Tier 3	4.00	6.00	84.0	0.37
Site Preparation and Grading	Rollers	Diesel	Tier 4 Final	1.00	3.00	36.0	0.38
Site Preparation and Grading	Skid Steer Loaders	Diesel	Tier 4 Final	2.00	6.00	71.0	0.37
Site Preparation and Grading	Generator Sets	Diesel	Tier 4 Final	2.00	24.0	25.0	0.74
Substation Construction	Generator Sets	Diesel	Tier 4 Final	1.00	12.0	25.0	0.74
Substation Construction	Other General Industrial Equipment	Diesel	Tier 4 Final	1.00	4.00	35.0	0.34
Substation Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	4.00	84.0	0.37
Substation Construction	Cranes	Diesel	Tier 4 Final	1.00	5.00	367	0.29
Substation Construction	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00	4.00	96.0	0.40
Substation Construction	Aerial Lifts	Diesel	Tier 4 Final	1.00	4.00	46.0	0.31

Substation Construction	Graders	Diesel	Tier 4 Final	1.00	6.00	148	0.41
Substation Construction	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	3.00	367	0.40
Substation Construction	Scrapers	Diesel	Tier 3	1.00	4.00	423	0.48
Substation Construction	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	3.00	150	0.36
Substation Construction	Excavators	Diesel	Tier 4 Final	1.00	4.00	36.0	0.38
Substation Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	6.00	84.0	0.37
System Installation - Solar Facility	Rough Terrain Forklifts	Diesel	Tier 4 Final	5.00	4.00	96.0	0.40
System Installation - Solar Facility	Aerial Lifts	Diesel	Tier 4 Final	3.00	4.00	46.0	0.31
System Installation - Solar Facility	Skid Steer Loaders	Diesel	Tier 4 Final	10.0	4.00	71.0	0.37
System Installation - Solar Facility	Air Compressors	Diesel	Tier 4 Final	1.00	6.00	37.0	0.48
System Installation - Solar Facility	Other Construction Equipment	Diesel	Tier 4 Final	15.0	6.00	82.0	0.42
System Installation - Solar Facility	Generator Sets	Diesel	Tier 4 Final	2.00	24.0	25.0	0.74
Gen-tie Line Installation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	4.00	84.0	0.37
Gen-tie Line Installation	Cranes	Diesel	Tier 4 Final	1.00	4.00	367	0.29
Gen-tie Line Installation	Crawler Tractors	Diesel	Tier 4 Final	1.00	4.00	87.0	0.43
Gen-tie Line Installation	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	2.00	83.0	0.50
Gen-tie Line Installation	Rough Terrain Forklifts	Diesel	Tier 4 Final	1.00	4.00	96.0	0.40

Gen-tie Line Installation	Other Construction Equipment	Diesel	Tier 4 Final	1.00	4.00	82.0	0.42
Gen-tie Line Installation	Generator Sets	Diesel	Tier 4 Final	1.00	4.00	25.0	0.74
Battery/Container Installation	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	8.00	150	0.36
Battery/Container Installation	Excavators	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
Battery/Container Installation	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00	8.00	96.0	0.40
Battery/Container Installation	Cranes	Diesel	Tier 4 Final	1.00	8.00	367	0.29
Battery/Container Installation	Graders	Diesel	Tier 3	1.00	8.00	148	0.41
Battery/Container Installation	Skid Steer Loaders	Diesel	Tier 4 Final	2.00	8.00	71.0	0.37
Battery/Container Installation	Welders	Diesel	Tier 4 Final	1.00	8.00	46.0	0.45
Battery/Container Installation	Generator Sets	Diesel	Tier 4 Final	1.00	8.00	25.0	0.74
Battery/Container Installation	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	8.00	83.0	0.50
PG&E Tranquility Switching Station Upgrades	Generator Sets	Diesel	Average	1.00	12.0	14.0	0.74
PG&E Tranquility Switching Station Upgrades	Other General Industrial Equipment	Diesel	Average	1.00	4.00	35.0	0.34
PG&E Tranquility Switching Station Upgrades	Tractors/Loaders/Backhoes	Diesel	Average	2.00	5.00	84.0	0.37
PG&E Tranquility Switching Station Upgrades	Cranes	Diesel	Average	1.00	5.00	367	0.29

PG&E Tranquility Switching Station Upgrades	Rough Terrain Forklifts	Diesel	Average	2.00	4.00	96.0	0.40
PG&E Tranquility Switching Station Upgrades	Aerial Lifts	Diesel	Average	1.00	4.00	46.0	0.31
PG&E Tranquility Switching Station Upgrades	Graders	Diesel	Average	1.00	6.00	148	0.41
PG&E Tranquility Switching Station Upgrades	Rubber Tired Dozers	Diesel	Average	1.00	3.00	367	0.40
PG&E Tranquility Switching Station Upgrades	Scrapers	Diesel	Average	1.00	4.00	423	0.48
PG&E Tranquility Switching Station Upgrades	Rubber Tired Loaders	Diesel	Average	1.00	3.00	150	0.36
PG&E Tranquility Switching Station Upgrades	Excavators	Diesel	Average	1.00	4.00	36.0	0.38
Underground Work	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	6.00	84.0	0.37
Underground Work	Trenchers	Diesel	Tier 4 Final	5.00	6.00	40.0	0.50
Underground Work	Plate Compactors	Diesel	Tier 4 Final	1.00	6.00	25.0	0.43
Underground Work	Excavators	Diesel	Tier 4 Final	1.00	4.00	36.0	0.38
Underground Work	Other Construction Equipment	Diesel	Tier 4 Final	1.00	6.00	82.0	0.42
Underground Work	Tractors/Loaders/Backhoes	Diesel	Tier 3	2.00	4.00	84.0	0.37
Underground Work	Rollers	Diesel	Tier 4 Final	2.00	2.00	36.0	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Move-On	—	—	—	—
Move-On	Worker	20.0	60.0	LDA,LDT1,LDT2
Move-On	Vendor	10.0	20.0	HHDT,MHDT
Move-On	Hauling	2.00	60.0	HHDT
Move-On	Onsite truck	12.0	0.25	HHDT
Site Preparation and Grading	—	—	—	—
Site Preparation and Grading	Worker	150	60.0	LDA,LDT1,LDT2
Site Preparation and Grading	Vendor	10.0	20.0	HHDT,MHDT
Site Preparation and Grading	Hauling	0.00	60.0	HHDT
Site Preparation and Grading	Onsite truck	10.0	0.25	HHDT
Substation Construction	—	—	—	—
Substation Construction	Worker	20.0	60.0	LDA,LDT1,LDT2
Substation Construction	Vendor	2.00	20.0	HHDT,MHDT
Substation Construction	Hauling	2.00	60.0	HHDT
Substation Construction	Onsite truck	4.00	0.25	HHDT
Decommissioning	—	—	—	—
Decommissioning	Worker	40.0	60.0	LDA,LDT1,LDT2
Decommissioning	Vendor	10.0	20.0	HHDT,MHDT
Decommissioning	Hauling	8.00	60.0	HHDT
Decommissioning	Onsite truck	18.0	0.25	HHDT
Cleanup/Testing/Restoration	—	—	—	—
Cleanup/Testing/Restoration	Worker	50.0	60.0	LDA,LDT1,LDT2
Cleanup/Testing/Restoration	Vendor	6.00	20.0	HHDT,MHDT
Cleanup/Testing/Restoration	Hauling	0.00	60.0	HHDT
Cleanup/Testing/Restoration	Onsite truck	6.00	0.25	HHDT
System Installation - Solar Facility	—	—	—	—
System Installation - Solar Facility	Worker	800	60.0	LDA,LDT1,LDT2

System Installation - Solar Facility	Vendor	10.0	20.0	HHDT,MHDT
System Installation - Solar Facility	Hauling	4.00	60.0	HHDT
System Installation - Solar Facility	Onsite truck	14.0	0.25	HHDT
Gen-tie Line Installation	—	—	—	—
Gen-tie Line Installation	Worker	20.0	60.0	LDA,LDT1,LDT2
Gen-tie Line Installation	Vendor	2.00	20.0	HHDT,MHDT
Gen-tie Line Installation	Hauling	2.00	60.0	HHDT
Gen-tie Line Installation	Onsite truck	4.00	0.25	HHDT
Battery/Container Installation	—	—	—	—
Battery/Container Installation	Worker	50.0	60.0	LDA,LDT1,LDT2
Battery/Container Installation	Vendor	14.0	20.0	HHDT,MHDT
Battery/Container Installation	Hauling	4.00	60.0	HHDT
Battery/Container Installation	Onsite truck	18.0	0.25	HHDT
PG&E Tranquility Switching Station Upgrades	—	—	—	—
PG&E Tranquility Switching Station Upgrades	Worker	20.0	60.0	LDA,LDT1,LDT2
PG&E Tranquility Switching Station Upgrades	Vendor	2.00	20.0	HHDT,MHDT
PG&E Tranquility Switching Station Upgrades	Hauling	2.00	60.0	HHDT
PG&E Tranquility Switching Station Upgrades	Onsite truck	4.00	0.25	HHDT
Underground Work	—	—	—	—
Underground Work	Worker	80.0	60.0	LDA,LDT1,LDT2
Underground Work	Vendor	10.0	20.0	HHDT,MHDT
Underground Work	Hauling	0.00	60.0	HHDT
Underground Work	Onsite truck	10.0	0.25	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Move-On	—	—	—	—
Move-On	Worker	20.0	60.0	LDA,LDT1,LDT2
Move-On	Vendor	10.0	20.0	HHDT,MHDT
Move-On	Hauling	2.00	60.0	HHDT
Move-On	Onsite truck	12.0	0.25	HHDT
Site Preparation and Grading	—	—	—	—
Site Preparation and Grading	Worker	150	60.0	LDA,LDT1,LDT2
Site Preparation and Grading	Vendor	10.0	20.0	HHDT,MHDT
Site Preparation and Grading	Hauling	0.00	60.0	HHDT
Site Preparation and Grading	Onsite truck	10.0	0.25	HHDT
Substation Construction	—	—	—	—
Substation Construction	Worker	20.0	60.0	LDA,LDT1,LDT2
Substation Construction	Vendor	2.00	20.0	HHDT,MHDT
Substation Construction	Hauling	2.00	60.0	HHDT
Substation Construction	Onsite truck	4.00	0.25	HHDT
Decommissioning	—	—	—	—
Decommissioning	Worker	40.0	60.0	LDA,LDT1,LDT2
Decommissioning	Vendor	10.0	20.0	HHDT,MHDT
Decommissioning	Hauling	8.00	60.0	HHDT
Decommissioning	Onsite truck	18.0	0.25	HHDT
Cleanup/Testing/Restoration	—	—	—	—
Cleanup/Testing/Restoration	Worker	50.0	60.0	LDA,LDT1,LDT2
Cleanup/Testing/Restoration	Vendor	6.00	20.0	HHDT,MHDT
Cleanup/Testing/Restoration	Hauling	0.00	60.0	HHDT
Cleanup/Testing/Restoration	Onsite truck	6.00	0.25	HHDT
System Installation - Solar Facility	—	—	—	—
System Installation - Solar Facility	Worker	800	60.0	LDA,LDT1,LDT2

System Installation - Solar Facility	Vendor	10.0	20.0	HHDT,MHDT
System Installation - Solar Facility	Hauling	4.00	60.0	HHDT
System Installation - Solar Facility	Onsite truck	14.0	0.25	HHDT
Gen-tie Line Installation	—	—	—	—
Gen-tie Line Installation	Worker	20.0	60.0	LDA,LDT1,LDT2
Gen-tie Line Installation	Vendor	2.00	20.0	HHDT,MHDT
Gen-tie Line Installation	Hauling	2.00	60.0	HHDT
Gen-tie Line Installation	Onsite truck	4.00	0.25	HHDT
Battery/Container Installation	—	—	—	—
Battery/Container Installation	Worker	50.0	60.0	LDA,LDT1,LDT2
Battery/Container Installation	Vendor	14.0	20.0	HHDT,MHDT
Battery/Container Installation	Hauling	4.00	60.0	HHDT
Battery/Container Installation	Onsite truck	18.0	0.25	HHDT
PG&E Tranquility Switching Station Upgrades	—	—	—	—
PG&E Tranquility Switching Station Upgrades	Worker	20.0	60.0	LDA,LDT1,LDT2
PG&E Tranquility Switching Station Upgrades	Vendor	2.00	20.0	HHDT,MHDT
PG&E Tranquility Switching Station Upgrades	Hauling	2.00	60.0	HHDT
PG&E Tranquility Switching Station Upgrades	Onsite truck	4.00	0.25	HHDT
Underground Work	—	—	—	—
Underground Work	Worker	80.0	60.0	LDA,LDT1,LDT2
Underground Work	Vendor	10.0	20.0	HHDT,MHDT
Underground Work	Hauling	0.00	60.0	HHDT
Underground Work	Onsite truck	10.0	0.25	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

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)

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Decommissioning	0.00	0.00	0.00	3,000	—
Move-On	—	—	26.3	0.00	—
Cleanup/Testing/Restoration	—	—	165	0.00	—
Site Preparation and Grading	—	—	2,412	0.00	—

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
General Light Industry	0.00	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	204	0.03	< 0.005
2027	0.00	204	0.03	< 0.005
2028	0.00	204	0.03	< 0.005
2050	0.00	204	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	36.0	0.00	0.00	9,386	529	0.00	0.00	137,970

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	36.0	0.00	0.00	9,386	529	0.00	0.00	137,970

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

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	4,500	1,500	—

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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

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	13,211,616	204	0.0330	0.0040	0.00

5.11.2. Mitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Light Industry	13,211,616	204	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	693,750	10,795,333

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Light Industry	693,750	10,795,333

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Light Industry	3.72	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Light Industry	3.72	—

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

5.14.2. Mitigated

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

5.15.2. Mitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. 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	29.2	annual days of extreme heat
Extreme Precipitation	0.15	annual days with precipitation above 20 mm

Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

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

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A

Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	62.7
AQ-PM	37.8
AQ-DPM	15.2
Drinking Water	75.2
Lead Risk Housing	78.0
Pesticides	86.7
Toxic Releases	17.8
Traffic	10.3
Effect Indicators	—

CleanUp Sites	58.2
Groundwater	71.8
Haz Waste Facilities/Generators	7.35
Impaired Water Bodies	58.7
Solid Waste	0.00
Sensitive Population	—
Asthma	87.9
Cardio-vascular	57.6
Low Birth Weights	66.6
Socioeconomic Factor Indicators	—
Education	99.8
Housing	77.6
Linguistic	99.9
Poverty	99.3
Unemployment	99.6

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	0.30796869
Employed	2.014628513
Median HI	3.413319646
Education	—
Bachelor's or higher	0.808417811
High school enrollment	100
Preschool enrollment	19.49185166
Transportation	—

Auto Access	12.42140382
Active commuting	40.07442577
Social	—
2-parent households	60.47735147
Voting	1.360195047
Neighborhood	—
Alcohol availability	34.0177082
Park access	30.89952521
Retail density	1.809316053
Supermarket access	61.52957783
Tree canopy	3.27216733
Housing	—
Homeownership	22.10958553
Housing habitability	9.482869242
Low-inc homeowner severe housing cost burden	2.386757346
Low-inc renter severe housing cost burden	44.14217888
Uncrowded housing	20.37726165
Health Outcomes	—
Insured adults	2.463749519
Arthritis	0.0
Asthma ER Admissions	12.0
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	27.7

Cognitively Disabled	85.7
Physically Disabled	78.7
Heart Attack ER Admissions	7.0
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	90.3
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	14.1
Elderly	89.5
English Speaking	0.2
Foreign-born	96.1
Outdoor Workers	0.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	74.7
Traffic Density	9.6
Traffic Access	0.0
Other Indices	—
Hardship	99.4
Other Decision Support	—

2016 Voting	9.1

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	85.0
Healthy Places Index Score for Project Location (b)	1.00
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Based on applicant provided information.
Construction: Off-Road Equipment	Based on applicant provided information.
Construction: Trips and VMT	Based on applicant provided information.
Operations: Vehicle Data	16 workers for operations and maintenance monday through friday.
Operations: Landscape Equipment	No landscaping equipment.
Operations: Energy Use	O&M building is all-electric. Auxiliary energy use for BESS.

Operations: Water and Waste Water	outdoor water use for panel washing. This also amortized the construction and decommissioning water use.
Construction: Dust From Material Movement	Based on the project description.
Operations: Fleet Mix	Based on worker and water delivery mix.

Heartland Solar Project Onsite Detailed Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Heartland Solar Project Onsite
Construction Start Date	12/1/2026
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.90
Precipitation (days)	21.2
Location	36.648752402721996, -120.39648375951309
County	Fresno
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2525
EDFZ	5
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific 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	3.00	1000sqft	0.07	3,000	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Water	W-1	Use Reclaimed Non-Potable Water

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.	7.08	6.69	55.1	125	0.19	1.52	3.91	5.44	1.40	0.74	1.82	—	20,083	20,083	0.95	0.25	0.68	20,181
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.40	6.98	64.7	156	0.23	1.71	5.60	7.31	1.57	1.20	2.16	—	24,355	24,355	1.17	0.32	0.02	24,479
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.83	1.77	17.5	53.2	0.08	0.40	2.11	2.46	0.37	0.30	0.63	—	8,067	8,067	0.37	0.10	0.09	8,107
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.33	0.32	3.20	9.71	0.01	0.07	0.39	0.45	0.07	0.06	0.11	—	1,336	1,336	0.06	0.02	0.02	1,342

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	5.19	5.09	35.0	117	0.16	0.56	3.88	4.44	0.53	0.74	1.26	—	17,118	17,118	0.83	0.23	0.68	17,207
2028	7.08	6.69	55.1	125	0.19	1.52	3.91	5.44	1.40	0.42	1.82	—	20,083	20,083	0.95	0.25	0.60	20,181
2050	0.16	0.14	1.06	1.95	< 0.005	0.01	1.69	1.70	0.01	0.17	0.18	—	298	298	0.02	0.01	< 0.005	302
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.72	1.70	23.2	61.1	0.10	0.72	3.97	4.69	0.65	1.20	1.85	—	9,914	9,914	0.43	0.10	< 0.005	9,955
2027	4.80	4.70	35.2	120	0.16	0.56	3.88	4.44	0.53	0.74	1.26	—	17,108	17,108	0.89	0.25	0.02	17,204
2028	7.40	6.98	64.7	156	0.23	1.71	5.60	7.31	1.57	0.59	2.16	—	24,355	24,355	1.17	0.32	0.02	24,479
2050	0.15	0.13	1.09	2.00	< 0.005	0.01	1.69	1.70	0.01	0.17	0.18	—	299	299	0.02	0.02	< 0.005	304
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.09	0.09	1.37	3.16	0.01	0.04	0.21	0.25	0.04	0.06	0.09	—	524	524	0.02	0.01	< 0.005	526
2027	1.80	1.77	17.5	53.2	0.08	0.35	2.11	2.46	0.33	0.30	0.63	—	8,067	8,067	0.37	0.10	0.09	8,107
2028	1.83	1.73	15.1	36.3	0.05	0.40	1.14	1.54	0.37	0.12	0.49	—	5,693	5,693	0.27	0.07	0.07	5,721
2050	0.08	0.07	0.58	1.07	< 0.005	< 0.005	0.86	0.87	< 0.005	0.09	0.09	—	162	162	0.01	0.01	< 0.005	164
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.02	0.02	0.25	0.58	< 0.005	0.01	0.04	0.05	0.01	0.01	0.02	—	86.7	86.7	< 0.005	< 0.005	< 0.005	87.1
2027	0.33	0.32	3.20	9.71	0.01	0.06	0.39	0.45	0.06	0.06	0.11	—	1,336	1,336	0.06	0.02	0.02	1,342
2028	0.33	0.32	2.75	6.63	0.01	0.07	0.21	0.28	0.07	0.02	0.09	—	942	942	0.05	0.01	0.01	947
2050	0.02	0.01	0.11	0.19	< 0.005	< 0.005	0.16	0.16	< 0.005	0.02	0.02	—	26.8	26.8	< 0.005	< 0.005	< 0.005	27.2

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2027	5.19	5.09	35.0	117	0.16	0.56	3.88	4.44	0.53	0.74	1.26	—	17,118	17,118	0.83	0.23	0.68	17,207
2028	7.08	6.69	55.1	125	0.19	1.52	3.91	5.44	1.40	0.42	1.82	—	20,083	20,083	0.95	0.25	0.60	20,181
2050	0.16	0.14	1.06	1.95	< 0.005	0.01	1.69	1.70	0.01	0.17	0.18	—	298	298	0.02	0.01	< 0.005	302
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.72	1.70	23.2	61.1	0.10	0.72	3.97	4.69	0.65	1.20	1.85	—	9,914	9,914	0.43	0.10	< 0.005	9,955
2027	4.80	4.70	35.2	120	0.16	0.56	3.88	4.44	0.53	0.74	1.26	—	17,108	17,108	0.89	0.25	0.02	17,204
2028	7.40	6.98	64.7	156	0.23	1.71	5.60	7.31	1.57	0.59	2.16	—	24,355	24,355	1.17	0.32	0.02	24,479
2050	0.15	0.13	1.09	2.00	< 0.005	0.01	1.69	1.70	0.01	0.17	0.18	—	299	299	0.02	0.02	< 0.005	304
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.09	0.09	1.37	3.16	0.01	0.04	0.21	0.25	0.04	0.06	0.09	—	524	524	0.02	0.01	< 0.005	526
2027	1.80	1.77	17.5	53.2	0.08	0.35	2.11	2.46	0.33	0.30	0.63	—	8,067	8,067	0.37	0.10	0.09	8,107
2028	1.83	1.73	15.1	36.3	0.05	0.40	1.14	1.54	0.37	0.12	0.49	—	5,693	5,693	0.27	0.07	0.07	5,721
2050	0.08	0.07	0.58	1.07	< 0.005	< 0.005	0.86	0.87	< 0.005	0.09	0.09	—	162	162	0.01	0.01	< 0.005	164
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.02	0.02	0.25	0.58	< 0.005	0.01	0.04	0.05	0.01	0.01	0.02	—	86.7	86.7	< 0.005	< 0.005	< 0.005	87.1
2027	0.33	0.32	3.20	9.71	0.01	0.06	0.39	0.45	0.06	0.06	0.11	—	1,336	1,336	0.06	0.02	0.02	1,342
2028	0.33	0.32	2.75	6.63	0.01	0.07	0.21	0.28	0.07	0.02	0.09	—	942	942	0.05	0.01	0.01	947
2050	0.02	0.01	0.11	0.19	< 0.005	< 0.005	0.16	0.16	< 0.005	0.02	0.02	—	26.8	26.8	< 0.005	< 0.005	< 0.005	27.2

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.16	0.16	0.02	0.23	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	2.00	67.8	69.8	1.16	0.01	0.80	102
Mit.	0.16	0.16	0.02	0.23	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	2.00	63.6	65.6	1.16	0.01	0.80	97.5

% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	6%	6%	—	—	—	4%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.15	0.15	0.02	0.32	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	2.00	67.2	69.2	1.17	0.01	0.78	101
Mit.	0.15	0.15	0.02	0.32	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	2.00	63.0	65.0	1.17	0.01	0.78	97.1
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	6%	6%	—	—	—	4%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.13	0.13	0.02	0.19	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.00	64.1	66.1	1.16	0.01	0.79	97.9
Mit.	0.13	0.13	0.02	0.19	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.00	59.9	62.0	1.16	0.01	0.79	93.6
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	7%	6%	—	—	—	4%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.02	0.02	< 0.005	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.33	10.6	11.0	0.19	< 0.005	0.13	16.2
Mit.	0.02	0.02	< 0.005	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.33	9.93	10.3	0.19	< 0.005	0.13	15.5
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	7%	6%	< 0.5%	1%	—	4%

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	0.09	0.09	0.02	0.23	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	11.6	11.6	< 0.005	< 0.005	0.02	12.5
Area	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	40.0	40.0	0.01	< 0.005	—	40.4

Water	—	—	—	—	—	—	—	—	—	—	—	0.00	16.1	16.1	0.95	< 0.005	—	41.0
Waste	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	0.16	0.16	0.02	0.23	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	2.00	67.8	69.8	1.16	0.01	0.80	102
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.08	0.08	0.02	0.32	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	11.1	11.1	0.01	< 0.005	< 0.005	12.1
Area	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	40.0	40.0	0.01	< 0.005	—	40.4
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	16.1	16.1	0.95	< 0.005	—	41.0
Waste	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	0.15	0.15	0.02	0.32	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	2.00	67.2	69.2	1.17	0.01	0.78	101
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.06	0.06	0.02	0.19	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.99	7.99	< 0.005	< 0.005	0.01	8.65
Area	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	40.0	40.0	0.01	< 0.005	—	40.4
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	16.1	16.1	0.95	< 0.005	—	41.0
Waste	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	0.13	0.13	0.02	0.19	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.00	64.1	66.1	1.16	0.01	0.79	97.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.01	0.01	< 0.005	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.32	1.32	< 0.005	< 0.005	< 0.005	1.43
Area	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	6.63	6.63	< 0.005	< 0.005	—	6.69
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	2.67	2.67	0.16	< 0.005	—	6.79
Waste	—	—	—	—	—	—	—	—	—	—	—	0.33	0.00	0.33	0.03	0.00	—	1.16

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Total	0.02	0.02	< 0.005	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.33	10.6	11.0	0.19	< 0.005	0.13	16.2

2.6. Operations Emissions by Sector, Mitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.09	0.09	0.02	0.23	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	11.6	11.6	< 0.005	< 0.005	0.02	12.5
Area	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	40.0	40.0	0.01	< 0.005	—	40.4
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	11.9	11.9	0.95	< 0.005	—	36.8
Waste	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	0.16	0.16	0.02	0.23	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	2.00	63.6	65.6	1.16	0.01	0.80	97.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.08	0.08	0.02	0.32	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	11.1	11.1	0.01	< 0.005	< 0.005	12.1
Area	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	40.0	40.0	0.01	< 0.005	—	40.4
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	11.9	11.9	0.95	< 0.005	—	36.8
Waste	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	0.15	0.15	0.02	0.32	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	2.00	63.0	65.0	1.17	0.01	0.78	97.1
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.06	0.06	0.02	0.19	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.99	7.99	< 0.005	< 0.005	0.01	8.65
Area	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	40.0	40.0	0.01	< 0.005	—	40.4
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	11.9	11.9	0.95	< 0.005	—	36.8
Waste	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	0.13	0.13	0.02	0.19	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.00	59.9	62.0	1.16	0.01	0.79	93.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.01	0.01	< 0.005	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.32	1.32	< 0.005	< 0.005	< 0.005	1.43
Area	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	6.63	6.63	< 0.005	< 0.005	—	6.69
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	1.98	1.98	0.16	< 0.005	—	6.09
Waste	—	—	—	—	—	—	—	—	—	—	—	0.33	0.00	0.33	0.03	0.00	—	1.16
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Total	0.02	0.02	< 0.005	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.33	9.93	10.3	0.19	< 0.005	0.13	15.5

3. Construction Emissions Details

3.1. Decommissioning (2050) - 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	0.07	0.06	0.59	1.43	< 0.005	0.01	—	0.01	0.01	—	0.01	—	218	218	0.01	< 0.005	—	218
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.02	0.01	0.25	0.21	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	38.0	38.0	< 0.005	0.01	< 0.005	39.9

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.59	1.43	< 0.005	0.01	—	0.01	0.01	—	0.01	—	218	218	0.01	< 0.005	—	218
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.02	0.01	0.27	0.22	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	38.9	38.9	< 0.005	0.01	< 0.005	40.7
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.32	0.78	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	118	118	< 0.005	< 0.005	—	118
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.14	0.12	< 0.005	< 0.005	0.85	0.85	< 0.005	0.09	0.09	—	20.8	20.8	< 0.005	< 0.005	< 0.005	21.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	19.5	19.5	< 0.005	< 0.005	—	19.6
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.16	0.16	< 0.005	0.02	0.02	—	3.45	3.45	< 0.005	< 0.005	< 0.005	3.61
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.01	0.14	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.3	11.3	< 0.005	< 0.005	< 0.005	11.9
Vendor	0.01	< 0.005	0.09	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.9	13.9	< 0.005	< 0.005	< 0.005	14.6

Hauling	0.01	0.01	0.11	0.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	16.9	16.9	< 0.005	< 0.005	< 0.005	17.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.02	0.18	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.7	10.7	< 0.005	< 0.005	< 0.005	11.6
Vendor	0.01	< 0.005	0.09	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.2	14.2	< 0.005	< 0.005	< 0.005	14.9
Hauling	0.01	0.01	0.12	0.10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	17.3	17.3	< 0.005	< 0.005	< 0.005	18.1
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.01	0.08	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	5.88	5.88	< 0.005	< 0.005	< 0.005	6.34
Vendor	< 0.005	< 0.005	0.05	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.59	7.59	< 0.005	< 0.005	< 0.005	7.97
Hauling	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.25	9.25	< 0.005	< 0.005	< 0.005	9.70
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.97	0.97	< 0.005	< 0.005	< 0.005	1.05
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.26	1.26	< 0.005	< 0.005	< 0.005	1.32
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.53	1.53	< 0.005	< 0.005	< 0.005	1.61

3.2. Decommissioning (2050) - 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	0.07	0.06	0.59	1.43	< 0.005	0.01	—	0.01	0.01	—	0.01	—	218	218	0.01	< 0.005	—	218
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.02	0.01	0.25	0.21	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	38.0	38.0	< 0.005	0.01	< 0.005	39.9

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.59	1.43	< 0.005	0.01	—	0.01	0.01	—	0.01	—	218	218	0.01	< 0.005	—	218
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.02	0.01	0.27	0.22	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	38.9	38.9	< 0.005	0.01	< 0.005	40.7
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.32	0.78	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	118	118	< 0.005	< 0.005	—	118
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.14	0.12	< 0.005	< 0.005	0.85	0.85	< 0.005	0.09	0.09	—	20.8	20.8	< 0.005	< 0.005	< 0.005	21.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	19.5	19.5	< 0.005	< 0.005	—	19.6
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.16	0.16	< 0.005	0.02	0.02	—	3.45	3.45	< 0.005	< 0.005	< 0.005	3.61
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.01	0.14	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.3	11.3	< 0.005	< 0.005	< 0.005	11.9
Vendor	0.01	< 0.005	0.09	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.9	13.9	< 0.005	< 0.005	< 0.005	14.6

Hauling	0.01	0.01	0.11	0.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	16.9	16.9	< 0.005	< 0.005	< 0.005	17.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.02	0.18	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.7	10.7	< 0.005	< 0.005	< 0.005	11.6
Vendor	0.01	< 0.005	0.09	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.2	14.2	< 0.005	< 0.005	< 0.005	14.9
Hauling	0.01	0.01	0.12	0.10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	17.3	17.3	< 0.005	< 0.005	< 0.005	18.1
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.01	0.08	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	5.88	5.88	< 0.005	< 0.005	< 0.005	6.34
Vendor	< 0.005	< 0.005	0.05	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.59	7.59	< 0.005	< 0.005	< 0.005	7.97
Hauling	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.25	9.25	< 0.005	< 0.005	< 0.005	9.70
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.97	0.97	< 0.005	< 0.005	< 0.005	1.05
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.26	1.26	< 0.005	< 0.005	< 0.005	1.32
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.53	1.53	< 0.005	< 0.005	< 0.005	1.61

3.3. Move-On (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	1.02	1.02	22.8	41.2	0.07	0.72	—	0.72	0.65	—	0.65	—	7,022	7,022	0.28	0.06	—	7,046

Dust From Material Movement	—	—	—	—	—	—	2.85	2.85	—	1.09	1.09	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.20	0.14	< 0.005	< 0.005	1.11	1.11	< 0.005	0.11	0.11	—	31.6	31.6	< 0.005	0.01	< 0.005	33.2
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.63	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	192	192	0.01	< 0.005	—	193
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.86	0.86	< 0.005	< 0.005	< 0.005	0.90
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.11	0.21	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	31.9	31.9	< 0.005	< 0.005	—	32.0
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.02	0.25	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.93	6.93	< 0.005	< 0.005	< 0.005	7.60

Vendor	0.01	< 0.005	0.12	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.6	18.6	< 0.005	< 0.005	< 0.005	19.5
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.27	5.27	< 0.005	< 0.005	< 0.005	5.53
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	—	0.19	0.19	< 0.005	< 0.005	< 0.005	0.21
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.51	0.51	< 0.005	< 0.005	< 0.005	0.53
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.03	0.03	< 0.005	< 0.005	< 0.005	0.03
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.08	0.08	< 0.005	< 0.005	< 0.005	0.09
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02

3.4. Move-On (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	1.02	1.02	22.8	41.2	0.07	0.72	—	0.72	0.65	—	0.65	—	7,022	7,022	0.28	0.06	—	7,046
Dust From Material Movement	—	—	—	—	—	—	2.85	2.85	—	1.09	1.09	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.20	0.14	< 0.005	< 0.005	1.11	1.11	< 0.005	0.11	0.11	—	31.6	31.6	< 0.005	0.01	< 0.005	33.2

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.63	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	192	192	0.01	< 0.005	—	193
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.86	0.86	< 0.005	< 0.005	< 0.005	0.90
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.11	0.21	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	31.9	31.9	< 0.005	< 0.005	—	32.0
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.02	0.25	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.93	6.93	< 0.005	< 0.005	< 0.005	7.60
Vendor	0.01	< 0.005	0.12	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.6	18.6	< 0.005	< 0.005	< 0.005	19.5
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.27	5.27	< 0.005	< 0.005	< 0.005	5.53
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	—	0.19	0.19	< 0.005	< 0.005	< 0.005	0.21

Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.51	0.51	< 0.005	< 0.005	< 0.005	0.53
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.03	0.03	< 0.005	< 0.005	< 0.005	0.03
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.08	0.08	< 0.005	< 0.005	< 0.005	0.09
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02

3.5. Cleanup/Testing/Restoration (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	0.58	0.58	15.1	17.9	0.03	0.60	—	0.60	0.54	—	0.54	—	3,411	3,411	0.14	0.03	—	3,423
Dust From Material Movement	—	—	—	—	—	—	0.78	0.78	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	0.01	< 0.005	0.09	0.07	< 0.005	< 0.005	0.56	0.56	< 0.005	0.06	0.06	—	14.9	14.9	< 0.005	< 0.005	0.01	15.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.58	0.58	15.1	17.9	0.03	0.60	—	0.60	0.54	—	0.54	—	3,411	3,411	0.14	0.03	—	3,423

Dust From Material Movement	—	—	—	—	—	—	0.78	0.78	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	0.01	< 0.005	0.10	0.07	< 0.005	< 0.005	0.56	0.56	< 0.005	0.06	0.06	—	15.2	15.2	< 0.005	< 0.005	< 0.005	15.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.14	3.63	4.33	0.01	0.15	—	0.15	0.13	—	0.13	—	822	822	0.03	0.01	—	825
Dust From Material Movement	—	—	—	—	—	—	0.19	0.19	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.13	0.13	< 0.005	0.01	0.01	—	3.62	3.62	< 0.005	< 0.005	< 0.005	3.80
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.66	0.79	< 0.005	0.03	—	0.03	0.02	—	0.02	—	136	136	0.01	< 0.005	—	137
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.60	0.60	< 0.005	< 0.005	< 0.005	0.63
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.16	0.03	0.38	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	17.3	17.3	0.01	< 0.005	0.03	18.6
Vendor	< 0.005	< 0.005	0.06	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.6	10.6	< 0.005	< 0.005	0.01	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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.14	0.04	0.53	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	16.6	16.6	0.01	< 0.005	< 0.005	18.2
Vendor	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.7	10.7	< 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	0.04	0.03	0.01	0.11	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.03	4.03	< 0.005	< 0.005	< 0.005	4.34
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.57	2.57	< 0.005	< 0.005	< 0.005	2.70
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.67	0.67	< 0.005	< 0.005	< 0.005	0.72
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.43	0.43	< 0.005	< 0.005	< 0.005	0.45
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

3.6. Cleanup/Testing/Restoration (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	0.58	0.58	15.1	17.9	0.03	0.60	—	0.60	0.54	—	0.54	—	3,411	3,411	0.14	0.03	—	3,423
Dust From Material Movement	—	—	—	—	—	—	0.78	0.78	—	0.08	0.08	—	—	—	—	—	—	—

Onsite truck	0.01	< 0.005	0.09	0.07	< 0.005	< 0.005	0.56	0.56	< 0.005	0.06	0.06	—	14.9	14.9	< 0.005	< 0.005	0.01	15.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.58	0.58	15.1	17.9	0.03	0.60	—	0.60	0.54	—	0.54	—	3,411	3,411	0.14	0.03	—	3,423
Dust From Material Movement	—	—	—	—	—	—	0.78	0.78	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	0.01	< 0.005	0.10	0.07	< 0.005	< 0.005	0.56	0.56	< 0.005	0.06	0.06	—	15.2	15.2	< 0.005	< 0.005	< 0.005	15.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.14	3.63	4.33	0.01	0.15	—	0.15	0.13	—	0.13	—	822	822	0.03	0.01	—	825
Dust From Material Movement	—	—	—	—	—	—	0.19	0.19	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.13	0.13	< 0.005	0.01	0.01	—	3.62	3.62	< 0.005	< 0.005	< 0.005	3.80
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.66	0.79	< 0.005	0.03	—	0.03	0.02	—	0.02	—	136	136	0.01	< 0.005	—	137
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.60	0.60	< 0.005	< 0.005	< 0.005	0.63

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.16	0.03	0.38	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	17.3	17.3	0.01	< 0.005	0.03	18.6
Vendor	< 0.005	< 0.005	0.06	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.6	10.6	< 0.005	< 0.005	0.01	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.14	0.04	0.53	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	16.6	16.6	0.01	< 0.005	< 0.005	18.2
Vendor	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.7	10.7	< 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	0.04	0.03	0.01	0.11	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.03	4.03	< 0.005	< 0.005	< 0.005	4.34
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.57	2.57	< 0.005	< 0.005	< 0.005	2.70
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.67	0.67	< 0.005	< 0.005	< 0.005	0.72
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.43	0.43	< 0.005	< 0.005	< 0.005	0.45
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

3.7. Site Preparation and 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	1.20	1.20	21.7	59.1	0.10	0.56	—	0.56	0.52	—	0.52	—	9,817	9,817	0.40	0.08	—	9,851
Dust From Material Movement	—	—	—	—	—	—	2.30	2.30	—	0.64	0.64	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.17	0.12	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	26.3	26.3	< 0.005	< 0.005	< 0.005	27.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.72	1.96	< 0.005	0.02	—	0.02	0.02	—	0.02	—	327	327	0.01	< 0.005	—	328
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.87	0.87	< 0.005	< 0.005	< 0.005	0.91
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.13	0.36	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	54.1	54.1	< 0.005	< 0.005	—	54.3
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.50	0.48	0.13	1.84	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	52.0	52.0	0.03	0.01	< 0.005	57.0
Vendor	0.01	< 0.005	0.12	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.6	18.6	< 0.005	< 0.005	< 0.005	19.5
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	0.02	0.02	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.74	1.74	< 0.005	< 0.005	< 0.005	1.91
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.61	0.61	< 0.005	< 0.005	< 0.005	0.64
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	—	0.29	0.29	< 0.005	< 0.005	< 0.005	0.32
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.10	0.10	< 0.005	< 0.005	< 0.005	0.11
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Site Preparation and 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	1.20	1.20	21.7	59.1	0.10	0.56	—	0.56	0.52	—	0.52	—	9,817	9,817	0.40	0.08	—	9,851
Dust From Material Movement	—	—	—	—	—	—	2.30	2.30	—	0.64	0.64	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.17	0.12	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	26.3	26.3	< 0.005	< 0.005	< 0.005	27.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.72	1.96	< 0.005	0.02	—	0.02	0.02	—	0.02	—	327	327	0.01	< 0.005	—	328
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.87	0.87	< 0.005	< 0.005	< 0.005	0.91
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.13	0.36	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	54.1	54.1	< 0.005	< 0.005	—	54.3
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.50	0.48	0.13	1.84	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	52.0	52.0	0.03	0.01	< 0.005	57.0
Vendor	0.01	< 0.005	0.12	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.6	18.6	< 0.005	< 0.005	< 0.005	19.5
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	0.02	0.02	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.74	1.74	< 0.005	< 0.005	< 0.005	1.91
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.61	0.61	< 0.005	< 0.005	< 0.005	0.64
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	—	0.29	0.29	< 0.005	< 0.005	< 0.005	0.32
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.10	0.10	< 0.005	< 0.005	< 0.005	0.11
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Site Preparation and 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	1.20	1.20	21.7	59.1	0.10	0.56	—	0.56	0.52	—	0.52	—	9,818	9,818	0.40	0.08	—	9,851
Dust From Material Movement	—	—	—	—	—	—	2.30	2.30	—	0.64	0.64	—	—	—	—	—	—	—

Onsite truck	0.01	0.01	0.16	0.11	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	25.4	25.4	< 0.005	< 0.005	0.02	26.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.20	1.20	21.7	59.1	0.10	0.56	—	0.56	0.52	—	0.52	—	9,818	9,818	0.40	0.08	—	9,851
Dust From Material Movement	—	—	—	—	—	—	2.30	2.30	—	0.64	0.64	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.17	0.12	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	25.8	25.8	< 0.005	< 0.005	< 0.005	27.1
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	0.25	4.46	12.1	0.02	0.12	—	0.12	0.11	—	0.11	—	2,017	2,017	0.08	0.02	—	2,024
Dust From Material Movement	—	—	—	—	—	—	0.47	0.47	—	0.13	0.13	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.18	0.18	< 0.005	0.02	0.02	—	5.25	5.25	< 0.005	< 0.005	< 0.005	5.52
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	0.81	2.21	< 0.005	0.02	—	0.02	0.02	—	0.02	—	334	334	0.01	< 0.005	—	335
Dust From Material Movement	—	—	—	—	—	—	0.09	0.09	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.87	0.87	< 0.005	< 0.005	< 0.005	0.91

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.53	0.51	0.10	1.23	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	53.0	53.0	0.02	0.01	0.09	56.9
Vendor	0.01	0.01	0.11	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.0	18.0	< 0.005	< 0.005	0.02	18.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.46	0.45	0.12	1.71	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	50.8	50.8	0.03	0.01	< 0.005	55.8
Vendor	0.01	< 0.005	0.11	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.3	18.3	< 0.005	< 0.005	< 0.005	19.1
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	0.10	0.09	0.02	0.29	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.5	10.5	0.01	< 0.005	0.01	11.5
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.72	3.72	< 0.005	< 0.005	< 0.005	3.90
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	0.02	0.02	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.74	1.74	< 0.005	< 0.005	< 0.005	1.91
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.62	0.62	< 0.005	< 0.005	< 0.005	0.65
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Site Preparation and 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	1.20	1.20	21.7	59.1	0.10	0.56	—	0.56	0.52	—	0.52	—	9,818	9,818	0.40	0.08	—	9,851
Dust From Material Movement	—	—	—	—	—	—	2.30	2.30	—	0.64	0.64	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.16	0.11	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	25.4	25.4	< 0.005	< 0.005	0.02	26.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.20	1.20	21.7	59.1	0.10	0.56	—	0.56	0.52	—	0.52	—	9,818	9,818	0.40	0.08	—	9,851
Dust From Material Movement	—	—	—	—	—	—	2.30	2.30	—	0.64	0.64	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.17	0.12	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	25.8	25.8	< 0.005	< 0.005	< 0.005	27.1
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	0.25	4.46	12.1	0.02	0.12	—	0.12	0.11	—	0.11	—	2,017	2,017	0.08	0.02	—	2,024
Dust From Material Movement	—	—	—	—	—	—	0.47	0.47	—	0.13	0.13	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.18	0.18	< 0.005	0.02	0.02	—	5.25	5.25	< 0.005	< 0.005	< 0.005	5.52
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	0.81	2.21	< 0.005	0.02	—	0.02	0.02	—	0.02	—	334	334	0.01	< 0.005	—	335

Dust From Material Movement	—	—	—	—	—	—	0.09	0.09	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.87	0.87	< 0.005	< 0.005	< 0.005	0.91
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.53	0.51	0.10	1.23	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	53.0	53.0	0.02	0.01	0.09	56.9
Vendor	0.01	0.01	0.11	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.0	18.0	< 0.005	< 0.005	0.02	18.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.46	0.45	0.12	1.71	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	50.8	50.8	0.03	0.01	< 0.005	55.8
Vendor	0.01	< 0.005	0.11	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.3	18.3	< 0.005	< 0.005	< 0.005	19.1
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	0.10	0.09	0.02	0.29	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.5	10.5	0.01	< 0.005	0.01	11.5
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.72	3.72	< 0.005	< 0.005	< 0.005	3.90
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	0.02	0.02	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.74	1.74	< 0.005	< 0.005	< 0.005	1.91
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.62	0.62	< 0.005	< 0.005	< 0.005	0.65
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Substation 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,902	3,902	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	0.01	10.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,902	3,902	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.3	10.3	< 0.005	< 0.005	< 0.005	10.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21	0.21	3.44	10.3	0.02	0.10	—	0.10	0.09	—	0.09	—	1,749	1,749	0.07	0.01	—	1,755
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.16	0.16	< 0.005	0.02	0.02	—	4.58	4.58	< 0.005	< 0.005	< 0.005	4.81
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.63	1.88	< 0.005	0.02	—	0.02	0.02	—	0.02	—	290	290	0.01	< 0.005	—	291
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.76	0.76	< 0.005	< 0.005	< 0.005	0.80
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.01	0.16	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	7.07	7.07	< 0.005	< 0.005	0.01	7.58
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.60	3.60	< 0.005	< 0.005	< 0.005	3.78
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.07	5.07	< 0.005	< 0.005	< 0.005	5.32
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.02	0.23	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.77	6.77	< 0.005	< 0.005	< 0.005	7.44
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.65	3.65	< 0.005	< 0.005	< 0.005	3.83
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	5.42
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.01	0.08	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.06	3.06	< 0.005	< 0.005	< 0.005	3.35
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.62	1.62	< 0.005	< 0.005	< 0.005	1.70
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.29	2.29	< 0.005	< 0.005	< 0.005	2.41
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.51	0.51	< 0.005	< 0.005	< 0.005	0.55
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.27	0.27	< 0.005	< 0.005	< 0.005	0.28
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.38	0.38	< 0.005	< 0.005	< 0.005	0.40

3.12. Substation 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,902	3,902	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	0.01	10.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,902	3,902	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.3	10.3	< 0.005	< 0.005	< 0.005	10.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21	0.21	3.44	10.3	0.02	0.10	—	0.10	0.09	—	0.09	—	1,749	1,749	0.07	0.01	—	1,755
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.16	0.16	< 0.005	0.02	0.02	—	4.58	4.58	< 0.005	< 0.005	< 0.005	4.81
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.63	1.88	< 0.005	0.02	—	0.02	0.02	—	0.02	—	290	290	0.01	< 0.005	—	291
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.76	0.76	< 0.005	< 0.005	< 0.005	0.80
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.01	0.16	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	7.07	7.07	< 0.005	< 0.005	0.01	7.58
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.60	3.60	< 0.005	< 0.005	< 0.005	3.78
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.07	5.07	< 0.005	< 0.005	< 0.005	5.32

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.02	0.23	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.77	6.77	< 0.005	< 0.005	< 0.005	7.44
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.65	3.65	< 0.005	< 0.005	< 0.005	3.83
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	5.42
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.01	0.08	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.06	3.06	< 0.005	< 0.005	< 0.005	3.35
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.62	1.62	< 0.005	< 0.005	< 0.005	1.70
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.29	2.29	< 0.005	< 0.005	< 0.005	2.41
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.51	0.51	< 0.005	< 0.005	< 0.005	0.55
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.27	0.27	< 0.005	< 0.005	< 0.005	0.28
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.38	0.38	< 0.005	< 0.005	< 0.005	0.40

3.13. Substation 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	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,903	3,903	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	9.93	9.93	< 0.005	< 0.005	0.01	10.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,903	3,903	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.12	0.12	2.00	5.99	0.01	0.06	—	0.06	0.05	—	0.05	—	1,016	1,016	0.04	0.01	—	1,019
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.09	0.09	< 0.005	0.01	0.01	—	2.60	2.60	< 0.005	< 0.005	< 0.005	2.73
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.02	0.02	0.36	1.09	< 0.005	0.01	—	0.01	0.01	—	0.01	—	168	168	0.01	< 0.005	—	169
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.43	0.43	< 0.005	< 0.005	< 0.005	0.45
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.01	0.15	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.92	6.92	< 0.005	< 0.005	0.01	7.44
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.53	3.53	< 0.005	< 0.005	< 0.005	3.71
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.97	4.97	< 0.005	< 0.005	< 0.005	5.21
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.02	0.21	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.63	6.63	< 0.005	< 0.005	< 0.005	7.29
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.58	3.58	< 0.005	< 0.005	< 0.005	3.76
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.05	5.05	< 0.005	< 0.005	< 0.005	5.31
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.02	0.02	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.74	1.74	< 0.005	< 0.005	< 0.005	1.87
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.92	0.92	< 0.005	< 0.005	< 0.005	0.97
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.30	1.30	< 0.005	< 0.005	< 0.005	1.37
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.29	0.29	< 0.005	< 0.005	< 0.005	0.31
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.15	0.15	< 0.005	< 0.005	< 0.005	0.16
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.22	0.22	< 0.005	< 0.005	< 0.005	0.23

3.14. Substation 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	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,903	3,903	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	9.93	9.93	< 0.005	< 0.005	0.01	10.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,903	3,903	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.12	0.12	2.00	5.99	0.01	0.06	—	0.06	0.05	—	0.05	—	1,016	1,016	0.04	0.01	—	1,019
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.09	0.09	< 0.005	0.01	0.01	—	2.60	2.60	< 0.005	< 0.005	< 0.005	2.73
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.36	1.09	< 0.005	0.01	—	0.01	0.01	—	0.01	—	168	168	0.01	< 0.005	—	169
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.43	0.43	< 0.005	< 0.005	< 0.005	0.45
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.01	0.15	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.92	6.92	< 0.005	< 0.005	0.01	7.44
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.53	3.53	< 0.005	< 0.005	< 0.005	3.71
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.97	4.97	< 0.005	< 0.005	< 0.005	5.21
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.02	0.21	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.63	6.63	< 0.005	< 0.005	< 0.005	7.29
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.58	3.58	< 0.005	< 0.005	< 0.005	3.76
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.05	5.05	< 0.005	< 0.005	< 0.005	5.31
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.74	1.74	< 0.005	< 0.005	< 0.005	1.87
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.92	0.92	< 0.005	< 0.005	< 0.005	0.97
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.30	1.30	< 0.005	< 0.005	< 0.005	1.37
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.29	0.29	< 0.005	< 0.005	< 0.005	0.31
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.15	0.15	< 0.005	< 0.005	< 0.005	0.16

Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.22	0.22	< 0.005	< 0.005	< 0.005	0.23

3.15. System Installation - Solar Facility (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,192	7,192	0.29	0.06	—	7,216
Onsite truck	0.02	0.01	0.22	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	35.5	35.5	< 0.005	0.01	0.03	37.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,192	7,192	0.29	0.06	—	7,216
Onsite truck	0.01	0.01	0.24	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	36.1	36.1	< 0.005	0.01	< 0.005	37.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.18	3.24	10.5	0.01	0.03	—	0.03	0.03	—	0.03	—	1,492	1,492	0.06	0.01	—	1,497
Onsite truck	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	0.25	0.25	< 0.005	0.03	0.03	—	7.42	7.42	< 0.005	< 0.005	< 0.005	7.80
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.03	0.03	0.59	1.92	< 0.005	0.01	—	0.01	0.01	—	0.01	—	247	247	0.01	< 0.005	—	248
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	—	1.23	1.23	< 0.005	< 0.005	< 0.005	1.29
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.81	2.74	0.56	6.54	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	283	283	0.12	0.06	0.48	303
Vendor	0.01	0.01	0.11	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.0	18.0	< 0.005	< 0.005	0.02	18.9
Hauling	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	0.01	10.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.48	2.40	0.66	9.11	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	271	271	0.18	0.07	0.01	298
Vendor	0.01	< 0.005	0.11	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.3	18.3	< 0.005	< 0.005	< 0.005	19.1
Hauling	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.3	10.3	< 0.005	< 0.005	< 0.005	10.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.52	0.51	0.12	1.57	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	56.6	56.6	0.03	0.02	0.04	62.0
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.76	3.76	< 0.005	< 0.005	< 0.005	3.94
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.12	2.12	< 0.005	< 0.005	< 0.005	2.23
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.02	0.29	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.37	9.37	< 0.005	< 0.005	0.01	10.3
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.62	0.62	< 0.005	< 0.005	< 0.005	0.65
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.35	0.35	< 0.005	< 0.005	< 0.005	0.37

3.16. System Installation - Solar Facility (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	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,192	7,192	0.29	0.06	—	7,216
Onsite truck	0.02	0.01	0.22	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	35.5	35.5	< 0.005	0.01	0.03	37.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,192	7,192	0.29	0.06	—	7,216
Onsite truck	0.01	0.01	0.24	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	36.1	36.1	< 0.005	0.01	< 0.005	37.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.18	3.24	10.5	0.01	0.03	—	0.03	0.03	—	0.03	—	1,492	1,492	0.06	0.01	—	1,497
Onsite truck	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	0.25	0.25	< 0.005	0.03	0.03	—	7.42	7.42	< 0.005	< 0.005	< 0.005	7.80
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.59	1.92	< 0.005	0.01	—	0.01	0.01	—	0.01	—	247	247	0.01	< 0.005	—	248
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	—	1.23	1.23	< 0.005	< 0.005	< 0.005	1.29
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.81	2.74	0.56	6.54	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	283	283	0.12	0.06	0.48	303
Vendor	0.01	0.01	0.11	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.0	18.0	< 0.005	< 0.005	0.02	18.9
Hauling	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	0.01	10.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.48	2.40	0.66	9.11	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	271	271	0.18	0.07	0.01	298
Vendor	0.01	< 0.005	0.11	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.3	18.3	< 0.005	< 0.005	< 0.005	19.1
Hauling	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.3	10.3	< 0.005	< 0.005	< 0.005	10.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.52	0.51	0.12	1.57	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	56.6	56.6	0.03	0.02	0.04	62.0
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.76	3.76	< 0.005	< 0.005	< 0.005	3.94
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.12	2.12	< 0.005	< 0.005	< 0.005	2.23
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.02	0.29	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.37	9.37	< 0.005	< 0.005	0.01	10.3
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.62	0.62	< 0.005	< 0.005	< 0.005	0.65
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.35	0.35	< 0.005	< 0.005	< 0.005	0.37

3.17. System Installation - Solar Facility (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 Equipm	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,188	7,188	0.29	0.06	—	7,212
Onsite truck	0.02	0.01	0.22	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	34.8	34.8	< 0.005	0.01	0.02	36.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,188	7,188	0.29	0.06	—	7,212
Onsite truck	0.01	0.01	0.23	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	35.4	35.4	< 0.005	0.01	< 0.005	37.2
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	0.24	4.28	13.9	0.02	0.04	—	0.04	0.04	—	0.04	—	1,969	1,969	0.08	0.02	—	1,976
Onsite truck	< 0.005	< 0.005	0.06	0.04	< 0.005	< 0.005	0.34	0.34	< 0.005	0.03	0.03	—	9.60	9.60	< 0.005	< 0.005	< 0.005	10.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.78	2.53	< 0.005	0.01	—	0.01	0.01	—	0.01	—	326	326	0.01	< 0.005	—	327
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.06	0.06	< 0.005	0.01	0.01	—	1.59	1.59	< 0.005	< 0.005	< 0.005	1.67
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.67	2.61	0.52	6.11	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	277	277	0.12	0.06	0.44	298
Vendor	0.01	< 0.005	0.11	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	17.7	17.7	< 0.005	< 0.005	0.01	18.5
Hauling	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.93	9.93	< 0.005	< 0.005	0.01	10.4

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.35	2.28	0.62	8.50	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	265	265	0.16	0.07	0.01	291
Vendor	0.01	< 0.005	0.11	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	17.9	17.9	< 0.005	< 0.005	< 0.005	18.8
Hauling	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.65	0.63	0.15	1.93	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	73.2	73.2	0.04	0.02	0.05	78.9
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.87	4.87	< 0.005	< 0.005	< 0.005	5.11
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.74	2.74	< 0.005	< 0.005	< 0.005	2.88
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.12	0.03	0.35	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12.1	12.1	0.01	< 0.005	0.01	13.1
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.81	0.81	< 0.005	< 0.005	< 0.005	0.85
Hauling	< 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	0.48

3.18. System Installation - Solar Facility (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	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,188	7,188	0.29	0.06	—	7,212
Onsite truck	0.02	0.01	0.22	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	34.8	34.8	< 0.005	0.01	0.02	36.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,188	7,188	0.29	0.06	—	7,212
Onsite truck	0.01	0.01	0.23	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	35.4	35.4	< 0.005	0.01	< 0.005	37.2
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.24	0.24	4.28	13.9	0.02	0.04	—	0.04	0.04	—	0.04	—	1,969	1,969	0.08	0.02	—	1,976
Onsite truck	< 0.005	< 0.005	0.06	0.04	< 0.005	< 0.005	0.34	0.34	< 0.005	0.03	0.03	—	9.60	9.60	< 0.005	< 0.005	< 0.005	10.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.04	0.04	0.78	2.53	< 0.005	0.01	—	0.01	0.01	—	0.01	—	326	326	0.01	< 0.005	—	327
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.06	0.06	< 0.005	0.01	0.01	—	1.59	1.59	< 0.005	< 0.005	< 0.005	1.67
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.67	2.61	0.52	6.11	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	277	277	0.12	0.06	0.44	298
Vendor	0.01	< 0.005	0.11	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	17.7	17.7	< 0.005	< 0.005	0.01	18.5
Hauling	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.93	9.93	< 0.005	< 0.005	0.01	10.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.35	2.28	0.62	8.50	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	265	265	0.16	0.07	0.01	291
Vendor	0.01	< 0.005	0.11	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	17.9	17.9	< 0.005	< 0.005	< 0.005	18.8
Hauling	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.65	0.63	0.15	1.93	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	73.2	73.2	0.04	0.02	0.05	78.9
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.87	4.87	< 0.005	< 0.005	< 0.005	5.11
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.74	2.74	< 0.005	< 0.005	< 0.005	2.88
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.12	0.03	0.35	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12.1	12.1	0.01	< 0.005	0.01	13.1
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.81	0.81	< 0.005	< 0.005	< 0.005	0.85
Hauling	< 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	0.48

3.19. Gen-tie Line Installation (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,343	1,343	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	0.01	10.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,343	1,343	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.3	10.3	< 0.005	< 0.005	< 0.005	10.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.06	0.06	0.46	3.63	0.01	0.01	—	0.01	0.01	—	0.01	—	581	581	0.02	< 0.005	—	583
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.15	0.15	< 0.005	0.02	0.02	—	4.42	4.42	< 0.005	< 0.005	< 0.005	4.64
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.66	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	96.1	96.1	< 0.005	< 0.005	—	96.5
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.73	0.73	< 0.005	< 0.005	< 0.005	0.77
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.01	0.16	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	7.07	7.07	< 0.005	< 0.005	0.01	7.58
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.60	3.60	< 0.005	< 0.005	< 0.005	3.78
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.07	5.07	< 0.005	< 0.005	< 0.005	5.32
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.02	0.23	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.77	6.77	< 0.005	< 0.005	< 0.005	7.44
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.65	3.65	< 0.005	< 0.005	< 0.005	3.83
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	5.42
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.01	0.08	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.95	2.95	< 0.005	< 0.005	< 0.005	3.23
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.57	1.57	< 0.005	< 0.005	< 0.005	1.64
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.21	2.21	< 0.005	< 0.005	< 0.005	2.32
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.49	0.49	< 0.005	< 0.005	< 0.005	0.53
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.26	0.26	< 0.005	< 0.005	< 0.005	0.27

Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.37	0.37	< 0.005	< 0.005	< 0.005	0.38

3.20. Gen-tie Line Installation (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	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,343	1,343	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	0.01	10.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,343	1,343	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.3	10.3	< 0.005	< 0.005	< 0.005	10.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.46	3.63	0.01	0.01	—	0.01	0.01	—	0.01	—	581	581	0.02	< 0.005	—	583
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.15	0.15	< 0.005	0.02	0.02	—	4.42	4.42	< 0.005	< 0.005	< 0.005	4.64
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.01	0.01	0.08	0.66	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	96.1	96.1	< 0.005	< 0.005	—	96.5
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.73	0.73	< 0.005	< 0.005	< 0.005	0.77
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.01	0.16	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	7.07	7.07	< 0.005	< 0.005	0.01	7.58
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.60	3.60	< 0.005	< 0.005	< 0.005	3.78
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.07	5.07	< 0.005	< 0.005	< 0.005	5.32
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.02	0.23	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.77	6.77	< 0.005	< 0.005	< 0.005	7.44
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.65	3.65	< 0.005	< 0.005	< 0.005	3.83
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	5.42
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.01	0.08	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.95	2.95	< 0.005	< 0.005	< 0.005	3.23
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.57	1.57	< 0.005	< 0.005	< 0.005	1.64
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.21	2.21	< 0.005	< 0.005	< 0.005	2.32
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.49	0.49	< 0.005	< 0.005	< 0.005	0.53
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.26	0.26	< 0.005	< 0.005	< 0.005	0.27
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.37	0.37	< 0.005	< 0.005	< 0.005	0.38

3.21. Gen-tie Line Installation (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	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,342	1,342	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	9.93	9.93	< 0.005	< 0.005	0.01	10.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,342	1,342	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.30	2.35	< 0.005	0.01	—	0.01	0.01	—	0.01	—	376	376	0.02	< 0.005	—	377
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.10	0.10	< 0.005	0.01	0.01	—	2.80	2.80	< 0.005	< 0.005	< 0.005	2.94
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.43	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	62.2	62.2	< 0.005	< 0.005	—	62.4
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.46	0.46	< 0.005	< 0.005	< 0.005	0.49
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.01	0.15	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.92	6.92	< 0.005	< 0.005	0.01	7.44
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.53	3.53	< 0.005	< 0.005	< 0.005	3.71
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.97	4.97	< 0.005	< 0.005	< 0.005	5.21
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.02	0.21	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.63	6.63	< 0.005	< 0.005	< 0.005	7.29
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.58	3.58	< 0.005	< 0.005	< 0.005	3.76
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.05	5.05	< 0.005	< 0.005	< 0.005	5.31
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.87	1.87	< 0.005	< 0.005	< 0.005	2.01
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.99	0.99	< 0.005	< 0.005	< 0.005	1.04
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.40	1.40	< 0.005	< 0.005	< 0.005	1.47
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.31	0.31	< 0.005	< 0.005	< 0.005	0.33
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.16	0.16	< 0.005	< 0.005	< 0.005	0.17
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.23	0.23	< 0.005	< 0.005	< 0.005	0.24

3.22. Gen-tie Line Installation (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 Equipm	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,342	1,342	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	9.93	9.93	< 0.005	< 0.005	0.01	10.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,342	1,342	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.30	2.35	< 0.005	0.01	—	0.01	0.01	—	0.01	—	376	376	0.02	< 0.005	—	377
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.10	0.10	< 0.005	0.01	0.01	—	2.80	2.80	< 0.005	< 0.005	< 0.005	2.94
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.43	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	62.2	62.2	< 0.005	< 0.005	—	62.4
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.46	0.46	< 0.005	< 0.005	< 0.005	0.49
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.01	0.15	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.92	6.92	< 0.005	< 0.005	0.01	7.44
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.53	3.53	< 0.005	< 0.005	< 0.005	3.71
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.97	4.97	< 0.005	< 0.005	< 0.005	5.21

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.02	0.21	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.63	6.63	< 0.005	< 0.005	< 0.005	7.29
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.58	3.58	< 0.005	< 0.005	< 0.005	3.76
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.05	5.05	< 0.005	< 0.005	< 0.005	5.31
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.87	1.87	< 0.005	< 0.005	< 0.005	2.01
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.99	0.99	< 0.005	< 0.005	< 0.005	1.04
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.40	1.40	< 0.005	< 0.005	< 0.005	1.47
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.31	0.31	< 0.005	< 0.005	< 0.005	0.33
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.16	0.16	< 0.005	< 0.005	< 0.005	0.17
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.23	0.23	< 0.005	< 0.005	< 0.005	0.24

3.23. Battery/Container Installation (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.51	0.51	8.86	27.3	0.04	0.19	—	0.19	0.17	—	0.17	—	4,184	4,184	0.17	0.03	—	4,199
Onsite truck	0.02	0.01	0.29	0.20	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	45.7	45.7	< 0.005	0.01	0.03	47.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.51	0.51	8.86	27.3	0.04	0.19	—	0.19	0.17	—	0.17	—	4,184	4,184	0.17	0.03	—	4,199
Onsite truck	0.02	0.01	0.30	0.21	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	46.5	46.5	< 0.005	0.01	< 0.005	48.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.19	0.19	3.30	10.2	0.01	0.07	—	0.07	0.06	—	0.06	—	1,556	1,556	0.06	0.01	—	1,561
Onsite truck	0.01	0.01	0.11	0.08	< 0.005	< 0.005	0.58	0.59	< 0.005	0.06	0.06	—	17.1	17.1	< 0.005	< 0.005	0.01	18.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.03	0.03	0.60	1.85	< 0.005	0.01	—	0.01	0.01	—	0.01	—	258	258	0.01	< 0.005	—	258
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.11	0.11	< 0.005	0.01	0.01	—	2.83	2.83	< 0.005	< 0.005	< 0.005	2.97
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.18	0.17	0.03	0.41	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	17.7	17.7	0.01	< 0.005	0.03	19.0
Vendor	0.01	0.01	0.15	0.10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	25.2	25.2	< 0.005	< 0.005	0.02	26.5
Hauling	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	0.01	10.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.15	0.04	0.57	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	16.9	16.9	0.01	< 0.005	< 0.005	18.6
Vendor	0.01	0.01	0.16	0.11	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	25.6	25.6	< 0.005	< 0.005	< 0.005	26.8
Hauling	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.3	10.3	< 0.005	< 0.005	< 0.005	10.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.06	0.06	0.01	0.18	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.34	6.34	< 0.005	< 0.005	< 0.005	6.95
Vendor	< 0.005	< 0.005	0.06	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.43	9.43	< 0.005	< 0.005	< 0.005	9.89
Hauling	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.80	3.80	< 0.005	< 0.005	< 0.005	3.99
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.05	1.05	< 0.005	< 0.005	< 0.005	1.15
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.56	1.56	< 0.005	< 0.005	< 0.005	1.64
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.63	0.63	< 0.005	< 0.005	< 0.005	0.66

3.24. Battery/Container Installation (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	0.51	0.51	8.86	27.3	0.04	0.19	—	0.19	0.17	—	0.17	—	4,184	4,184	0.17	0.03	—	4,199
Onsite truck	0.02	0.01	0.29	0.20	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	45.7	45.7	< 0.005	0.01	0.03	47.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.51	0.51	8.86	27.3	0.04	0.19	—	0.19	0.17	—	0.17	—	4,184	4,184	0.17	0.03	—	4,199
Onsite truck	0.02	0.01	0.30	0.21	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	46.5	46.5	< 0.005	0.01	< 0.005	48.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.19	0.19	3.30	10.2	0.01	0.07	—	0.07	0.06	—	0.06	—	1,556	1,556	0.06	0.01	—	1,561
Onsite truck	0.01	0.01	0.11	0.08	< 0.005	< 0.005	0.58	0.59	< 0.005	0.06	0.06	—	17.1	17.1	< 0.005	< 0.005	0.01	18.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.60	1.85	< 0.005	0.01	—	0.01	0.01	—	0.01	—	258	258	0.01	< 0.005	—	258
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.11	0.11	< 0.005	0.01	0.01	—	2.83	2.83	< 0.005	< 0.005	< 0.005	2.97
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.18	0.17	0.03	0.41	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	17.7	17.7	0.01	< 0.005	0.03	19.0
Vendor	0.01	0.01	0.15	0.10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	25.2	25.2	< 0.005	< 0.005	0.02	26.5
Hauling	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	0.01	10.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.15	0.04	0.57	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	16.9	16.9	0.01	< 0.005	< 0.005	18.6
Vendor	0.01	0.01	0.16	0.11	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	25.6	25.6	< 0.005	< 0.005	< 0.005	26.8
Hauling	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.3	10.3	< 0.005	< 0.005	< 0.005	10.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.01	0.18	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.34	6.34	< 0.005	< 0.005	< 0.005	6.95
Vendor	< 0.005	< 0.005	0.06	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.43	9.43	< 0.005	< 0.005	< 0.005	9.89
Hauling	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.80	3.80	< 0.005	< 0.005	< 0.005	3.99
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.05	1.05	< 0.005	< 0.005	< 0.005	1.15
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.56	1.56	< 0.005	< 0.005	< 0.005	1.64

Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.63	0.63	< 0.005	< 0.005	< 0.005	0.66

3.25. Battery/Container Installation (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.51	0.51	8.86	27.3	0.04	0.19	—	0.19	0.17	—	0.17	—	4,185	4,185	0.17	0.03	—	4,199
Onsite truck	0.02	0.01	0.30	0.21	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	45.5	45.5	< 0.005	0.01	< 0.005	47.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.99	3.05	< 0.005	0.02	—	0.02	0.02	—	0.02	—	467	467	0.02	< 0.005	—	468
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.18	0.18	< 0.005	0.02	0.02	—	5.02	5.02	< 0.005	< 0.005	< 0.005	5.27
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.18	0.56	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	77.3	77.3	< 0.005	< 0.005	—	77.6
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.83	0.83	< 0.005	< 0.005	< 0.005	0.87
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.14	0.04	0.53	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	16.6	16.6	0.01	< 0.005	< 0.005	18.2
Vendor	0.01	0.01	0.16	0.11	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	25.1	25.1	< 0.005	< 0.005	< 0.005	26.3
Hauling	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.86	1.86	< 0.005	< 0.005	< 0.005	2.01
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.77	2.77	< 0.005	< 0.005	< 0.005	2.91
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.12	1.12	< 0.005	< 0.005	< 0.005	1.17
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.31	0.31	< 0.005	< 0.005	< 0.005	0.33
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.46	0.46	< 0.005	< 0.005	< 0.005	0.48
Hauling	< 0.005	< 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

3.26. Battery/Container Installation (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.51	0.51	8.86	27.3	0.04	0.19	—	0.19	0.17	—	0.17	—	4,185	4,185	0.17	0.03	—	4,199
Onsite truck	0.02	0.01	0.30	0.21	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	45.5	45.5	< 0.005	0.01	< 0.005	47.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.99	3.05	< 0.005	0.02	—	0.02	0.02	—	0.02	—	467	467	0.02	< 0.005	—	468
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.18	0.18	< 0.005	0.02	0.02	—	5.02	5.02	< 0.005	< 0.005	< 0.005	5.27
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.18	0.56	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	77.3	77.3	< 0.005	< 0.005	—	77.6
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.83	0.83	< 0.005	< 0.005	< 0.005	0.87
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.14	0.04	0.53	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	16.6	16.6	0.01	< 0.005	< 0.005	18.2
Vendor	0.01	0.01	0.16	0.11	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	25.1	25.1	< 0.005	< 0.005	< 0.005	26.3
Hauling	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.86	1.86	< 0.005	< 0.005	< 0.005	2.01
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.77	2.77	< 0.005	< 0.005	< 0.005	2.91

Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.12	1.12	< 0.005	< 0.005	< 0.005	1.17
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.31	0.31	< 0.005	< 0.005	< 0.005	0.33
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.46	0.46	< 0.005	< 0.005	< 0.005	0.48
Hauling	< 0.005	< 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

3.27. PG&E Tranquility Switching Station Upgrades (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	1.93	1.62	14.1	17.8	0.04	0.55	—	0.55	0.50	—	0.50	—	3,781	3,781	0.15	0.03	—	3,794
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	9.93	9.93	< 0.005	< 0.005	0.01	10.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.93	1.62	14.1	17.8	0.04	0.55	—	0.55	0.50	—	0.50	—	3,781	3,781	0.15	0.03	—	3,794
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.39	3.41	4.30	0.01	0.13	—	0.13	0.12	—	0.12	—	912	912	0.04	0.01	—	915

Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.08	0.08	< 0.005	0.01	0.01	—	2.41	2.41	< 0.005	< 0.005	< 0.005	2.53
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.07	0.62	0.78	< 0.005	0.02	—	0.02	0.02	—	0.02	—	151	151	0.01	< 0.005	—	151
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.40	0.40	< 0.005	< 0.005	< 0.005	0.42
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.01	0.15	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.92	6.92	< 0.005	< 0.005	0.01	7.44
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.53	3.53	< 0.005	< 0.005	< 0.005	3.71
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.97	4.97	< 0.005	< 0.005	< 0.005	5.21
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.02	0.21	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.63	6.63	< 0.005	< 0.005	< 0.005	7.29
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.58	3.58	< 0.005	< 0.005	< 0.005	3.76
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.05	5.05	< 0.005	< 0.005	< 0.005	5.31
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.04	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.61	1.61	< 0.005	< 0.005	< 0.005	1.74
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.86	0.86	< 0.005	< 0.005	< 0.005	0.90
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.21	1.21	< 0.005	< 0.005	< 0.005	1.27
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.27	0.27	< 0.005	< 0.005	< 0.005	0.29
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
Hauling	< 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

3.28. PG&E Tranquility Switching Station Upgrades (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	1.93	1.62	14.1	17.8	0.04	0.55	—	0.55	0.50	—	0.50	—	3,781	3,781	0.15	0.03	—	3,794
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	9.93	9.93	< 0.005	< 0.005	0.01	10.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.93	1.62	14.1	17.8	0.04	0.55	—	0.55	0.50	—	0.50	—	3,781	3,781	0.15	0.03	—	3,794
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.39	3.41	4.30	0.01	0.13	—	0.13	0.12	—	0.12	—	912	912	0.04	0.01	—	915
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.08	0.08	< 0.005	0.01	0.01	—	2.41	2.41	< 0.005	< 0.005	< 0.005	2.53
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.07	0.62	0.78	< 0.005	0.02	—	0.02	0.02	—	0.02	—	151	151	0.01	< 0.005	—	151

Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.40	0.40	< 0.005	< 0.005	< 0.005	0.42
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.01	0.15	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.92	6.92	< 0.005	< 0.005	0.01	7.44
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.53	3.53	< 0.005	< 0.005	< 0.005	3.71
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.97	4.97	< 0.005	< 0.005	< 0.005	5.21
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.02	0.21	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.63	6.63	< 0.005	< 0.005	< 0.005	7.29
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.58	3.58	< 0.005	< 0.005	< 0.005	3.76
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.05	5.05	< 0.005	< 0.005	< 0.005	5.31
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.04	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.61	1.61	< 0.005	< 0.005	< 0.005	1.74
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.86	0.86	< 0.005	< 0.005	< 0.005	0.90
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.21	1.21	< 0.005	< 0.005	< 0.005	1.27
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.27	0.27	< 0.005	< 0.005	< 0.005	0.29
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
Hauling	< 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

3.29. Underground Work (2027) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	0.25	6.42	12.2	0.02	0.09	—	0.09	0.08	—	0.08	—	1,668	1,668	0.07	0.01	—	1,674
Onsite truck	0.01	0.01	0.16	0.11	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	25.4	25.4	< 0.005	< 0.005	0.02	26.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	1.93	3.69	< 0.005	0.03	—	0.03	0.02	—	0.02	—	503	503	0.02	< 0.005	—	504
Onsite truck	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	0.26	0.26	< 0.005	0.03	0.03	—	7.70	7.70	< 0.005	< 0.005	< 0.005	8.09
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.35	0.67	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	83.2	83.2	< 0.005	< 0.005	—	83.5
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	—	1.27	1.27	< 0.005	< 0.005	< 0.005	1.34
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.28	0.27	0.06	0.65	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	28.3	28.3	0.01	0.01	0.05	30.3
Vendor	0.01	0.01	0.11	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.0	18.0	< 0.005	< 0.005	0.02	18.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.02	0.23	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	8.22	8.22	< 0.005	< 0.005	0.01	9.01
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.46	5.46	< 0.005	< 0.005	< 0.005	5.73
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	< 0.005	0.04	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.36	1.36	< 0.005	< 0.005	< 0.005	1.49
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.90	0.90	< 0.005	< 0.005	< 0.005	0.95
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.30. Underground Work (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	0.25	0.25	6.42	12.2	0.02	0.09	—	0.09	0.08	—	0.08	—	1,668	1,668	0.07	0.01	—	1,674
Onsite truck	0.01	0.01	0.16	0.11	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	25.4	25.4	< 0.005	< 0.005	0.02	26.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.07	0.07	1.93	3.69	< 0.005	0.03	—	0.03	0.02	—	0.02	—	503	503	0.02	< 0.005	—	504
Onsite truck	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	0.26	0.26	< 0.005	0.03	0.03	—	7.70	7.70	< 0.005	< 0.005	< 0.005	8.09
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.35	0.67	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	83.2	83.2	< 0.005	< 0.005	—	83.5
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	—	1.27	1.27	< 0.005	< 0.005	< 0.005	1.34
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.28	0.27	0.06	0.65	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	28.3	28.3	0.01	0.01	0.05	30.3
Vendor	0.01	0.01	0.11	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.0	18.0	< 0.005	< 0.005	0.02	18.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.02	0.23	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	8.22	8.22	< 0.005	< 0.005	0.01	9.01
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.46	5.46	< 0.005	< 0.005	< 0.005	5.73
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	< 0.005	0.04	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.36	1.36	< 0.005	< 0.005	< 0.005	1.49
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.90	0.90	< 0.005	< 0.005	< 0.005	0.95
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

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.

4.1.2. Mitigated

Mobile source emissions results are presented in Sections 2.5. 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	—	—	—	—	—	—	—	—	—	—	—	—	40.0	40.0	0.01	< 0.005	—	40.4
Total	—	—	—	—	—	—	—	—	—	—	—	—	40.0	40.0	0.01	< 0.005	—	40.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	40.0	40.0	0.01	< 0.005	—	40.4
Total	—	—	—	—	—	—	—	—	—	—	—	—	40.0	40.0	0.01	< 0.005	—	40.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	6.63	6.63	< 0.005	< 0.005	—	6.69

Total	—	—	—	—	—	—	—	—	—	—	—	—	6.63	6.63	< 0.005	< 0.005	—	6.69

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	40.0	40.0	0.01	< 0.005	—	40.4
Total	—	—	—	—	—	—	—	—	—	—	—	—	40.0	40.0	0.01	< 0.005	—	40.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	40.0	40.0	0.01	< 0.005	—	40.4
Total	—	—	—	—	—	—	—	—	—	—	—	—	40.0	40.0	0.01	< 0.005	—	40.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	6.63	6.63	< 0.005	< 0.005	—	6.69
Total	—	—	—	—	—	—	—	—	—	—	—	—	6.63	6.63	< 0.005	< 0.005	—	6.69

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
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
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
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

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

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
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	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.3.2. Mitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coating	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	—	—	—	—	—	—	—	—	—	—	—	0.00	16.1	16.1	0.95	< 0.005	—	41.0
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	16.1	16.1	0.95	< 0.005	—	41.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.00	16.1	16.1	0.95	< 0.005	—	41.0
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	16.1	16.1	0.95	< 0.005	—	41.0

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.00	2.67	2.67	0.16	< 0.005	—	6.79
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	2.67	2.67	0.16	< 0.005	—	6.79

4.4.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.00	11.9	11.9	0.95	< 0.005	—	36.8
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	11.9	11.9	0.95	< 0.005	—	36.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.00	11.9	11.9	0.95	< 0.005	—	36.8
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	11.9	11.9	0.95	< 0.005	—	36.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.00	1.98	1.98	0.16	< 0.005	—	6.09
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	1.98	1.98	0.16	< 0.005	—	6.09

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	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Total	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Total	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.33	0.00	0.33	0.03	0.00	—	1.16
Total	—	—	—	—	—	—	—	—	—	—	—	0.33	0.00	0.33	0.03	0.00	—	1.16

4.5.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Total	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Total	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.33	0.00	0.33	0.03	0.00	—	1.16
Total	—	—	—	—	—	—	—	—	—	—	—	0.33	0.00	0.33	0.03	0.00	—	1.16

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13

4.6.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13

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

4.7.2. Mitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

4.8.2. Mitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.9.2. Mitigated

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Decommissioning	Demolition	1/1/2050	10/5/2050	5.00	198	—
Move-On	Site Preparation	12/1/2026	12/14/2026	5.00	10.0	—
Cleanup/Testing/Restoration	Site Preparation	1/27/2028	5/29/2028	5.00	88.0	—
Site Preparation and Grading	Grading	12/15/2026	4/15/2027	5.00	88.0	—
Substation Construction	Building Construction	5/17/2027	5/12/2028	5.00	260	—
System Installation - Solar Facility	Building Construction	9/17/2027	5/19/2028	5.00	176	—
Gen-tie Line Installation	Building Construction	5/25/2027	5/22/2028	5.00	260	—
Battery/Container Installation	Building Construction	6/25/2027	2/26/2028	5.00	176	—

PG&E Tranquility Switching Station Upgrades	Building Construction	1/27/2028	5/29/2028	5.00	88.0	—
Underground Work	Trenching	4/16/2027	9/16/2027	5.00	110	—

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
Decommissioning	Tractors/Loaders/Backhoes	Diesel	Average	1.00	6.00	84.0	0.37
Move-On	Graders	Diesel	Tier 3	2.00	6.00	148	0.41
Move-On	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2.00	6.00	84.0	0.37
Move-On	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	6.00	367	0.40
Move-On	Scrapers	Diesel	Tier 3	2.00	6.00	423	0.48
Move-On	Rubber Tired Loaders	Diesel	Tier 4 Final	2.00	6.00	150	0.36
Move-On	Skid Steer Loaders	Diesel	Tier 4 Final	3.00	6.00	71.0	0.37
Move-On	Generator Sets	Diesel	Tier 4 Final	1.00	24.0	25.0	0.74
Cleanup/Testing/Restoration	Tractors/Loaders/Backhoes	Diesel	Tier 3	1.00	4.00	84.0	0.37
Cleanup/Testing/Restoration	Graders	Diesel	Tier 3	1.00	6.00	148	0.41
Cleanup/Testing/Restoration	Scrapers	Diesel	Tier 3	2.00	6.00	423	0.48
Site Preparation and Grading	Pumps	Diesel	Tier 4 Final	2.00	8.00	25.0	0.74
Site Preparation and Grading	Graders	Diesel	Tier 3	2.00	8.00	148	0.41
Site Preparation and Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	3.00	367	0.40

Site Preparation and Grading	Scrapers	Diesel	Tier 4 Final	3.00	6.00	423	0.48
Site Preparation and Grading	Rubber Tired Loaders	Diesel	Tier 4 Final	3.00	6.00	150	0.36
Site Preparation and Grading	Tractors/Loaders/Backhoes	Diesel	Tier 3	4.00	6.00	84.0	0.37
Site Preparation and Grading	Rollers	Diesel	Tier 4 Final	1.00	3.00	36.0	0.38
Site Preparation and Grading	Skid Steer Loaders	Diesel	Tier 4 Final	2.00	6.00	71.0	0.37
Site Preparation and Grading	Generator Sets	Diesel	Tier 4 Final	2.00	24.0	25.0	0.74
Substation Construction	Generator Sets	Diesel	Tier 4 Final	1.00	12.0	25.0	0.74
Substation Construction	Other General Industrial Equipment	Diesel	Tier 4 Final	1.00	4.00	35.0	0.34
Substation Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	4.00	84.0	0.37
Substation Construction	Cranes	Diesel	Tier 4 Final	1.00	5.00	367	0.29
Substation Construction	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00	4.00	96.0	0.40
Substation Construction	Aerial Lifts	Diesel	Tier 4 Final	1.00	4.00	46.0	0.31
Substation Construction	Graders	Diesel	Tier 4 Final	1.00	6.00	148	0.41
Substation Construction	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	3.00	367	0.40
Substation Construction	Scrapers	Diesel	Tier 3	1.00	4.00	423	0.48
Substation Construction	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	3.00	150	0.36
Substation Construction	Excavators	Diesel	Tier 4 Final	1.00	4.00	36.0	0.38

Substation Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	6.00	84.0	0.37
System Installation - Solar Facility	Rough Terrain Forklifts	Diesel	Tier 4 Final	5.00	4.00	96.0	0.40
System Installation - Solar Facility	Aerial Lifts	Diesel	Tier 4 Final	3.00	4.00	46.0	0.31
System Installation - Solar Facility	Skid Steer Loaders	Diesel	Tier 4 Final	10.0	4.00	71.0	0.37
System Installation - Solar Facility	Air Compressors	Diesel	Tier 4 Final	1.00	6.00	37.0	0.48
System Installation - Solar Facility	Other Construction Equipment	Diesel	Tier 4 Final	15.0	6.00	82.0	0.42
System Installation - Solar Facility	Generator Sets	Diesel	Tier 4 Final	2.00	24.0	25.0	0.74
Gen-tie Line Installation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	4.00	84.0	0.37
Gen-tie Line Installation	Cranes	Diesel	Tier 4 Final	1.00	4.00	367	0.29
Gen-tie Line Installation	Crawler Tractors	Diesel	Tier 4 Final	1.00	4.00	87.0	0.43
Gen-tie Line Installation	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	2.00	83.0	0.50
Gen-tie Line Installation	Rough Terrain Forklifts	Diesel	Tier 4 Final	1.00	4.00	96.0	0.40
Gen-tie Line Installation	Other Construction Equipment	Diesel	Tier 4 Final	1.00	4.00	82.0	0.42
Gen-tie Line Installation	Generator Sets	Diesel	Tier 4 Final	1.00	4.00	25.0	0.74
Battery/Container Installation	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	8.00	150	0.36
Battery/Container Installation	Excavators	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
Battery/Container Installation	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00	8.00	96.0	0.40

Battery/Container Installation	Cranes	Diesel	Tier 4 Final	1.00	8.00	367	0.29
Battery/Container Installation	Graders	Diesel	Tier 3	1.00	8.00	148	0.41
Battery/Container Installation	Skid Steer Loaders	Diesel	Tier 4 Final	2.00	8.00	71.0	0.37
Battery/Container Installation	Welders	Diesel	Tier 4 Final	1.00	8.00	46.0	0.45
Battery/Container Installation	Generator Sets	Diesel	Tier 4 Final	1.00	8.00	25.0	0.74
Battery/Container Installation	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	8.00	83.0	0.50
PG&E Tranquility Switching Station Upgrades	Generator Sets	Diesel	Average	1.00	12.0	14.0	0.74
PG&E Tranquility Switching Station Upgrades	Other General Industrial Equipment	Diesel	Average	1.00	4.00	35.0	0.34
PG&E Tranquility Switching Station Upgrades	Tractors/Loaders/Backhoes	Diesel	Average	2.00	5.00	84.0	0.37
PG&E Tranquility Switching Station Upgrades	Cranes	Diesel	Average	1.00	5.00	367	0.29
PG&E Tranquility Switching Station Upgrades	Rough Terrain Forklifts	Diesel	Average	2.00	4.00	96.0	0.40
PG&E Tranquility Switching Station Upgrades	Aerial Lifts	Diesel	Average	1.00	4.00	46.0	0.31
PG&E Tranquility Switching Station Upgrades	Graders	Diesel	Average	1.00	6.00	148	0.41
PG&E Tranquility Switching Station Upgrades	Rubber Tired Dozers	Diesel	Average	1.00	3.00	367	0.40

PG&E Tranquility Switching Station Upgrades	Scrapers	Diesel	Average	1.00	4.00	423	0.48
PG&E Tranquility Switching Station Upgrades	Rubber Tired Loaders	Diesel	Average	1.00	3.00	150	0.36
PG&E Tranquility Switching Station Upgrades	Excavators	Diesel	Average	1.00	4.00	36.0	0.38
Underground Work	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	6.00	84.0	0.37
Underground Work	Trenchers	Diesel	Tier 4 Final	5.00	6.00	40.0	0.50
Underground Work	Plate Compactors	Diesel	Tier 4 Final	1.00	6.00	25.0	0.43
Underground Work	Excavators	Diesel	Tier 4 Final	1.00	4.00	36.0	0.38
Underground Work	Other Construction Equipment	Diesel	Tier 4 Final	1.00	6.00	82.0	0.42
Underground Work	Tractors/Loaders/Backhoes	Diesel	Tier 3	2.00	4.00	84.0	0.37
Underground Work	Rollers	Diesel	Tier 4 Final	2.00	2.00	36.0	0.38

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Decommissioning	Tractors/Loaders/Backhoes	Diesel	Average	1.00	6.00	84.0	0.37
Move-On	Graders	Diesel	Tier 3	2.00	6.00	148	0.41
Move-On	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2.00	6.00	84.0	0.37
Move-On	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	6.00	367	0.40
Move-On	Scrapers	Diesel	Tier 3	2.00	6.00	423	0.48
Move-On	Rubber Tired Loaders	Diesel	Tier 4 Final	2.00	6.00	150	0.36
Move-On	Skid Steer Loaders	Diesel	Tier 4 Final	3.00	6.00	71.0	0.37
Move-On	Generator Sets	Diesel	Tier 4 Final	1.00	24.0	25.0	0.74

Cleanup/Testing/Resto	Tractors/Loaders/Back	Diesel	Tier 3	1.00	4.00	84.0	0.37
Cleanup/Testing/Restoration	Graders	Diesel	Tier 3	1.00	6.00	148	0.41
Cleanup/Testing/Restoration	Scrapers	Diesel	Tier 3	2.00	6.00	423	0.48
Site Preparation and Grading	Pumps	Diesel	Tier 4 Final	2.00	8.00	25.0	0.74
Site Preparation and Grading	Graders	Diesel	Tier 3	2.00	8.00	148	0.41
Site Preparation and Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	3.00	367	0.40
Site Preparation and Grading	Scrapers	Diesel	Tier 4 Final	3.00	6.00	423	0.48
Site Preparation and Grading	Rubber Tired Loaders	Diesel	Tier 4 Final	3.00	6.00	150	0.36
Site Preparation and Grading	Tractors/Loaders/Backhoes	Diesel	Tier 3	4.00	6.00	84.0	0.37
Site Preparation and Grading	Rollers	Diesel	Tier 4 Final	1.00	3.00	36.0	0.38
Site Preparation and Grading	Skid Steer Loaders	Diesel	Tier 4 Final	2.00	6.00	71.0	0.37
Site Preparation and Grading	Generator Sets	Diesel	Tier 4 Final	2.00	24.0	25.0	0.74
Substation Construction	Generator Sets	Diesel	Tier 4 Final	1.00	12.0	25.0	0.74
Substation Construction	Other General Industrial Equipment	Diesel	Tier 4 Final	1.00	4.00	35.0	0.34
Substation Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	4.00	84.0	0.37
Substation Construction	Cranes	Diesel	Tier 4 Final	1.00	5.00	367	0.29
Substation Construction	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00	4.00	96.0	0.40
Substation Construction	Aerial Lifts	Diesel	Tier 4 Final	1.00	4.00	46.0	0.31

Substation Construction	Graders	Diesel	Tier 4 Final	1.00	6.00	148	0.41
Substation Construction	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	3.00	367	0.40
Substation Construction	Scrapers	Diesel	Tier 3	1.00	4.00	423	0.48
Substation Construction	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	3.00	150	0.36
Substation Construction	Excavators	Diesel	Tier 4 Final	1.00	4.00	36.0	0.38
Substation Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	6.00	84.0	0.37
System Installation - Solar Facility	Rough Terrain Forklifts	Diesel	Tier 4 Final	5.00	4.00	96.0	0.40
System Installation - Solar Facility	Aerial Lifts	Diesel	Tier 4 Final	3.00	4.00	46.0	0.31
System Installation - Solar Facility	Skid Steer Loaders	Diesel	Tier 4 Final	10.0	4.00	71.0	0.37
System Installation - Solar Facility	Air Compressors	Diesel	Tier 4 Final	1.00	6.00	37.0	0.48
System Installation - Solar Facility	Other Construction Equipment	Diesel	Tier 4 Final	15.0	6.00	82.0	0.42
System Installation - Solar Facility	Generator Sets	Diesel	Tier 4 Final	2.00	24.0	25.0	0.74
Gen-tie Line Installation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	4.00	84.0	0.37
Gen-tie Line Installation	Cranes	Diesel	Tier 4 Final	1.00	4.00	367	0.29
Gen-tie Line Installation	Crawler Tractors	Diesel	Tier 4 Final	1.00	4.00	87.0	0.43
Gen-tie Line Installation	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	2.00	83.0	0.50
Gen-tie Line Installation	Rough Terrain Forklifts	Diesel	Tier 4 Final	1.00	4.00	96.0	0.40

Gen-tie Line Installation	Other Construction Equipment	Diesel	Tier 4 Final	1.00	4.00	82.0	0.42
Gen-tie Line Installation	Generator Sets	Diesel	Tier 4 Final	1.00	4.00	25.0	0.74
Battery/Container Installation	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	8.00	150	0.36
Battery/Container Installation	Excavators	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
Battery/Container Installation	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00	8.00	96.0	0.40
Battery/Container Installation	Cranes	Diesel	Tier 4 Final	1.00	8.00	367	0.29
Battery/Container Installation	Graders	Diesel	Tier 3	1.00	8.00	148	0.41
Battery/Container Installation	Skid Steer Loaders	Diesel	Tier 4 Final	2.00	8.00	71.0	0.37
Battery/Container Installation	Welders	Diesel	Tier 4 Final	1.00	8.00	46.0	0.45
Battery/Container Installation	Generator Sets	Diesel	Tier 4 Final	1.00	8.00	25.0	0.74
Battery/Container Installation	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	8.00	83.0	0.50
PG&E Tranquility Switching Station Upgrades	Generator Sets	Diesel	Average	1.00	12.0	14.0	0.74
PG&E Tranquility Switching Station Upgrades	Other General Industrial Equipment	Diesel	Average	1.00	4.00	35.0	0.34
PG&E Tranquility Switching Station Upgrades	Tractors/Loaders/Backhoes	Diesel	Average	2.00	5.00	84.0	0.37
PG&E Tranquility Switching Station Upgrades	Cranes	Diesel	Average	1.00	5.00	367	0.29

PG&E Tranquility Switching Station Upgrades	Rough Terrain Forklifts	Diesel	Average	2.00	4.00	96.0	0.40
PG&E Tranquility Switching Station Upgrades	Aerial Lifts	Diesel	Average	1.00	4.00	46.0	0.31
PG&E Tranquility Switching Station Upgrades	Graders	Diesel	Average	1.00	6.00	148	0.41
PG&E Tranquility Switching Station Upgrades	Rubber Tired Dozers	Diesel	Average	1.00	3.00	367	0.40
PG&E Tranquility Switching Station Upgrades	Scrapers	Diesel	Average	1.00	4.00	423	0.48
PG&E Tranquility Switching Station Upgrades	Rubber Tired Loaders	Diesel	Average	1.00	3.00	150	0.36
PG&E Tranquility Switching Station Upgrades	Excavators	Diesel	Average	1.00	4.00	36.0	0.38
Underground Work	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	6.00	84.0	0.37
Underground Work	Trenchers	Diesel	Tier 4 Final	5.00	6.00	40.0	0.50
Underground Work	Plate Compactors	Diesel	Tier 4 Final	1.00	6.00	25.0	0.43
Underground Work	Excavators	Diesel	Tier 4 Final	1.00	4.00	36.0	0.38
Underground Work	Other Construction Equipment	Diesel	Tier 4 Final	1.00	6.00	82.0	0.42
Underground Work	Tractors/Loaders/Backhoes	Diesel	Tier 3	2.00	4.00	84.0	0.37
Underground Work	Rollers	Diesel	Tier 4 Final	2.00	2.00	36.0	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Move-On	—	—	—	—
Move-On	Worker	20.0	0.25	LDA,LDT1,LDT2
Move-On	Vendor	10.0	0.25	HHDT,MHDT
Move-On	Hauling	2.00	0.25	HHDT
Move-On	Onsite truck	12.0	0.25	HHDT
Site Preparation and Grading	—	—	—	—
Site Preparation and Grading	Worker	150	0.25	LDA,LDT1,LDT2
Site Preparation and Grading	Vendor	10.0	0.25	HHDT,MHDT
Site Preparation and Grading	Hauling	0.00	0.25	HHDT
Site Preparation and Grading	Onsite truck	10.0	0.25	HHDT
Substation Construction	—	—	—	—
Substation Construction	Worker	20.0	0.25	LDA,LDT1,LDT2
Substation Construction	Vendor	2.00	0.25	HHDT,MHDT
Substation Construction	Hauling	2.00	0.25	HHDT
Substation Construction	Onsite truck	4.00	0.25	HHDT
Decommissioning	—	—	—	—
Decommissioning	Worker	40.0	0.25	LDA,LDT1,LDT2
Decommissioning	Vendor	10.0	0.25	HHDT,MHDT
Decommissioning	Hauling	8.00	0.25	HHDT
Decommissioning	Onsite truck	18.0	0.25	HHDT
Cleanup/Testing/Restoration	—	—	—	—
Cleanup/Testing/Restoration	Worker	50.0	0.25	LDA,LDT1,LDT2
Cleanup/Testing/Restoration	Vendor	6.00	0.25	HHDT,MHDT
Cleanup/Testing/Restoration	Hauling	0.00	0.25	HHDT
Cleanup/Testing/Restoration	Onsite truck	6.00	0.25	HHDT
System Installation - Solar Facility	—	—	—	—
System Installation - Solar Facility	Worker	800	0.25	LDA,LDT1,LDT2

System Installation - Solar Facility	Vendor	10.0	0.25	HHDT,MHDT
System Installation - Solar Facility	Hauling	4.00	0.25	HHDT
System Installation - Solar Facility	Onsite truck	14.0	0.25	HHDT
Gen-tie Line Installation	—	—	—	—
Gen-tie Line Installation	Worker	20.0	0.25	LDA,LDT1,LDT2
Gen-tie Line Installation	Vendor	2.00	0.25	HHDT,MHDT
Gen-tie Line Installation	Hauling	2.00	0.25	HHDT
Gen-tie Line Installation	Onsite truck	4.00	0.25	HHDT
Battery/Container Installation	—	—	—	—
Battery/Container Installation	Worker	50.0	0.25	LDA,LDT1,LDT2
Battery/Container Installation	Vendor	14.0	0.25	HHDT,MHDT
Battery/Container Installation	Hauling	4.00	0.25	HHDT
Battery/Container Installation	Onsite truck	18.0	0.25	HHDT
PG&E Tranquility Switching Station Upgrades	—	—	—	—
PG&E Tranquility Switching Station Upgrades	Worker	20.0	0.25	LDA,LDT1,LDT2
PG&E Tranquility Switching Station Upgrades	Vendor	2.00	0.25	HHDT,MHDT
PG&E Tranquility Switching Station Upgrades	Hauling	2.00	0.25	HHDT
PG&E Tranquility Switching Station Upgrades	Onsite truck	4.00	0.25	HHDT
Underground Work	—	—	—	—
Underground Work	Worker	80.0	0.25	LDA,LDT1,LDT2
Underground Work	Vendor	10.0	0.25	HHDT,MHDT
Underground Work	Hauling	0.00	0.25	HHDT
Underground Work	Onsite truck	10.0	0.25	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Move-On	—	—	—	—
Move-On	Worker	20.0	0.25	LDA,LDT1,LDT2
Move-On	Vendor	10.0	0.25	HHDT,MHDT
Move-On	Hauling	2.00	0.25	HHDT
Move-On	Onsite truck	12.0	0.25	HHDT
Site Preparation and Grading	—	—	—	—
Site Preparation and Grading	Worker	150	0.25	LDA,LDT1,LDT2
Site Preparation and Grading	Vendor	10.0	0.25	HHDT,MHDT
Site Preparation and Grading	Hauling	0.00	0.25	HHDT
Site Preparation and Grading	Onsite truck	10.0	0.25	HHDT
Substation Construction	—	—	—	—
Substation Construction	Worker	20.0	0.25	LDA,LDT1,LDT2
Substation Construction	Vendor	2.00	0.25	HHDT,MHDT
Substation Construction	Hauling	2.00	0.25	HHDT
Substation Construction	Onsite truck	4.00	0.25	HHDT
Decommissioning	—	—	—	—
Decommissioning	Worker	40.0	0.25	LDA,LDT1,LDT2
Decommissioning	Vendor	10.0	0.25	HHDT,MHDT
Decommissioning	Hauling	8.00	0.25	HHDT
Decommissioning	Onsite truck	18.0	0.25	HHDT
Cleanup/Testing/Restoration	—	—	—	—
Cleanup/Testing/Restoration	Worker	50.0	0.25	LDA,LDT1,LDT2
Cleanup/Testing/Restoration	Vendor	6.00	0.25	HHDT,MHDT
Cleanup/Testing/Restoration	Hauling	0.00	0.25	HHDT
Cleanup/Testing/Restoration	Onsite truck	6.00	0.25	HHDT
System Installation - Solar Facility	—	—	—	—
System Installation - Solar Facility	Worker	800	0.25	LDA,LDT1,LDT2

System Installation - Solar Facility	Vendor	10.0	0.25	HHDT,MHDT
System Installation - Solar Facility	Hauling	4.00	0.25	HHDT
System Installation - Solar Facility	Onsite truck	14.0	0.25	HHDT
Gen-tie Line Installation	—	—	—	—
Gen-tie Line Installation	Worker	20.0	0.25	LDA,LDT1,LDT2
Gen-tie Line Installation	Vendor	2.00	0.25	HHDT,MHDT
Gen-tie Line Installation	Hauling	2.00	0.25	HHDT
Gen-tie Line Installation	Onsite truck	4.00	0.25	HHDT
Battery/Container Installation	—	—	—	—
Battery/Container Installation	Worker	50.0	0.25	LDA,LDT1,LDT2
Battery/Container Installation	Vendor	14.0	0.25	HHDT,MHDT
Battery/Container Installation	Hauling	4.00	0.25	HHDT
Battery/Container Installation	Onsite truck	18.0	0.25	HHDT
PG&E Tranquility Switching Station Upgrades	—	—	—	—
PG&E Tranquility Switching Station Upgrades	Worker	20.0	0.25	LDA,LDT1,LDT2
PG&E Tranquility Switching Station Upgrades	Vendor	2.00	0.25	HHDT,MHDT
PG&E Tranquility Switching Station Upgrades	Hauling	2.00	0.25	HHDT
PG&E Tranquility Switching Station Upgrades	Onsite truck	4.00	0.25	HHDT
Underground Work	—	—	—	—
Underground Work	Worker	80.0	0.25	LDA,LDT1,LDT2
Underground Work	Vendor	10.0	0.25	HHDT,MHDT
Underground Work	Hauling	0.00	0.25	HHDT
Underground Work	Onsite truck	10.0	0.25	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

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)

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Decommissioning	0.00	0.00	0.00	3,000	—
Move-On	—	—	26.3	0.00	—
Cleanup/Testing/Restoration	—	—	165	0.00	—
Site Preparation and Grading	—	—	2,412	0.00	—

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
General Light Industry	0.00	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	204	0.03	< 0.005
2027	0.00	204	0.03	< 0.005
2028	0.00	204	0.03	< 0.005
2050	0.00	204	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	36.0	0.00	0.00	9,386	9.00	0.00	0.00	2,346

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	36.0	0.00	0.00	9,386	9.00	0.00	0.00	2,346

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

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	4,500	1,500	—

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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

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	71,616	204	0.0330	0.0040	0.00

5.11.2. Mitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Light Industry	71,616	204	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	693,750	10,795,333

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Light Industry	693,750	10,795,333

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Light Industry	3.72	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Light Industry	3.72	—

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

5.14.2. Mitigated

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

5.15.2. Mitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. 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	29.2	annual days of extreme heat
Extreme Precipitation	0.15	annual days with precipitation above 20 mm

Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

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

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A

Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	62.7
AQ-PM	37.8
AQ-DPM	15.2
Drinking Water	75.2
Lead Risk Housing	78.0
Pesticides	86.7
Toxic Releases	17.8
Traffic	10.3
Effect Indicators	—

CleanUp Sites	58.2
Groundwater	71.8
Haz Waste Facilities/Generators	7.35
Impaired Water Bodies	58.7
Solid Waste	0.00
Sensitive Population	—
Asthma	87.9
Cardio-vascular	57.6
Low Birth Weights	66.6
Socioeconomic Factor Indicators	—
Education	99.8
Housing	77.6
Linguistic	99.9
Poverty	99.3
Unemployment	99.6

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	0.30796869
Employed	2.014628513
Median HI	3.413319646
Education	—
Bachelor's or higher	0.808417811
High school enrollment	100
Preschool enrollment	19.49185166
Transportation	—

Auto Access	12.42140382
Active commuting	40.07442577
Social	—
2-parent households	60.47735147
Voting	1.360195047
Neighborhood	—
Alcohol availability	34.0177082
Park access	30.89952521
Retail density	1.809316053
Supermarket access	61.52957783
Tree canopy	3.27216733
Housing	—
Homeownership	22.10958553
Housing habitability	9.482869242
Low-inc homeowner severe housing cost burden	2.386757346
Low-inc renter severe housing cost burden	44.14217888
Uncrowded housing	20.37726165
Health Outcomes	—
Insured adults	2.463749519
Arthritis	0.0
Asthma ER Admissions	12.0
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	27.7

Cognitively Disabled	85.7
Physically Disabled	78.7
Heart Attack ER Admissions	7.0
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	90.3
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	14.1
Elderly	89.5
English Speaking	0.2
Foreign-born	96.1
Outdoor Workers	0.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	74.7
Traffic Density	9.6
Traffic Access	0.0
Other Indices	—
Hardship	99.4
Other Decision Support	—

2016 Voting	9.1

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	85.0
Healthy Places Index Score for Project Location (b)	1.00
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Based on applicant provided information.
Construction: Off-Road Equipment	Based on applicant provided information.
Construction: Trips and VMT	Based on applicant provided information.
Operations: Vehicle Data	16 workers for operations and maintenance monday through friday.
Operations: Landscape Equipment	No landscaping equipment.
Operations: Energy Use	O&M building is all-electric.

Operations: Water and Waste Water	outdoor water use for panel washing. This also amortized the construction and decommissioning water use.
Construction: Dust From Material Movement	Based on the project description.
Operations: Fleet Mix	Based on worker mix.

NREL
NATIONAL RENEWABLE ENERGY LABORATORY

Caution: Photovoltaic system performance predictions calculated by PVWatts® include many inherent assumptions and uncertainties and do not reflect variations between PV technologies nor site-specific characteristics except as represented by PVWatts® inputs. For example, PV modules with better performance are not differentiated within PVWatts® from lesser performing modules. Both NREL and private companies provide more sophisticated PV modeling tools (such as the System Advisor Model at //sam.nrel.gov) that allow for more precise and complex modeling of PV systems.

The expected range is based on 30 years of actual weather data at the given location and is intended to provide an indication of the variation you might see. For more information, please refer to this NREL report: The Error Report.

Disclaimer: The PVWatts® Model ("Model") is provided by the National Renewable Energy Laboratory ("NREL"), which is operated by the Alliance for Sustainable Energy, LLC ("Alliance") for the U.S. Department Of Energy ("DOE") and may be used for any purpose whatsoever.

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RESULTS

503,257,986 kWh/Year*

System output may range from 477,994,435 to 514,430,313 kWh per year near this location.

Month	Solar Radiation (kWh / m^2 / day)	AC Energy (kWh)
January	3.35	25,091,067
February	4.40	29,187,165
March	6.09	44,284,136
April	6.87	47,439,556
May	7.52	52,592,181
June	8.27	55,019,431
July	8.04	53,432,435
August	7.78	51,695,249
September	7.13	47,045,352
October	5.81	41,170,010
November	4.25	30,123,676
December	3.45	26,177,727
Annual	**6.08**	**503,257,985**

Location and Station Identification

Requested Location	mendota, ca
Weather Data Source	Lat, Lng: 36.65, -120.38 7.2 mi

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The energy output range is based on analysis of 30 years of historical weather data, and is intended to provide an indication of the possible interannual variability in generation for a Fixed (open rack) PV system at this location.

Latitude	**36.65° N**
Longitude	**120.38° W**

PV System Specifications

DC System Size	**300000 kW**
Module Type	**Standard**
Array Type	**Fixed (open rack)**
System Losses	**14.08%**
Array Tilt	**20°**
Array Azimuth	**180°**
DC to AC Size Ratio	**1.2**
Inverter Efficiency	**96%**
Ground Coverage Ratio	**0.4**
Albedo	***From weather file***
Bifacial	**No (0)**
Monthly Irradiance Loss	**Jan Feb Mar Apr May June** **0% 0% 0% 0% 0% 0%** **July Aug Sept Oct Nov Dec** **0% 0% 0% 0% 0% 0%**

Performance Metrics

DC Capacity Factor	**19.1%**

Year	PG&E GHG Emission Factor	Avoided GHG Emissions
	lb CO_2e/MWh	$MTCO_2$
2019	206.00	
2020	198.07	
2021	190.15	-
2022	182.23	-
2023	174.31	-
2024	166.38	-
2025	158.46	-
2026	150.54	-
2027	142.61	-
2028	134.69	30,746.34
2029	126.77	28,937.73
2030	118.84	27,129.12
2031	110.92	25,320.51
2032	103.00	23,511.91
2033	95.08	21,703.30
2034	87.15	19,894.69
2035	79.23	18,086.08
2036	71.31	16,277.47
2037	63.38	14,468.87
2038	55.46	12,660.26
2039	47.54	10,851.65
2040	39.61	9,043.04
2041	31.69	7,234.43
2042	23.77	5,425.82
2043	15.85	3,617.22
2044	7.92	1,808.61
2045	0.00	0.00
	Total	**276,717.04**

Breaker (kV)	Number of Breakers	Pounds of SF_6	MT of SF_6	Leak Rate	Global Warming Potential	MT CO_2e
138	6	240	0.109	0.5%	23,900	13.01

Appendix B

Air Quality Impact Assessment

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Heartland BEEST2_2007-2011_ALLGRF	56

Attainment Status - San Joaquin Valley Air Basin

Criteria Pollutants	Averaging Time	State Designation	Federal Designation
Ozone (O_3)	1-hour	Nonattainment/Severe	—
	8-hour	Nonattainment	Nonattainment/Extreme[1]
Nitrogen Dioxide (NO_2)	1-hour	Attainment	Attainment/Unclassified[2]
	Annual	Attainment	Attainment
Sulfur Dioxide (SO_2)	All	Attainment	Attainment/Unclassified[2]
Carbon Monoxide (CO)	All	Attainment/Unclassified[2]	Attainment/Unclassified[2]
Particulates (as PM_{10})	24-hour	Nonattainment	Attainment
	Annual	Nonattainment	—
Particulates (as $PM_{2.5}$)	24-hour	—	Nonattainment
	Annual	Nonattainment	Nonattainment
Lead (Pb)	All	Attainment	Attainment/Unclassified[2]
Sulfates (as SO_4)	24-hour	Attainment	—
Hydrogen Sulfide (H_2S)	1-hour	Unclassified[2]	—
Vinyl Chloride (C_2H_3Cl)	24-hour	Attainment	—
Visibility	8-hour	Unclassified[2]	—

Sources: SJVAPCD 2014a, CARB 2014, EPA 2015a

Notes:

[1] The 0.08 ppmv federal 8-hour ozone standard applied until 2008; 0.075 ppmv thereafter

[2] At the time of designation, if the available data does not support a designation of attainment or nonattainment, the area is designated as unclassified

Ambient Air Quality Standards

Criteria Pollutants	Averaging Time	California Standards		Federal Standards	
		ppmv	µg/m^3	ppmv	µg/m^3
Ozone (O_3)	1-hour	0.09	180	—	—
	8-hour	0.07	137	0.07	137
Nitrogen Dioxide (NO_2)	1-hour	0.18	339	0.100	188
	Annual	0.03	57	0.053	100
Sulfur Dioxide (SO_2)	1-hour	0.25	655	0.075	196
	3-hour Secondary	—	—	0.50	1,300
	24-hour	0.04	105	0.14	367
	Annual	—	—	0.03	79
Carbon Monoxide (CO)	1-hour	20	22,900	35	40,100
	8-hour	9	10,300	9	10,300
	Lake Tahoe (8-hr)	6	6,900	—	—
Particulates (as PM_{10})	24-hour	—	50	—	150
	Annual	—	20	—	—
Particulates (as $PM_{2.5}$)	24-hour	—	—	—	35
	Annual Primary	—	12	—	9
	Annual Secondary	—	—	—	15
Lead (Pb)	30-day	—	1.5	—	—
	3-month (rolling)	—	—	—	0.15
Sulfates (as SO_4)	24-hour	—	25	—	—
Hydrogen Sulfide (H_2S)	1-hour	0.03	42	—	—
Vinyl Chloride (C_2H_3Cl)	24-hour	0.01	26	—	—
Visibility Reducing Particles	8-hour	Extinction coefficient of 0.23 per km; visibility of 10 miles or more (0.07 to 30 miles or more for Lake Tahoe) due to particles when relative humidity is less than 70%.		—	—

Source: CARB 2015c

Notes:

ppmv = parts per million by volume

µg/m^3 = micrograms per cubic meter

The 1.5 µg/m^3 federal quarterly lead standard applied until 2008; 0.15 µg/m^3 rolling 3-month average thereafter

For gases, ug/m^3 calculated from ppmv based on molecular weight and standard conditions:

Standard Temperature	25	°C for ambient air monitoring
Standard Molar Volume	24.465	liter/g-mole for ambient air monitoring

The thresholds of significance for Ambient Air Quality are based on the California Ambient Air Quality Standard (CAAQS) and National Ambient Air Quality Standard (NAAQS). A project would be considered to have a significant impact if its emissions are predicted to cause or contribute to a violation of an ambient air quality standard by exceeding any California Ambient Air Quality Standard (CAAQS) / National Ambient Air Quality Standard (NAAQS).

Conversion Chart - Based on State/Federal AAQS

Criteria Pollutants	Averaging Time	California Standards			Federal Standards		
		ppmv	µg/m^3	Factor	ppmv	µg/m^3	Factor
Ozone (O_3)	1-hour	0.09	180	2000	—	—	—
	8-hour	0.07	137	1957.143	0.07	137	1957.143
Nitrogen Dioxide (NO_2)	1-hour	0.18	339	1883.333	0.1	188	1880
	Annual	0.03	57	1900	0.053	100	1886.792
Sulfur Dioxide (SO_2)	1-hour	0.25	655	2620	0.075	196	2613.333
	3-hour Secondary	—	—	—	0.5	1300	2600
	24-hour	0.04	105	2625	0.14	367	2621.429
	Annual	—	—	—	0.03	78.64287	2621.429
Carbon Monoxide (CO)	1-hour	20	22900	1145.6	35	40100	1145.6
	8-hour	9	10300	1145.6	9	10300	1145.6
	Lake Tahoe (8-hr)	6	6900	1145.6	—	—	—
Particulates (as PM_{10})	24-hour	—	50	1	—	150	1
	Annual	—	20	1	—	—	—
Particulates (as $PM_{2.5}$)	24-hour	—	—	—	—	35	1
	Annual Primary	—	12	1	—	9	1
	Annual Secondary	—	—	—	—	15	1
Lead (Pb)	30-day	—	1.5	1	—	—	—
	3-month (rolling)	—	—	—	—	0.15	1
Sulfates (as SO_4)	24-hour	—	25	1	—	—	—
Hydrogen Sulfide (H_2S)	1-hour	0.03	41.78969	1392.99	—	—	—
Vinyl Chloride (C_2H_3Cl)	24-hour	0.01	25.54591	2554.591	—	—	—

SJVAPCD Significant Impact Levels

Pollutant	Averaging Period	SILs (µg/m^3)		
		Class I	Class II*	Class III
$PM_{2.5}$	24-hour	**	0.13	**
	Annual	**	1.2	**
Fugitive $PM_{2.5}$	24-hour	—	0.63	—
	Annual	—	2.5	—
PM_{10}	24-hour	0.2	5	—
	Annual	0.32	1	—
Fugitive PM_{10}	24-hour	—	10.4	—
	Annual	—	2.08	—
CO	1-hour	—	2000	—
	8-hour	—	500	—
NO_2	1-hour	—	7.5	—
	Annual	0.1	1	—
SO_2	1-hour	—	7.8	—
	3-hour	1	25	—
	24-hour	0.2	5	—
	Annual	0.08	1	—

Source: SJVAPCD APR-1925

* Only Class II SILs applicable for District use

Ambient Air Quality Analysis - Heartland Solar Project

Table 1. Max Emission Rates (lbs/day) for Project - Unmitigated

Max Rates	ROG	NO_X	CO	SO_X	PM_{10} - Exhaust	PM_{10} - Fugitive	$PM_{2.5}$ - Exhaust	$PM_{2.5}$ - Fugitive
	6.97	64.67	156.40	0.23	1.71	5.60	1.57	1.20
Total OnSite, lbs/day	6.97	64.67	156.40	0.23	1.71	5.60	1.57	1.20
Daily Max, g/s	0.11	1.02	2.46	0.004	0.03	0.09	0.02	0.02
Hourly Max lbs/hr	0.87	8.08	19.55	0.03	0.21	0.70	0.20	0.15

Note: Conversion assumes 8 hr workday

Table 2. AERMOD Maximum Impact X/Q, $(ug/m^3)/(g/s)$

Max 1-Hour	Max 3-Hour	Max 8-Hour	Max 24-Hour	Max Annual
30.17	22.20	19.66	12.61	2.65

Note: These concentrations are based on the AERMOD Results Summary Report

Table 3. Project Contribution Concentrations (ug/m3)

Pollutant	CAS No.	Hr. Max (g/s) (from Table 1)	X/Q (ug/m3)/(g/s) (from Table 2)	NO_X to NO_2 Conversion	Project Concentration (ug/m3)	Scaled Rate (lbs/hr)
1-hour CO	630080	2.46	30.17	–	74.31	19.550
8-hour CO	630080	2.46	19.66	–	48.42	17.595
1-hour NO_2	10102440	1.02	30.17	80%	24.58	8.084
Annual NO_2	10102440	1.02	2.65	100%	2.70	0.808
24-hour PM_{10} - Exhaust	85101	0.03	12.61	–	0.34	0.128
24-hour PM_{10} - Fugitive	85101	0.09	12.61	–	1.11	0.420
Annual PM_{10} - Exhaust	85101	0.03	2.65	–	0.07	0.021
Annual PM_{10} - Fugitive	85102	0.09	2.65	–	0.23	0.070
24-hour $PM_{2.5}$ - Exhaust	88101	0.02	12.61	–	0.31	0.118
24-hour $PM_{2.5}$ - Fugitive	88101	0.02	12.61	–	0.24	0.090
Annual $PM_{2.5}$ - Exhaust	88101	0.02	2.65	–	0.07	0.020
Annual $PM_{2.5}$ - Fugitive	88101	0.02	2.65	–	0.05	0.015
1-hour SO_2	7449095	0.004	30.17	–	0.11	0.029
3-hour SO_2	7449095	0.004	22.20	–	0.08	0.029
24-hour SO_2	7449095	0.004	12.61	–	0.05	0.017
Annual SO_2	7449095	0.004	2.65	–	0.01	0.003

Table 4. Level 1 AAQA for Heartland Solar Project

Impact Parameter	Applicable Standard	Project Area Maximum Background Concentration (Years 2021-2023)		Project Contribution (ug/m3)	Cumulative Concentration (ug/m3)	AAQS Threshold (ug/m3)	Step 1 Significance	SIL (ug/m3)	Step 2 Significance
		ppmv	ug/m^3						
1-hour CO	State	2.2	2,520	74.31	2,595	22,900	PASS	2000	Step 1
	Federal	2.2	2,520	74.31	2,595	40,100	PASS	2000	Step 1
8-hour CO	State	1.8	2,062	48.42	2,110	10,300	PASS	500	Step 1
	Federal	1.8	2,062	48.42	2,110	10,300	PASS	500	Step 1
1-hour NO_2	State	0.065	122	24.58	147	339	PASS	7.5	Step 1
	Federal	0.065	122	24.58	147	188	PASS	7.5	Step 1
Annual NO_2	State	0.012	23	2.70	25	57	PASS	1	Step 1
	Federal	0.012	23	2.70	25	100	PASS	1	Step 1
1-hour SO_2	State	0.008	21	0.11	21	655	PASS	7.5	Step 1
	Federal	0.008	21	0.11	21	196	PASS	7.8	Step 1
3-hour SO_2	Federal	0.003	7	0.08	7	1,300	PASS	25	Step 1
24-Hour SO_2	State	0.003	8	0.05	8	105	PASS	5	Step 1
	Federal	0.003	8	0.05	8	367	PASS	5	Step 1
Annual SO_2	Federal	0.0004	1	0.01	1	79	PASS	1	Step 1
24-hour PM_{10} - Exhaust	State	--	167	0.34	167	50	Step 2	5	PASS
	Federal	--	167	0.34	167	150	Step 2	5	PASS
24-hour PM_{10} - Fugitive	State	--	167	1.11	168	50	Step 2	10.4	PASS
	Federal	--	167	1.11	168	150	Step 2	10.4	PASS
Annual PM_{10} - Exhaust	State	--	44	0.07	44	20	Step 2	1	PASS
Annual PM_{10} - Fugitive	State	--	44	0.23	44	20	Step 2	2.08	PASS
24-hour $PM_{2.5}$ - Exhaust	Federal	--	65	0.31	66	35	Step 2	1.2	PASS
24-hour $PM_{2.5}$ - Fugitive	Federal	--	65	0.24	66	35	Step 2	2.5	PASS
Annual $PM_{2.5}$ - Exhaust	State	--	12.0	0.07	12.07	12	Step 2	0.13	PASS
	Federal*	--	12.0	0.07	12.07	9	Step 2	0.13	PASS
Annual $PM_{2.5}$ - Fugitive	State	--	12.0	0.05	12.05	12	Step 2	0.63	PASS
	Federal*	--	12.0	0.05	12.05	9	Step 2	0.63	PASS

Sources:

CARB. 2016. “Ambient Air Quality Standards.” May 4, 2016. Accessed August 2017. http://www.arb.ca.gov/research/aaqs/aaqs2.pdf.

CARB. 2017. “iADAM: Air Quality Data Statistics.” Accessed August 2017. http://www.arb.ca.gov/adam/topfour/topfour1.php.

SJVAPCD. 2014. APR 1925 (Policy for District Rule 2201 AAQA Modeling). April 2014.

Notes:

Annual PM2.5 federal monitoring data not available, therefore used state monitoring data. State SO2 data not available so federal data used

 *** MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT 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: ALL

 **Model Calculates 4 Short Term Average(s) of: 1-HR   3-HR   8-HR 24-HR
     and Calculates PERIOD Averages

 **This Run Includes: 7043 Source(s);   1 Source Group(s); and   22511
Receptor(s)

                with: 0 POINT(s), including
                           0 POINTCAP(s) and   0 POINTHOR(s)
                 and: 7043 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:  21112

 **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) =    45.00 ;  Decay
Coef. =    0.000     ;  Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                                 ;
Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      6.5 MB of RAM.

 **Input Runstream File:          C:\Users\apoll\Desktop\HRAs\Heartland Solar
4.16.25\Heartland BEEST2_2007-2011_ALL.DTA
 **Output Print File:             C:\Users\apoll\Desktop\HRAs\Heartland Solar
4.16.25\Heartland BEEST2_2007-2011_ALL.LST

 **File for Summary of Results:   C:\Users\apoll\Desktop\HRAs\Heartland Solar
4.16.25\Heartland BEEST2_2007-2011_ALL.SUM
 *** AERMOD - VERSION 24142  ***   ***
C:\Users\apoll\Desktop\HARP2\HARP\Heartland\Heartland Hydrogen\Heart ***
04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***       16:30:54

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

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

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

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

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

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

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

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

Surface file: C:\Users\apoll\Desktop\HRAs\mendota-mm5\Mendota_07-11.SFC
Met Version: 21112
Profile file: C:\Users\apoll\Desktop\HRAs\mendota-mm5\Mendota_07-11.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 99005 Upper air station no.: 66666
Name: UNKNOWN Name: UNKNOWN

Year: 2007 Year: 2007

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
- - - -
```

```
1.00    4.60  290.   15.0  280.1    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 07 01 01 01   15.0 1  291.    5.10   279.3   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
 *** AERMOD - VERSION 24142  ***   ***
C:\Users\apoll\Desktop\HARP2\HARP\Heartland\Heartland Hydrogen\Heart ***
04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        16:30:54

                                  PAGE   4
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL  ADJ_U*

                                      *** THE SUMMARY OF MAXIMUM PERIOD ( 43824
HRS) RESULTS ***


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


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

ALL       1ST HIGHEST VALUE IS       2.65357 AT (  732417.41,  4052653.92,    66.01,
   66.01,    0.00)  DC
          2ND HIGHEST VALUE IS       2.38046 AT (  732438.88,  4052701.61,    65.82,
   65.82,    0.00)  DC
          3RD HIGHEST VALUE IS       2.34986 AT (  732440.61,  4052678.71,    65.89,
   65.89,    0.00)  DC
          4TH HIGHEST VALUE IS       2.30246 AT (  732238.50,  4052817.27,    65.82,
   65.82,    0.00)  DC
          5TH HIGHEST VALUE IS       2.29033 AT (  732437.15,  4052724.52,    65.75,
   65.75,    0.00)  DC
          6TH HIGHEST VALUE IS       2.15998 AT (  732442.34,  4052655.80,    65.98,
   65.98,    0.00)  DC
          7TH HIGHEST VALUE IS       2.09704 AT (  732435.42,  4052747.42,    65.68,
   65.68,    0.00)  DC
          8TH HIGHEST VALUE IS       2.03505 AT (  732393.53,  4052628.37,    66.16,
   66.16,    0.00)  DC
          9TH HIGHEST VALUE IS       2.02309 AT (  732238.78,  4052792.27,    65.89,
   65.89,    0.00)  DC
         10TH HIGHEST VALUE IS       1.99958 AT (  732417.98,  4052628.93,    66.11,
```

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

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

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

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

GROUP ID	AVERAGE	CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH	VALUE IS	12.61090c ON 09012024:	AT (732417.41, 4052653.92, 66.01, 66.01, 0.00)	DC	

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

↟ *** AERMOD - VERSION 24142 *** ***
C:\Users\apoll\Desktop\HARP2\HARP\Heartland\Heartland Hydrogen\Heart ***
04/16/25
*** AERMET - VERSION 21112 *** ***
*** 16:30:54

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

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

A Total of 0 Fatal Error Message(s)
A Total of 2574 Warning Message(s)
A Total of 3492 Informational Message(s)

A Total of 43824 Hours Were Processed

```
 A Total of         3492 Calm Hours Identified

 A Total of            0 Missing Hours Identified (  0.00 Percent)


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


    ********   WARNING MESSAGES   ********
 ME W187   14468       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 CN W734      42         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007010218
 CN W734      45         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007010221
 CN W734      48         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007010224
 CN W733      48         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007010224
 CN W732      48         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007010224
 CN W734      51         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007010303
 CN W734      54         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007010306
 CN W733      56         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007010308
 CN W734      63         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007010315
 CN W734      69         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007010321
 CN W733      72         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007010324
 CN W732      72         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007010324
 CN W734     180         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007010812
 CN W734     183         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007010815
 CN W733     184         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007010816
 CN W734     192         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007010824
 CN W733     192         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007010824
 CN W732     192         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007010824
 CN W734     195         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007010903
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 CN W734     198         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007010906
 CN W733     200         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007010908
 CN W734     201         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007010909
 CN W734     204         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007010912
 CN W734     207         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007010915
 CN W733     208         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007010916
 CN W734     210         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007010918
 CN W734     213         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007010921
 CN W733     216         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007010924
 CN W732     216         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007010924
 CN W734     315         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007011403
 CN W734     318         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007011406
 CN W733     320         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007011408
 CN W734     324         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007011412
 CN W734     327         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007011415
 CN W733     328         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007011416
 CN W734     330         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007011418
 CN W734     336         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007011424
 CN W733     336         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007011424
 CN W732     336         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007011424
 CN W734     339         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007011503
 CN W734     351         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007011515
 CN W733     352         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007011516
 CN W734     354         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007011518
 CN W734     357         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007011521
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 CN W733     360         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007011524
 CN W732     360         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007011524
 CN W734     363         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007011603
 CN W734     366         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007011606
 CN W733     368         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007011608
 CN W734     369         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007011609
 CN W734     372         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007011612
 CN W734     375         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007011615
 CN W733     376         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007011616
 CN W734     381         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007011621
 CN W732     384         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007011624
 CN W734     423         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007011815
 CN W734     516         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007012212
 CN W734     519         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007012215
 CN W733     520         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007012216
 CN W734     540         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007012312
 CN W734     549         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007012321
 CN W734     552         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007012324
 CN W733     552         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007012324
 CN W734     555         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007012403
 CN W734     588         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007012512
 CN W734     591         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007012515
 CN W733     592         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007012516
 CN W734     597         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007012521
 CN W734     615         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007012615
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 CN W734     663         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007012815
 CN W734     666         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007012818
 CN W734     753         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007020109
 CN W734     756         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007020112
 CN W733     760         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007020116
 CN W734     771         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007020203
 CN W734     774         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007020206
 CN W733     776         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007020208
 CN W734     777         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007020209
 CN W732     792         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007020224
 CN W734     801         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007020309
 CN W734     804         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007020312
 CN W734     807         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007020315
 CN W733     808         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007020316
 CN W734     810         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007020318
 CN W732     816         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007020324
 CN W734     828         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007020412
 CN W734     831         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007020415
 CN W733     832         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007020416
 CN W734     834         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007020418
 CN W734     837         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007020421
 CN W733     840         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007020424
 CN W732     840         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007020424
 CN W734     876         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007020612
 CN W734     879         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007020615
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 CN W734    1017         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007021209
 CN W734    1140         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007021712
 CN W734    1143         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007021715
 CN W733    1144         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007021716
 CN W734    1146         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007021718
 CN W734    1149         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007021721
 CN W732    1152         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007021724
 CN W734    1308         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007022412
 CN W734    1380         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007022712
 CN W734    1476         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007030312
 CN W734    1788         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007031612
 CN W733    1792         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007031616
 CN W734    1860         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007031912
 CN W734    1863         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007031915
 CN W733    1864         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007031916
 CN W734    2028         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007032612
 CN W734    2310         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007040706
 CN W734    2478         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007041406
 CN W734    2484         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007041412
 CN W734    2607         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007041915
 CN W734    2625         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007042009
 CN W734    2628         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007042012
 CN W733    2632         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007042016
 CN W734    2649         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007042109
 CN W734    2652         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007042112
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 CN W734    2655         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007042115
 CN W733    2656         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007042116
 CN W734    3033         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007050709
 CN W734    3036         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007050712
 CN W733    3040         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007050716
 CN W734    3051         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007050803
 CN W734    3057         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007050809
 CN W734    3060         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007050812
 CN W734    3063         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007050815
 CN W733    3064         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007050816
 CN W732    3072         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007050824
 CN W734    3081         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007050909
 CN W734    3084         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007050912
 CN W733    3088         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007050916
 CN W734    3108         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007051012
 CN W734    3111         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007051015
 CN W733    3112         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007051016
 CN W734    3126         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007051106
 CN W734    3132         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007051112
 CN W733    3136         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007051116
 CN W734    3447         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007052415
 CN W733    3448         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007052416
 CN W734    3450         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007052418
 CN W734    3468         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007052512
 CN W734    3471         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007052515
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 CN W733    3472         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007052516
 CN W734    3492         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007052612
 CN W734    3495         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007052615
 CN W733    3496         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007052616
 CN W734    3498         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007052618
 CN W732    3504         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007052624
 CN W734    3513         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007052709
 CN W734    3516         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007052712
 CN W734    3519         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007052715
 CN W733    3520         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007052716
 CN W734    3540         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007052812
 CN W734    3543         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007052815
 CN W733    3544         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007052816
 CN W734    3558         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007052906
 CN W734    3564         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007052912
 CN W734    3567         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007052915
 CN W733    3568         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007052916
 CN W734    3570         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007052918
 CN W732    3576         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007052924
 CN W734    3588         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007053012
 CN W734    3591         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007053015
 CN W733    3592         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007053016
 CN W734    3594         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007053018
 CN W734    3612         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007053112
 CN W734    3615         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007053115
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 CN W733   3616   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007053116
 CN W734   3633   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007060109
 CN W734   3636   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007060112
 CN W734   3639   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007060115
 CN W733   3640   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007060116
 CN W734   3657   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007060209
 CN W734   3660   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007060212
 CN W734   3663   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007060215
 CN W733   3664   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007060216
 CN W734   3684   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007060312
 CN W733   3688   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007060316
 CN W734   3807   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007060815
 CN W733   3808   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007060816
 CN W734   3810   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007060818
 CN W734   3972   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007061512
 CN W734   3975   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007061515
 CN W733   3976   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007061516
 CN W734   3996   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007061612
 CN W734   4044   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007061812
 CN W734   4047   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007061815
 CN W733   4048   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007061816
 CN W734   4050   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007061818
 CN W734   4059   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007061903
 CN W734   4065   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007061909
 CN W734   4068   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007061912

 CN W734   4071   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007061915
 CN W733   4072   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007061916
 CN W732   4080   AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007061924
 CN W734   4092   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007062012
 CN W734   4095   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007062015
 CN W733   4096   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007062016
 CN W734   4452   AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W734   4455   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007070515
 CN W733   4456   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007070516
 CN W734   4458   AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W734   4473   AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W734   4476   AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W734   4479   AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W733   4480   AVER: 8-hr avg, < 6 hours of data, calms policy used.
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 CN W734   4482   AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W734   4500   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007070712
 CN W734   4503   AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W733   4504   AVER: 8-hr avg, < 6 hours of data, calms policy used.
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 CN W734   4524   AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W734   4527   AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W733   4528   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007070816
 CN W734   4530   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007070818
 CN W732   4536   AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007070824
 CN W734   4539   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007070903
 CN W734   4545   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007070909

 CN W734   4548   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007070912
 CN W733   4552   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007070916
 CN W734   4572   AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W734   4575   AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W733   4576   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007071016
 CN W734   4596   AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W734   4623   AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W734   4668   AVER: 3-hr avg, < 3 hours of data, calms policy used.
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2007071415
 CN W733   4672   AVER: 8-hr avg, < 6 hours of data, calms policy used.
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 CN W734   4740   AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W734   4743   AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W733   4744   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007071716
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 CN W734   4839   AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W733   4840   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007072116
 CN W734   4908   AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W734   4932   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007072512
 CN W734   4935   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007072515
 CN W733   4936   AVER: 8-hr avg, < 6 hours of data, calms policy used.
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 CN W734   4959   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007072615
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2007072616

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 CN W733   4984   AVER: 8-hr avg, < 6 hours of data, calms policy used.
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 CN W733   5080   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007073116
 CN W734   5082   AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W732   5088   AVER: 24-hr avg, < 18 hours of data, calms policy used.
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 CN W734   5091   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007080103
 CN W734   5094   AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W733   5096   AVER: 8-hr avg, < 6 hours of data, calms policy used.
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 CN W734   5097   AVER: 3-hr avg, < 3 hours of data, calms policy used.
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2007080118
 CN W732   5112   AVER: 24-hr avg, < 18 hours of data, calms policy used.
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2007080212
 CN W734   5127   AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W733   5128   AVER: 8-hr avg, < 6 hours of data, calms policy used.
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 CN W734   5130   AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W732   5136   AVER: 24-hr avg, < 18 hours of data, calms policy used.
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2007080315

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 CN W733   5320   AVER: 8-hr avg, < 6 hours of data, calms policy used.
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2007081115
 CN W733   5344   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007081116
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2007081915
 CN W733   5536   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007081916
 CN W734   5556   AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W734   5631   AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W733   5632   AVER: 8-hr avg, < 6 hours of data, calms policy used.
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 CN W734   5700   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007082612
 CN W734   5703   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007082615
 CN W733   5704   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007082616

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2007082824
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2007082916
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 CN W734    6036         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007090912
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 CN W734    6063         AVER: 3-hr avg, < 3 hours of data, calms policy used.
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2007092415
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 CN W733    6424         AVER: 8-hr avg, < 6 hours of data, calms policy used.
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 CN W734    6456         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007092624
 CN W734    6468         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007092712
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2007092812
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2007093018
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2007100812
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 CN W734    6900         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007101512
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2007102903
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2007102906
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2007102908
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2007102912
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 CN W733    7240         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007102916
 CN W732    7248         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007102924
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 CN W734   7380   AVER: 3-hr avg, < 3 hours of data, calms policy used.
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2007110424
 CN W732   7392   AVER: 24-hr avg, < 18 hours of data, calms policy used.
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 CN W733   7456   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007110716
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2007110821
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2007110912
 CN W734   7503   AVER: 3-hr avg, < 3 hours of data, calms policy used.
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2007111109
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2007111221
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2007111512
 CN W734   7647   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007111515
 CN W734   7686   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007111706
 CN W734   7692   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007111712
 CN W733   7696   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007111716
 CN W734   7698   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007111718

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 CN W734    7701         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007111721
 CN W733    7704         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007111724
 CN W732    7704         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007111724
 CN W734    7722         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007111818
 CN W734    7740         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007111912
 CN W734    7788         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007112112
 CN W734    7791         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007112115
 CN W733    7792         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007112116
 CN W734    7794         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007112118
 CN W734    7812         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007112212
 CN W734    7815         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007112215
 CN W733    7816         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007112216
 CN W734    7863         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007112415
 CN W734    7866         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007112418
 CN W734    7869         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007112421
 CN W734    7872         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007112424
 CN W733    7872         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007112424
 CN W732    7872         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007112424
 CN W734    7875         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007112503
 CN W734    7878         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007112506
 CN W733    7880         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007112508
 CN W734    7881         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007112509
 CN W734    7884         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007112512
 CN W734    7887         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007112515
 CN W733    7888         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007112516
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 CN W734    7890         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007112518
 CN W734    7893         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007112521
 CN W734    7896         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007112524
 CN W733    7896         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007112524
 CN W732    7896         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007112524
 CN W734    7926         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007112706
 CN W734    7929         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007112709
 CN W734    7959         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007112815
 CN W733    7960         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007112816
 CN W734    8028         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007120112
 CN W734    8031         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007120115
 CN W733    8032         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007120116
 CN W734    8100         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007120412
 CN W734    8103         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007120415
 CN W733    8104         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007120416
 CN W734    8145         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007120609
 CN W734    8148         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007120612
 CN W734    8292         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007121212
 CN W734    8295         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007121215
 CN W733    8296         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007121216
 CN W734    8340         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007121412
 CN W734    8343         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007121415
 CN W733    8344         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007121416
 CN W734    8352         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007121424
 CN W734    8355         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007121503
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 CN W734    8358         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007121506
 CN W733    8360         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007121508
 CN W734    8367         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007121515
 CN W734    8370         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007121518
 CN W734    8373         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007121521
 CN W734    8376         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007121524
 CN W733    8376         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007121524
 CN W732    8376         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007121524
 CN W734    8379         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007121603
 CN W734    8382         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007121606
 CN W733    8384         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007121608
 CN W734    8385         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007121609
 CN W734    8388         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007121612
 CN W732    8400         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007121624
 CN W734    8532         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007122212
 CN W734    8535         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007122215
 CN W733    8536         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007122216
 CN W734    8562         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007122318
 CN W734    8661         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007122721
 CN W734    8682         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007122818
 CN W734    8688         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007122824
 CN W733    8688         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007122824
 CN W734    8691         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007122903
 CN W734    8694         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007122906
 CN W733    8696         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007122908
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2007122921
 CN W734    8712         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007122924
 CN W733    8712         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2007122924
 CN W732    8712         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2007122924
 CN W734    8715         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007123003
 CN W734    8751         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2007123115
 CN W734    8931         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008010803
 CN W734    8964         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008010912
 CN W734    8991         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008011015
 CN W734    8994         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008011018
 CN W734    8997         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008011021
 CN W734    9000         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008011024
 CN W733    9000         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008011024
 CN W734    9030         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008011206
 CN W734    9081         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008011409
 CN W734    9084         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008011412
 CN W734    9087         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008011415
 CN W733    9088         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008011416
 CN W734    9159         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008011715
 CN W734    9180         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008011812
 CN W734    9183         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008011815
 CN W733    9184         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008011816
 CN W734    9186         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008011818
 CN W734    9189         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008011821
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2008011824
 CN W732   9192   AVER: 24-hr avg, < 18 hours of data, calms policy used.
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 CN W734   9207   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008011915
 CN W734   9213   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008011921
 CN W734   9216   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008011924
 CN W733   9216   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008011924
 CN W732   9216   AVER: 24-hr avg, < 18 hours of data, calms policy used.
2008011924
 CN W734   9219   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008012003
 CN W734   9222   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008012006
 CN W733   9224   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008012008
 CN W734   9225   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008012009
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2008012106
 CN W734   9276   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008012212
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2008012312
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2008012318
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2008012912
 CN W733   9448   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008012916
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 CN W733   9856   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008021516
 CN W734   9876   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008021612
 CN W734   9879   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008021615
 CN W733   9880   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008021616
 CN W734   9903   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008021715
 CN W733   9904   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008021716

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2008021924
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2008022006
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2008022309
 CN W734   10116         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008022612
 CN W734   10119         AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W733   10192         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008022916
 CN W734   10194         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008022918
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2008030309
 CN W734   10341         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008030621
 CN W734   10428         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008031012
 CN W734   10431         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008031015
 CN W733   10432         AVER: 8-hr avg, < 6 hours of data, calms policy used.
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 CN W734   10542         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008031506
 CN W733   10544         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008031508
 CN W734   10545         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008031509
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2008040112
 CN W734   10959         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008040115
 CN W733   10960         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008040116
 CN W734   10992         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008040224
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 CN W733   10992         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008040224
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2008040303
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 CN W734   11217         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008041209
 CN W734   11244         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008041312
 CN W734   11247         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008041315
 CN W733   11248         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008041316
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2008042712
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2008050509
 CN W734   11772         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008050512
 CN W734   11775         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008050515
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 CN W733   11776   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008050516
 CN W732   11784   AVER: 24-hr avg, < 18 hours of data, calms policy used.
2008050524
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2008050612
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 CN W733   12232   AVER: 8-hr avg, < 6 hours of data, calms policy used.
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 CN W734   12234   AVER: 3-hr avg, < 3 hours of data, calms policy used.
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2008052716
 CN W734   12321   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008052809
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2008052812
 CN W734   12327   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008052815

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 CN W733   12328         AVER: 8-hr avg, < 6 hours of data, calms policy used.
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 CN W733   12712         AVER: 8-hr avg, < 6 hours of data, calms policy used.
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 CN W734   12723         AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W734   12729         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008061409
 CN W734   12732         AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W734   12735         AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W733   12736         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008061416
 CN W732   12744         AVER: 24-hr avg, < 18 hours of data, calms policy used.
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 CN W734   12903         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008062115
 CN W734   13023         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008062615
 CN W734   13041         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008062709
 CN W734   13044         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008062712
 CN W733   13048         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008062716
 CN W734   13065         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008062809
 CN W734   13068         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008062812
 CN W733   13072         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008062816
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 CN W734   13086         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008062906
 CN W734   13089         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008062909
 CN W734   13092         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008062912
 CN W734   13095         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008062915
 CN W733   13096         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008062916
 CN W732   13104         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2008062924
 CN W734   13116         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008063012
 CN W734   13119         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008063015
 CN W733   13120         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008063016
 CN W734   13263         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008070615
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2008070712
 CN W733   13288         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008070716
 CN W734   13308         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008070812
 CN W734   13311         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008070815
 CN W733   13312         AVER: 8-hr avg, < 6 hours of data, calms policy used.
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2008070912
 CN W734   13335         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008070915
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2008071012
 CN W734   13359         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008071015
 CN W734   13380         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008071112
 CN W734   13383         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008071115
 CN W733   13384         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008071116
 CN W734   13386         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008071118
 CN W732   13392         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2008071124
 CN W734   13398         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008071206
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2008071215
 CN W733   13408         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008071216
 CN W734   13410         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008071218
 CN W732   13416         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2008071224
 CN W734   13428         AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W734   13431         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008071315
 CN W733   13432         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008071316
 CN W734   13449         AVER: 3-hr avg, < 3 hours of data, calms policy used.
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2008071412
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 CN W733   13456         AVER: 8-hr avg, < 6 hours of data, calms policy used.
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 CN W734   13500         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008071612
 CN W734   13503         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008071615
 CN W733   13504         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008071616
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2008071915
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2008071916
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2008072003
 CN W734   13596         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008072012
 CN W734   13599         AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W733   13600         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008072016
 CN W734   13764         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008072712
 CN W734   13767         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008072715
 CN W733   13768         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008072716
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 CN W734   13839   AVER: 3-hr avg, < 3 hours of data, calms policy used.
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 CN W733   13840   AVER: 8-hr avg, < 6 hours of data, calms policy used.
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2008073112
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2008081315
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2008081412
 CN W734   14199   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008081415

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2008081618
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2008081624
 CN W732   14256         AVER: 24-hr avg, < 18 hours of data, calms policy used.
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 CN W733   14416         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008082316
 CN W734   14418         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008082318
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 CN W732   14424   AVER: 24-hr avg, < 18 hours of data, calms policy used.
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 CN W733   14440   AVER: 8-hr avg, < 6 hours of data, calms policy used.
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2008090715

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2008091918
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2008091924

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2008092412
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2008100316
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2008102415
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2008102521
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2008102524
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2008102612
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2008102924
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2008111612
 CN W733   16456         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008111616
 CN W734   16470         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008111706
 CN W733   16472         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008111708
```

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 CN W734   16473         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008111709
 CN W734   16476         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008111712
 CN W734   16479         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008111715
 CN W733   16480         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008111716
 CN W734   16482         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008111718
 CN W734   16485         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008111721
 CN W733   16488         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008111724
 CN W732   16488         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2008111724
 CN W734   16491         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008111803
 CN W734   16506         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008111818
 CN W734   16509         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008111821
 CN W733   16512         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008111824
 CN W734   16620         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008112312
 CN W734   16623         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008112315
 CN W733   16624         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008112316
 CN W734   16626         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008112318
 CN W734   16644         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008112412
 CN W734   16671         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008112515
 CN W734   16674         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008112518
 CN W734   16767         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008112915
 CN W733   16768         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008112916
 CN W734   16770         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008112918
 CN W734   16773         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008112921
 CN W734   16908         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008120512
 CN W734   16911         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008120515
```

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 CN W733   16912         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008120516
 CN W734   16917         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008120521
 CN W734   16920         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008120524
 CN W733   16920         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008120524
 CN W732   16920         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2008120524
 CN W734   16932         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008120612
 CN W734   16935         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008120615
 CN W733   16936         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008120616
 CN W734   16938         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008120618
 CN W734   16941         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008120621
 CN W734   16944         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008120624
 CN W733   16944         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008120624
 CN W732   16944         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2008120624
 CN W734   16947         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008120703
 CN W733   16952         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008120708
 CN W734   17004         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008120912
 CN W734   17007         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008120915
 CN W733   17008         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008120916
 CN W734   17010         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008120918
 CN W734   17013         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008120921
 CN W733   17016         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008120924
 CN W732   17016         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2008120924
 CN W734   17025         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008121009
 CN W734   17028         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008121012
 CN W734   17031         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008121015
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 CN W733   17032         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008121016
 CN W734   17034         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008121018
 CN W734   17037         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008121021
 CN W734   17040         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008121024
 CN W733   17040         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008121024
 CN W732   17040         AVER: 24-hr avg, < 18 hours of data, calms policy used.
2008121024
 CN W734   17061         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008121121
 CN W734   17175         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008121615
 CN W734   17220         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008121812
 CN W734   17223         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008121815
 CN W733   17224         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008121816
 CN W734   17283         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008122103
 CN W734   17286         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008122106
 CN W733   17288         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008122108
 CN W734   17313         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008122209
 CN W734   17316         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008122212
 CN W734   17340         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008122312
 CN W734   17343         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008122315
 CN W733   17344         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008122316
 CN W734   17436         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008122712
 CN W734   17439         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008122715
 CN W733   17440         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008122716
 CN W734   17442         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008122718
 CN W734   17445         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008122721
 CN W734   17448         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008122724
```

 CN W733   17448   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2008122724
 CN W732   17448   AVER: 24-hr avg, < 18 hours of data, calms policy used.
2008122724
 CN W734   17487   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2008122915
 CN W734   17568   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009010124
 CN W734   17571   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009010203
 CN W734   17643   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009010503
 CN W734   17646   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009010506
 CN W733   17648   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2009010508
 CN W734   17655   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009010515
 CN W734   17691   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009010703
 CN W734   17724   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009010812
 CN W734   17769   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011009
 CN W734   17772   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011012
 CN W734   17775   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011015
 CN W733   17776   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2009011016
 CN W734   17778   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011018
 CN W734   17781   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011021
 CN W734   17784   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011024
 CN W733   17784   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2009011024
 CN W732   17784   AVER: 24-hr avg, < 18 hours of data, calms policy used.
2009011024
 CN W734   17787   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011103
 CN W734   17790   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011106
 CN W733   17792   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2009011108
 CN W734   17793   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011109
 CN W732   17808   AVER: 24-hr avg, < 18 hours of data, calms policy used.
2009011124

 CN W734   17820   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011212
 CN W734   17823   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011215
 CN W733   17824   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2009011216
 CN W734   17826   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011218
 CN W734   17829   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011221
 CN W733   17832   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2009011224
 CN W732   17832   AVER: 24-hr avg, < 18 hours of data, calms policy used.
2009011224
 CN W734   17844   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011312
 CN W734   17847   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011315
 CN W733   17848   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2009011316
 CN W734   17871   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011415
 CN W733   17872   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2009011416
 CN W734   17874   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011418
 CN W734   17877   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011421
 CN W734   17880   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011424
 CN W733   17880   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2009011424
 CN W732   17880   AVER: 24-hr avg, < 18 hours of data, calms policy used.
2009011424
 CN W734   17883   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011503
 CN W734   17892   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011512
 CN W734   17895   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011515
 CN W733   17896   AVER: 8-hr avg, < 6 hours of data, calms policy used.
2009011516
 CN W734   17898   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011518
 CN W734   17901   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011521
 CN W732   17904   AVER: 24-hr avg, < 18 hours of data, calms policy used.
2009011524
 CN W734   17919   AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011615

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 CN W734   17928         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011624
 CN W734   17949         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011721
 CN W734   17952         AVER: 3-hr avg, < 3 hours of data, calms policy used.
2009011724
 CN W733   17952         AVER: 8-hr avg, < 6 hours of data, calms policy used.
2009011724
 More Than 999 Warning Messages Found.  See ERRORFIL Output for the Remainder.
```

```
* AERMOD (24142 ): C:\Users\apoll\Desktop\HARP2\HARP\Heartland\Heartland
Hydrogen\Heart     04/16/25
* AERMET ( 21112):
      16:30:54
* MODELING OPTIONS USED:   RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL
ADJ_U*
*         PLOT FILE OF PERIOD VALUES AVERAGED ACROSS   0 YEARS FOR SOURCE GROUP: ALL

*         FOR A TOTAL OF 22511 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)


*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP
     NUM HRS   NET ID
* ____________  ____________  ____________   ______   ______   ______  ______
________  ________  ________
  733473.07000 4060491.37000       0.26723    58.82    58.82     0.00  PERIOD  ALL
    00043824
  733473.53000 4060466.46000       0.28727    58.82    58.82     0.00  PERIOD  ALL
    00043824
  733473.99000 4060441.55000       0.31239    58.82    58.82     0.00  PERIOD  ALL
    00043824
  733474.46000 4060416.64000       0.34513    58.82    58.82     0.00  PERIOD  ALL
    00043824
  733474.92000 4060391.73000       0.38823    58.82    58.82     0.00  PERIOD  ALL
    00043824
  733475.38000 4060366.82000       0.44319    58.82    58.82     0.00  PERIOD  ALL
    00043824
  733475.84000 4060341.91000       0.50904    58.82    58.82     0.00  PERIOD  ALL
    00043824
  733476.31000 4060317.00000       0.57936    58.82    58.82     0.00  PERIOD  ALL
    00043824
  733476.77000 4060292.09000       0.64382    58.82    58.82     0.00  PERIOD  ALL
    00043824
  733477.23000 4060267.18000       0.69527    58.83    58.83     0.00  PERIOD  ALL
    00043824
  733477.70000 4060242.27000       0.73329    58.83    58.83     0.00  PERIOD  ALL
    00043824
  733478.16000 4060217.36000       0.76161    58.83    58.83     0.00  PERIOD  ALL
    00043824
  733478.62000 4060192.45000       0.78421    58.83    58.83     0.00  PERIOD  ALL
    00043824
  733479.09000 4060167.54000       0.80397    58.83    58.83     0.00  PERIOD  ALL
    00043824
  733479.55000 4060142.63000       0.82266    58.83    58.83     0.00  PERIOD  ALL
    00043824
  733480.01000 4060117.72000       0.84100    58.83    58.83     0.00  PERIOD  ALL
    00043824
  733480.48000 4060092.81000       0.85921    58.83    58.83     0.00  PERIOD  ALL
    00043824
```

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733480.94000 4060067.90000       0.87731    58.83    58.83     0.00  PERIOD  ALL
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  00043824
733481.87000 4060018.08000       0.91207    58.83    58.83     0.00  PERIOD  ALL
  00043824
733482.33000 4059993.17000       0.92824    58.83    58.83     0.00  PERIOD  ALL
  00043824
733482.79000 4059968.26000       0.94337    58.83    58.83     0.00  PERIOD  ALL
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  00043824
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733484.64000 4059868.62000       0.99419    58.80    58.80     0.00  PERIOD  ALL
  00043824
733485.11000 4059843.71000       1.00524    58.80    58.80     0.00  PERIOD  ALL
  00043824
733485.57000 4059818.80000       1.01595    58.79    58.79     0.00  PERIOD  ALL
  00043824
733486.03000 4059793.89000       1.02646    58.79    58.79     0.00  PERIOD  ALL
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733486.50000 4059768.98000       1.03694    58.83    58.83     0.00  PERIOD  ALL
  00043824
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  00043824
733487.42000 4059719.16000       1.05721    58.84    58.84     0.00  PERIOD  ALL
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733488.35000 4059669.34000       1.07664    58.85    58.85     0.00  PERIOD  ALL
  00043824
733488.81000 4059644.43000       1.08594    58.84    58.84     0.00  PERIOD  ALL
  00043824
733489.28000 4059619.52000       1.09496    58.84    58.84     0.00  PERIOD  ALL
  00043824
733489.74000 4059594.61000       1.10362    58.81    58.81     0.00  PERIOD  ALL
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  00043824
733490.67000 4059544.79000       1.12013    58.76    58.76     0.00  PERIOD  ALL
  00043824
733491.13000 4059519.88000       1.12814    58.76    58.76     0.00  PERIOD  ALL
  00043824
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  00043824
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  00043824
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733493.44000 4059395.33000       1.16477    58.76    58.76     0.00  PERIOD  ALL
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733493.91000 4059370.42000       1.17137    58.76    58.76     0.00  PERIOD  ALL
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733494.37000 4059345.51000       1.17777    58.76    58.76     0.00  PERIOD  ALL
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733494.83000 4059320.60000       1.18395    58.76    58.76     0.00  PERIOD  ALL
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733495.76000 4059270.78000       1.19558    58.76    58.76     0.00  PERIOD  ALL
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733496.22000 4059245.87000       1.20109    58.76    58.76     0.00  PERIOD  ALL
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733496.69000 4059220.96000       1.20636    58.76    58.76     0.00  PERIOD  ALL
  00043824
733497.15000 4059196.05000       1.21144    58.76    58.76     0.00  PERIOD  ALL
  00043824
733497.61000 4059171.14000       1.21633    58.76    58.76     0.00  PERIOD  ALL
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733498.08000 4059146.23000       1.22099    58.76    58.76     0.00  PERIOD  ALL
  00043824
733498.54000 4059121.32000       1.22552    58.77    58.77     0.00  PERIOD  ALL
  00043824
733499.00000 4059096.41000       1.22982    58.77    58.77     0.00  PERIOD  ALL
  00043824
733499.46000 4059071.50000       1.23393    58.77    58.77     0.00  PERIOD  ALL
  00043824
733499.93000 4059046.59000       1.23781    58.77    58.77     0.00  PERIOD  ALL
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733500.39000 4059021.68000       1.24155    58.77    58.77     0.00  PERIOD  ALL
  00043824
733500.85000 4058996.77000       1.24512    58.77    58.77     0.00  PERIOD  ALL
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733501.32000 4058971.86000       1.24849    58.77    58.77     0.00  PERIOD  ALL
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733501.78000 4058946.95000       1.25173    58.77    58.77     0.00  PERIOD  ALL
  00043824
733502.24000 4058922.04000       1.25483    58.77    58.77     0.00  PERIOD  ALL
  00043824
733502.71000 4058897.13000       1.25780    58.78    58.78     0.00  PERIOD  ALL
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733503.17000 4058872.22000       1.26066    58.79    58.79     0.00  PERIOD  ALL
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733503.63000 4058847.31000       1.26366    58.86    58.86     0.00  PERIOD  ALL
  00043824
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733505.02000 4058772.58000       1.27135    58.97    58.97     0.00  PERIOD  ALL
  00043824
733505.49000 4058747.67000       1.27350    58.98    58.98     0.00  PERIOD  ALL
  00043824
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* AERMOD (24142 ): C:\Users\apoll\Desktop\HARP2\HARP\Heartland\Heartland
Hydrogen\Heart     04/16/25
* AERMET ( 21112):
       16:30:54
* MODELING OPTIONS USED:   RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL
ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  1-HR VALUES FOR SOURCE GROUP: ALL
*         FOR A TOTAL OF 22511 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)


*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP
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Hydrogen\Heart     04/16/25
* AERMET ( 21112):
       16:30:54
* MODELING OPTIONS USED:   RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL
ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  3-HR VALUES FOR SOURCE GROUP: ALL
*         FOR A TOTAL OF 22511 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)


*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP
      RANK     NET ID   DATE(CONC)
* ____________  ____________  ____________   ______   ______   ______  ______
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Hydrogen\Heart     04/16/25
* AERMET ( 21112):
       16:30:54
* MODELING OPTIONS USED:   RegDFAULT  CONC  ELEV  NODRYDPLT  NOWETDPLT  RURAL
ADJ_U*
*         PLOT FILE OF  HIGH   1ST HIGH  8-HR VALUES FOR SOURCE GROUP: ALL
*         FOR A TOTAL OF 22511 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)


*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE     GRP
      RANK     NET ID   DATE(CONC)
* ______________  ______________  ______________   _______   _______   _______  _______
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1ST		7121224					
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1ST		7121224					
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1ST		7121224					
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731275.34000	4053074.03000	5.25520	66.94	66.94	0.00	8-HR	ALL
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731275.85000	4053049.29000	5.28035	67.01	67.01	0.00	8-HR	ALL
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731075.58000 4058845.78000       9.61514    65.64    65.64     0.00    8-HR  ALL
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* AERMOD (24142 ): C:\Users\apoll\Desktop\HARP2\HARP\Heartland\Heartland
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Hydrogen\Heart 04/16/25
* AERMET (21112):
16:30:54
* MODELING OPTIONS USED: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT RURAL
ADJ_U*
* PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL
* FOR A TOTAL OF 22511 RECEPTORS.
* FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A5,5X,A8,2X,I8)

* X	Y	AVERAGE CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP
RANK	NET ID	DATE(CONC)					
733473.07000	4060491.37000	2.69026	58.82	58.82	0.00	24-HR	ALL
1ST		11122024					
733473.53000	4060466.46000	2.88107	58.82	58.82	0.00	24-HR	ALL
1ST		11122024					
733473.99000	4060441.55000	3.09707	58.82	58.82	0.00	24-HR	ALL
1ST		11122024					
733474.46000	4060416.64000	3.34232	58.82	58.82	0.00	24-HR	ALL
1ST		11122024					
733474.92000	4060391.73000	3.60973	58.82	58.82	0.00	24-HR	ALL
1ST		7121224					
733475.38000	4060366.82000	3.94051	58.82	58.82	0.00	24-HR	ALL
1ST		7121224					
733475.84000	4060341.91000	3.78156	58.82	58.82	0.00	24-HR	ALL
1ST		11122024					
733476.31000	4060317.00000	3.86244	58.82	58.82	0.00	24-HR	ALL
1ST		11122024					
733476.77000	4060292.09000	3.94620	58.82	58.82	0.00	24-HR	ALL
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733477.23000	4060267.18000	4.02148	58.83	58.83	0.00	24-HR	ALL
1ST		11122024					
733477.70000	4060242.27000	4.07984	58.83	58.83	0.00	24-HR	ALL
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733478.16000	4060217.36000	4.11609	58.83	58.83	0.00	24-HR	ALL
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733478.62000	4060192.45000	4.13517	58.83	58.83	0.00	24-HR	ALL
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733479.09000	4060167.54000	4.15228	58.83	58.83	0.00	24-HR	ALL
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733479.55000	4060142.63000	4.18143	58.83	58.83	0.00	24-HR	ALL
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733480.01000	4060117.72000	4.22518	58.83	58.83	0.00	24-HR	ALL
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733480.94000	4060067.90000	4.32368	58.83	58.83	0.00	24-HR	ALL
1ST		11122024					

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Health Risk Assessment

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Heartland Solar Project HRA
Construction Start Date	12/1/2026
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.90
Precipitation (days)	21.2
Location	36.648752402721996, -120.39648375951309
County	Fresno
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2525
EDFZ	5
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific 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	3.00	1000sqft	0.07	3,000	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Water	W-1	Use Reclaimed Non-Potable Water

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.	4.04	3.72	54.5	118	0.19	1.52	3.75	5.28	1.40	0.73	1.78	—	19,768	19,768	0.81	0.18	0.14	19,843
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.58	4.24	63.9	146	0.23	1.71	5.43	7.14	1.57	1.20	2.12	—	24,036	24,036	0.98	0.23	< 0.005	24,129
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.08	1.00	17.4	50.8	0.08	0.40	2.07	2.41	0.37	0.29	0.62	—	7,980	7,980	0.33	0.08	0.03	8,011
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.20	0.18	3.17	9.27	0.01	0.07	0.38	0.44	0.07	0.05	0.11	—	1,321	1,321	0.05	0.01	< 0.005	1,326

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	2.06	2.04	34.4	110	0.16	0.56	3.72	4.28	0.53	0.73	1.26	—	16,803	16,803	0.69	0.16	0.14	16,869
2028	4.04	3.72	54.5	118	0.19	1.52	3.75	5.28	1.40	0.38	1.78	—	19,768	19,768	0.81	0.18	0.10	19,843
2050	0.10	0.08	1.04	1.81	< 0.005	0.01	1.68	1.69	0.01	0.17	0.18	—	286	286	0.01	0.01	< 0.005	291
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.22	1.22	23.2	59.2	0.10	0.72	3.96	4.69	0.65	1.20	1.85	—	9,862	9,862	0.40	0.09	< 0.005	9,898
2027	2.05	2.03	34.4	110	0.16	0.56	3.72	4.28	0.53	0.73	1.26	—	16,806	16,806	0.69	0.16	< 0.005	16,873
2028	4.58	4.24	63.9	146	0.23	1.71	5.43	7.14	1.57	0.55	2.12	—	24,036	24,036	0.98	0.23	< 0.005	24,129
2050	0.10	0.08	1.08	1.82	< 0.005	0.01	1.68	1.69	0.01	0.17	0.18	—	288	288	0.01	0.01	< 0.005	292
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.07	0.07	1.37	3.10	0.01	0.04	0.21	0.25	0.04	0.06	0.09	—	522	522	0.02	< 0.005	< 0.005	524
2027	0.99	0.98	17.4	50.8	0.08	0.35	2.07	2.41	0.33	0.29	0.62	—	7,980	7,980	0.33	0.08	0.03	8,011
2028	1.08	1.00	14.9	34.1	0.05	0.40	1.10	1.50	0.37	0.11	0.48	—	5,608	5,608	0.23	0.05	0.01	5,630
2050	0.06	0.05	0.57	0.98	< 0.005	< 0.005	0.86	0.86	< 0.005	0.09	0.09	—	156	156	0.01	0.01	< 0.005	158
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.01	0.01	0.25	0.57	< 0.005	0.01	0.04	0.05	0.01	0.01	0.02	—	86.4	86.4	< 0.005	< 0.005	< 0.005	86.7
2027	0.18	0.18	3.17	9.27	0.01	0.06	0.38	0.44	0.06	0.05	0.11	—	1,321	1,321	0.05	0.01	< 0.005	1,326
2028	0.20	0.18	2.72	6.22	0.01	0.07	0.20	0.27	0.07	0.02	0.09	—	929	929	0.04	0.01	< 0.005	932
2050	0.01	0.01	0.10	0.18	< 0.005	< 0.005	0.16	0.16	< 0.005	0.02	0.02	—	25.8	25.8	< 0.005	< 0.005	< 0.005	26.1

2.3. Construction Emissions by Year, Mitigated

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

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

2027	2.06	2.04	34.4	110	0.16	0.56	3.72	4.28	0.53	0.73	1.26	—	16,803	16,803	0.69	0.16	0.14	16,869
2028	4.04	3.72	54.5	118	0.19	1.52	3.75	5.28	1.40	0.38	1.78	—	19,768	19,768	0.81	0.18	0.10	19,843
2050	0.10	0.08	1.04	1.81	< 0.005	0.01	1.68	1.69	0.01	0.17	0.18	—	286	286	0.01	0.01	< 0.005	291
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.22	1.22	23.2	59.2	0.10	0.72	3.96	4.69	0.65	1.20	1.85	—	9,862	9,862	0.40	0.09	< 0.005	9,898
2027	2.05	2.03	34.4	110	0.16	0.56	3.72	4.28	0.53	0.73	1.26	—	16,806	16,806	0.69	0.16	< 0.005	16,873
2028	4.58	4.24	63.9	146	0.23	1.71	5.43	7.14	1.57	0.55	2.12	—	24,036	24,036	0.98	0.23	< 0.005	24,129
2050	0.10	0.08	1.08	1.82	< 0.005	0.01	1.68	1.69	0.01	0.17	0.18	—	288	288	0.01	0.01	< 0.005	292
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.07	0.07	1.37	3.10	0.01	0.04	0.21	0.25	0.04	0.06	0.09	—	522	522	0.02	< 0.005	< 0.005	524
2027	0.99	0.98	17.4	50.8	0.08	0.35	2.07	2.41	0.33	0.29	0.62	—	7,980	7,980	0.33	0.08	0.03	8,011
2028	1.08	1.00	14.9	34.1	0.05	0.40	1.10	1.50	0.37	0.11	0.48	—	5,608	5,608	0.23	0.05	0.01	5,630
2050	0.06	0.05	0.57	0.98	< 0.005	< 0.005	0.86	0.86	< 0.005	0.09	0.09	—	156	156	0.01	0.01	< 0.005	158
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.01	0.01	0.25	0.57	< 0.005	0.01	0.04	0.05	0.01	0.01	0.02	—	86.4	86.4	< 0.005	< 0.005	< 0.005	86.7
2027	0.18	0.18	3.17	9.27	0.01	0.06	0.38	0.44	0.06	0.05	0.11	—	1,321	1,321	0.05	0.01	< 0.005	1,326
2028	0.20	0.18	2.72	6.22	0.01	0.07	0.20	0.27	0.07	0.02	0.09	—	929	929	0.04	0.01	< 0.005	932
2050	0.01	0.01	0.10	0.18	< 0.005	< 0.005	0.16	0.16	< 0.005	0.02	0.02	—	25.8	25.8	< 0.005	< 0.005	< 0.005	26.1

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.16	0.15	0.11	0.27	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	2.00	81.4	83.4	1.17	0.01	0.81	116
Mit.	0.16	0.15	0.11	0.27	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	2.00	77.2	79.2	1.16	0.01	0.81	112

% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	5%	5%	—	—	—	4%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.20	0.19	0.13	0.45	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	2.00	85.6	87.6	1.17	0.01	0.78	121
Mit.	0.20	0.19	0.13	0.45	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	2.00	81.4	83.4	1.17	0.01	0.78	116
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	5%	5%	—	—	—	4%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.13	0.12	0.08	0.22	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	2.00	74.0	76.0	1.16	0.01	0.79	108
Mit.	0.13	0.12	0.08	0.22	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	2.00	69.8	71.8	1.16	0.01	0.79	104
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	6%	6%	—	—	—	4%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.02	0.02	0.02	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.33	12.3	12.6	0.19	< 0.005	0.13	17.9
Mit.	0.02	0.02	0.02	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.33	11.6	11.9	0.19	< 0.005	0.13	17.2
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	6%	6%	< 0.5%	1%	—	4%

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	0.09	0.09	0.11	0.27	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	25.3	25.3	0.01	< 0.005	0.03	26.8
Area	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	40.0	40.0	0.01	< 0.005	—	40.4

Water	—	—	—	—	—	—	—	—	—	—	—	0.00	16.1	16.1	0.95	< 0.005	—	41.0
Waste	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	0.16	0.15	0.11	0.27	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	2.00	81.4	83.4	1.17	0.01	0.81	116
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.13	0.12	0.13	0.45	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	29.5	29.5	0.01	0.01	< 0.005	31.4
Area	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	40.0	40.0	0.01	< 0.005	—	40.4
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	16.1	16.1	0.95	< 0.005	—	41.0
Waste	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	0.20	0.19	0.13	0.45	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	2.00	85.6	87.6	1.17	0.01	0.78	121
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.06	0.06	0.08	0.22	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	17.8	17.8	< 0.005	< 0.005	0.01	19.0
Area	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	40.0	40.0	0.01	< 0.005	—	40.4
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	16.1	16.1	0.95	< 0.005	—	41.0
Waste	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	0.13	0.12	0.08	0.22	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	2.00	74.0	76.0	1.16	0.01	0.79	108
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.01	0.01	0.02	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.95	2.95	< 0.005	< 0.005	< 0.005	3.14
Area	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	6.63	6.63	< 0.005	< 0.005	—	6.69
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	2.67	2.67	0.16	< 0.005	—	6.79
Waste	—	—	—	—	—	—	—	—	—	—	—	0.33	0.00	0.33	0.03	0.00	—	1.16

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Total	0.02	0.02	0.02	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.33	12.3	12.6	0.19	< 0.005	0.13	17.9

2.6. Operations Emissions by Sector, Mitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.09	0.09	0.11	0.27	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	25.3	25.3	0.01	< 0.005	0.03	26.8
Area	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	40.0	40.0	0.01	< 0.005	—	40.4
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	11.9	11.9	0.95	< 0.005	—	36.8
Waste	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	0.16	0.15	0.11	0.27	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	2.00	77.2	79.2	1.16	0.01	0.81	112
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.13	0.12	0.13	0.45	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	29.5	29.5	0.01	0.01	< 0.005	31.4
Area	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	40.0	40.0	0.01	< 0.005	—	40.4
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	11.9	11.9	0.95	< 0.005	—	36.8
Waste	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	0.20	0.19	0.13	0.45	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	2.00	81.4	83.4	1.17	0.01	0.78	116
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.06	0.06	0.08	0.22	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	17.8	17.8	< 0.005	< 0.005	0.01	19.0
Area	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	40.0	40.0	0.01	< 0.005	—	40.4
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	11.9	11.9	0.95	< 0.005	—	36.8
Waste	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	0.13	0.12	0.08	0.22	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	2.00	69.8	71.8	1.16	0.01	0.79	104
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.01	0.01	0.02	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.95	2.95	< 0.005	< 0.005	< 0.005	3.14
Area	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	6.63	6.63	< 0.005	< 0.005	—	6.69
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	1.98	1.98	0.16	< 0.005	—	6.09
Waste	—	—	—	—	—	—	—	—	—	—	—	0.33	0.00	0.33	0.03	0.00	—	1.16
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Total	0.02	0.02	0.02	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.33	11.6	11.9	0.19	< 0.005	0.13	17.2

3. Construction Emissions Details

3.1. Decommissioning (2050) - 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	0.07	0.06	0.59	1.43	< 0.005	0.01	—	0.01	0.01	—	0.01	—	218	218	0.01	< 0.005	—	218
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.02	0.01	0.25	0.21	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	38.0	38.0	< 0.005	0.01	< 0.005	39.9

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.59	1.43	< 0.005	0.01	—	0.01	0.01	—	0.01	—	218	218	0.01	< 0.005	—	218
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.02	0.01	0.27	0.22	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	38.9	38.9	< 0.005	0.01	< 0.005	40.7
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.32	0.78	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	118	118	< 0.005	< 0.005	—	118
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.14	0.12	< 0.005	< 0.005	0.85	0.85	< 0.005	0.09	0.09	—	20.8	20.8	< 0.005	< 0.005	< 0.005	21.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	19.5	19.5	< 0.005	< 0.005	—	19.6
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.16	0.16	< 0.005	0.02	0.02	—	3.45	3.45	< 0.005	< 0.005	< 0.005	3.61
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	0.01	< 0.005	0.09	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.9	13.9	< 0.005	< 0.005	< 0.005	14.6

Hauling	0.01	0.01	0.11	0.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	16.9	16.9	< 0.005	< 0.005	< 0.005	17.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	< 0.005	0.09	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.2	14.2	< 0.005	< 0.005	< 0.005	14.9
Hauling	0.01	0.01	0.12	0.10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	17.3	17.3	< 0.005	< 0.005	< 0.005	18.1
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	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.59	7.59	< 0.005	< 0.005	< 0.005	7.97
Hauling	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.25	9.25	< 0.005	< 0.005	< 0.005	9.70
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	—	1.26	1.26	< 0.005	< 0.005	< 0.005	1.32
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.53	1.53	< 0.005	< 0.005	< 0.005	1.61

3.2. Decommissioning (2050) - 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	0.07	0.06	0.59	1.43	< 0.005	0.01	—	0.01	0.01	—	0.01	—	218	218	0.01	< 0.005	—	218
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.02	0.01	0.25	0.21	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	38.0	38.0	< 0.005	0.01	< 0.005	39.9

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.59	1.43	< 0.005	0.01	—	0.01	0.01	—	0.01	—	218	218	0.01	< 0.005	—	218
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.02	0.01	0.27	0.22	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	38.9	38.9	< 0.005	0.01	< 0.005	40.7
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.32	0.78	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	118	118	< 0.005	< 0.005	—	118
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.14	0.12	< 0.005	< 0.005	0.85	0.85	< 0.005	0.09	0.09	—	20.8	20.8	< 0.005	< 0.005	< 0.005	21.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	19.5	19.5	< 0.005	< 0.005	—	19.6
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.16	0.16	< 0.005	0.02	0.02	—	3.45	3.45	< 0.005	< 0.005	< 0.005	3.61
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	0.01	< 0.005	0.09	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.9	13.9	< 0.005	< 0.005	< 0.005	14.6

Hauling	0.01	0.01	0.11	0.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	16.9	16.9	< 0.005	< 0.005	< 0.005	17.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	< 0.005	0.09	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.2	14.2	< 0.005	< 0.005	< 0.005	14.9
Hauling	0.01	0.01	0.12	0.10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	17.3	17.3	< 0.005	< 0.005	< 0.005	18.1
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	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.59	7.59	< 0.005	< 0.005	< 0.005	7.97
Hauling	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.25	9.25	< 0.005	< 0.005	< 0.005	9.70
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	—	1.26	1.26	< 0.005	< 0.005	< 0.005	1.32
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.53	1.53	< 0.005	< 0.005	< 0.005	1.61

3.3. Move-On (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	1.02	1.02	22.8	41.2	0.07	0.72	—	0.72	0.65	—	0.65	—	7,022	7,022	0.28	0.06	—	7,046

Dust From Material Movement	—	—	—	—	—	—	2.85	2.85	—	1.09	1.09	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.20	0.14	< 0.005	< 0.005	1.11	1.11	< 0.005	0.11	0.11	—	31.6	31.6	< 0.005	0.01	< 0.005	33.2
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.63	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	192	192	0.01	< 0.005	—	193
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.86	0.86	< 0.005	< 0.005	< 0.005	0.90
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.11	0.21	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	31.9	31.9	< 0.005	< 0.005	—	32.0
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
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	0.01	< 0.005	0.12	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.6	18.6	< 0.005	< 0.005	< 0.005	19.5
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.27	5.27	< 0.005	< 0.005	< 0.005	5.53
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	—	0.51	0.51	< 0.005	< 0.005	< 0.005	0.53
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.08	0.08	< 0.005	< 0.005	< 0.005	0.09
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02

3.4. Move-On (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	1.02	1.02	22.8	41.2	0.07	0.72	—	0.72	0.65	—	0.65	—	7,022	7,022	0.28	0.06	—	7,046
Dust From Material Movement	—	—	—	—	—	—	2.85	2.85	—	1.09	1.09	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.20	0.14	< 0.005	< 0.005	1.11	1.11	< 0.005	0.11	0.11	—	31.6	31.6	< 0.005	0.01	< 0.005	33.2

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.63	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	192	192	0.01	< 0.005	—	193
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.86	0.86	< 0.005	< 0.005	< 0.005	0.90
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.11	0.21	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	31.9	31.9	< 0.005	< 0.005	—	32.0
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
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	0.01	< 0.005	0.12	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.6	18.6	< 0.005	< 0.005	< 0.005	19.5
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.27	5.27	< 0.005	< 0.005	< 0.005	5.53
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	—	0.51	0.51	< 0.005	< 0.005	< 0.005	0.53
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.08	0.08	< 0.005	< 0.005	< 0.005	0.09
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02

3.5. Cleanup/Testing/Restoration (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	0.58	0.58	15.1	17.9	0.03	0.60	—	0.60	0.54	—	0.54	—	3,411	3,411	0.14	0.03	—	3,423
Dust From Material Movement	—	—	—	—	—	—	0.78	0.78	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	0.01	< 0.005	0.09	0.07	< 0.005	< 0.005	0.56	0.56	< 0.005	0.06	0.06	—	14.9	14.9	< 0.005	< 0.005	0.01	15.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.58	0.58	15.1	17.9	0.03	0.60	—	0.60	0.54	—	0.54	—	3,411	3,411	0.14	0.03	—	3,423

Dust From Material Movement	—	—	—	—	—	—	0.78	0.78	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	0.01	< 0.005	0.10	0.07	< 0.005	< 0.005	0.56	0.56	< 0.005	0.06	0.06	—	15.2	15.2	< 0.005	< 0.005	< 0.005	15.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.14	3.63	4.33	0.01	0.15	—	0.15	0.13	—	0.13	—	822	822	0.03	0.01	—	825
Dust From Material Movement	—	—	—	—	—	—	0.19	0.19	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.13	0.13	< 0.005	0.01	0.01	—	3.62	3.62	< 0.005	< 0.005	< 0.005	3.80
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.66	0.79	< 0.005	0.03	—	0.03	0.02	—	0.02	—	136	136	0.01	< 0.005	—	137
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.60	0.60	< 0.005	< 0.005	< 0.005	0.63
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	—	10.6	10.6	< 0.005	< 0.005	0.01	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

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	—	10.7	10.7	< 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	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.57	2.57	< 0.005	< 0.005	< 0.005	2.70
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	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	—	0.43	0.43	< 0.005	< 0.005	< 0.005	0.45
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

3.6. Cleanup/Testing/Restoration (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	0.58	0.58	15.1	17.9	0.03	0.60	—	0.60	0.54	—	0.54	—	3,411	3,411	0.14	0.03	—	3,423
Dust From Material Movement	—	—	—	—	—	—	0.78	0.78	—	0.08	0.08	—	—	—	—	—	—	—

Onsite truck	0.01	< 0.005	0.09	0.07	< 0.005	< 0.005	0.56	0.56	< 0.005	0.06	0.06	—	14.9	14.9	< 0.005	< 0.005	0.01	15.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.58	0.58	15.1	17.9	0.03	0.60	—	0.60	0.54	—	0.54	—	3,411	3,411	0.14	0.03	—	3,423
Dust From Material Movement	—	—	—	—	—	—	0.78	0.78	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	0.01	< 0.005	0.10	0.07	< 0.005	< 0.005	0.56	0.56	< 0.005	0.06	0.06	—	15.2	15.2	< 0.005	< 0.005	< 0.005	15.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.14	3.63	4.33	0.01	0.15	—	0.15	0.13	—	0.13	—	822	822	0.03	0.01	—	825
Dust From Material Movement	—	—	—	—	—	—	0.19	0.19	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.13	0.13	< 0.005	0.01	0.01	—	3.62	3.62	< 0.005	< 0.005	< 0.005	3.80
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.66	0.79	< 0.005	0.03	—	0.03	0.02	—	0.02	—	136	136	0.01	< 0.005	—	137
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.60	0.60	< 0.005	< 0.005	< 0.005	0.63

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	—	10.6	10.6	< 0.005	< 0.005	0.01	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
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	—	10.7	10.7	< 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	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.57	2.57	< 0.005	< 0.005	< 0.005	2.70
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	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	—	0.43	0.43	< 0.005	< 0.005	< 0.005	0.45
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

3.7. Site Preparation and 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	1.20	1.20	21.7	59.1	0.10	0.56	—	0.56	0.52	—	0.52	—	9,817	9,817	0.40	0.08	—	9,851
Dust From Material Movement	—	—	—	—	—	—	2.30	2.30	—	0.64	0.64	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.17	0.12	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	26.3	26.3	< 0.005	< 0.005	< 0.005	27.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.72	1.96	< 0.005	0.02	—	0.02	0.02	—	0.02	—	327	327	0.01	< 0.005	—	328
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.87	0.87	< 0.005	< 0.005	< 0.005	0.91
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.13	0.36	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	54.1	54.1	< 0.005	< 0.005	—	54.3
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
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	0.01	< 0.005	0.12	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.6	18.6	< 0.005	< 0.005	< 0.005	19.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.61	0.61	< 0.005	< 0.005	< 0.005	0.64
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.10	0.10	< 0.005	< 0.005	< 0.005	0.11
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Site Preparation and 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	1.20	1.20	21.7	59.1	0.10	0.56	—	0.56	0.52	—	0.52	—	9,817	9,817	0.40	0.08	—	9,851
Dust From Material Movement	—	—	—	—	—	—	2.30	2.30	—	0.64	0.64	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.17	0.12	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	26.3	26.3	< 0.005	< 0.005	< 0.005	27.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.72	1.96	< 0.005	0.02	—	0.02	0.02	—	0.02	—	327	327	0.01	< 0.005	—	328
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.87	0.87	< 0.005	< 0.005	< 0.005	0.91
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.13	0.36	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	54.1	54.1	< 0.005	< 0.005	—	54.3
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
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	0.01	< 0.005	0.12	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.6	18.6	< 0.005	< 0.005	< 0.005	19.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.61	0.61	< 0.005	< 0.005	< 0.005	0.64
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.10	0.10	< 0.005	< 0.005	< 0.005	0.11
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Site Preparation and 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	1.20	1.20	21.7	59.1	0.10	0.56	—	0.56	0.52	—	0.52	—	9,818	9,818	0.40	0.08	—	9,851
Dust From Material Movement	—	—	—	—	—	—	2.30	2.30	—	0.64	0.64	—	—	—	—	—	—	—

Onsite truck	0.01	0.01	0.16	0.11	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	25.4	25.4	< 0.005	< 0.005	0.02	26.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.20	1.20	21.7	59.1	0.10	0.56	—	0.56	0.52	—	0.52	—	9,818	9,818	0.40	0.08	—	9,851
Dust From Material Movement	—	—	—	—	—	—	2.30	2.30	—	0.64	0.64	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.17	0.12	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	25.8	25.8	< 0.005	< 0.005	< 0.005	27.1
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	0.25	4.46	12.1	0.02	0.12	—	0.12	0.11	—	0.11	—	2,017	2,017	0.08	0.02	—	2,024
Dust From Material Movement	—	—	—	—	—	—	0.47	0.47	—	0.13	0.13	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.18	0.18	< 0.005	0.02	0.02	—	5.25	5.25	< 0.005	< 0.005	< 0.005	5.52
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	0.81	2.21	< 0.005	0.02	—	0.02	0.02	—	0.02	—	334	334	0.01	< 0.005	—	335
Dust From Material Movement	—	—	—	—	—	—	0.09	0.09	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.87	0.87	< 0.005	< 0.005	< 0.005	0.91

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	0.01	0.01	0.11	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.0	18.0	< 0.005	< 0.005	0.02	18.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.01	< 0.005	0.11	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.3	18.3	< 0.005	< 0.005	< 0.005	19.1
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	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.72	3.72	< 0.005	< 0.005	< 0.005	3.90
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	—	0.62	0.62	< 0.005	< 0.005	< 0.005	0.65
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Site Preparation and 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	1.20	1.20	21.7	59.1	0.10	0.56	—	0.56	0.52	—	0.52	—	9,818	9,818	0.40	0.08	—	9,851
Dust From Material Movement	—	—	—	—	—	—	2.30	2.30	—	0.64	0.64	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.16	0.11	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	25.4	25.4	< 0.005	< 0.005	0.02	26.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.20	1.20	21.7	59.1	0.10	0.56	—	0.56	0.52	—	0.52	—	9,818	9,818	0.40	0.08	—	9,851
Dust From Material Movement	—	—	—	—	—	—	2.30	2.30	—	0.64	0.64	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.17	0.12	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	25.8	25.8	< 0.005	< 0.005	< 0.005	27.1
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	0.25	4.46	12.1	0.02	0.12	—	0.12	0.11	—	0.11	—	2,017	2,017	0.08	0.02	—	2,024
Dust From Material Movement	—	—	—	—	—	—	0.47	0.47	—	0.13	0.13	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.18	0.18	< 0.005	0.02	0.02	—	5.25	5.25	< 0.005	< 0.005	< 0.005	5.52
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	0.81	2.21	< 0.005	0.02	—	0.02	0.02	—	0.02	—	334	334	0.01	< 0.005	—	335

Dust From Material Movement	—	—	—	—	—	—	0.09	0.09	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.87	0.87	< 0.005	< 0.005	< 0.005	0.91
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	0.01	0.01	0.11	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.0	18.0	< 0.005	< 0.005	0.02	18.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.01	< 0.005	0.11	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.3	18.3	< 0.005	< 0.005	< 0.005	19.1
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	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.72	3.72	< 0.005	< 0.005	< 0.005	3.90
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	—	0.62	0.62	< 0.005	< 0.005	< 0.005	0.65
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Substation 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,902	3,902	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	0.01	10.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,902	3,902	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.3	10.3	< 0.005	< 0.005	< 0.005	10.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21	0.21	3.44	10.3	0.02	0.10	—	0.10	0.09	—	0.09	—	1,749	1,749	0.07	0.01	—	1,755
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.16	0.16	< 0.005	0.02	0.02	—	4.58	4.58	< 0.005	< 0.005	< 0.005	4.81
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.63	1.88	< 0.005	0.02	—	0.02	0.02	—	0.02	—	290	290	0.01	< 0.005	—	291
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.76	0.76	< 0.005	< 0.005	< 0.005	0.80
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	—	3.60	3.60	< 0.005	< 0.005	< 0.005	3.78
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.07	5.07	< 0.005	< 0.005	< 0.005	5.32
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	—	3.65	3.65	< 0.005	< 0.005	< 0.005	3.83
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	5.42
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.62	1.62	< 0.005	< 0.005	< 0.005	1.70
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.29	2.29	< 0.005	< 0.005	< 0.005	2.41
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	—	0.27	0.27	< 0.005	< 0.005	< 0.005	0.28
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.38	0.38	< 0.005	< 0.005	< 0.005	0.40

3.12. Substation 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,902	3,902	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	0.01	10.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,902	3,902	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.3	10.3	< 0.005	< 0.005	< 0.005	10.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21	0.21	3.44	10.3	0.02	0.10	—	0.10	0.09	—	0.09	—	1,749	1,749	0.07	0.01	—	1,755
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.16	0.16	< 0.005	0.02	0.02	—	4.58	4.58	< 0.005	< 0.005	< 0.005	4.81
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.63	1.88	< 0.005	0.02	—	0.02	0.02	—	0.02	—	290	290	0.01	< 0.005	—	291
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.76	0.76	< 0.005	< 0.005	< 0.005	0.80
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	—	3.60	3.60	< 0.005	< 0.005	< 0.005	3.78
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.07	5.07	< 0.005	< 0.005	< 0.005	5.32

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	—	3.65	3.65	< 0.005	< 0.005	< 0.005	3.83
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	5.42
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.62	1.62	< 0.005	< 0.005	< 0.005	1.70
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.29	2.29	< 0.005	< 0.005	< 0.005	2.41
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	—	0.27	0.27	< 0.005	< 0.005	< 0.005	0.28
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.38	0.38	< 0.005	< 0.005	< 0.005	0.40

3.13. Substation 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	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,903	3,903	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	9.93	9.93	< 0.005	< 0.005	0.01	10.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,903	3,903	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.12	0.12	2.00	5.99	0.01	0.06	—	0.06	0.05	—	0.05	—	1,016	1,016	0.04	0.01	—	1,019
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.09	0.09	< 0.005	0.01	0.01	—	2.60	2.60	< 0.005	< 0.005	< 0.005	2.73
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.02	0.02	0.36	1.09	< 0.005	0.01	—	0.01	0.01	—	0.01	—	168	168	0.01	< 0.005	—	169
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.43	0.43	< 0.005	< 0.005	< 0.005	0.45
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	—	3.53	3.53	< 0.005	< 0.005	< 0.005	3.71
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.97	4.97	< 0.005	< 0.005	< 0.005	5.21
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	—	3.58	3.58	< 0.005	< 0.005	< 0.005	3.76
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.05	5.05	< 0.005	< 0.005	< 0.005	5.31
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	—	0.92	0.92	< 0.005	< 0.005	< 0.005	0.97
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.30	1.30	< 0.005	< 0.005	< 0.005	1.37
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	—	0.15	0.15	< 0.005	< 0.005	< 0.005	0.16
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.22	0.22	< 0.005	< 0.005	< 0.005	0.23

3.14. Substation 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	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,903	3,903	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	9.93	9.93	< 0.005	< 0.005	0.01	10.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.47	7.68	23.0	0.04	0.22	—	0.22	0.20	—	0.20	—	3,903	3,903	0.16	0.03	—	3,916
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.12	0.12	2.00	5.99	0.01	0.06	—	0.06	0.05	—	0.05	—	1,016	1,016	0.04	0.01	—	1,019
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.09	0.09	< 0.005	0.01	0.01	—	2.60	2.60	< 0.005	< 0.005	< 0.005	2.73
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.36	1.09	< 0.005	0.01	—	0.01	0.01	—	0.01	—	168	168	0.01	< 0.005	—	169
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.43	0.43	< 0.005	< 0.005	< 0.005	0.45
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	—	3.53	3.53	< 0.005	< 0.005	< 0.005	3.71
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.97	4.97	< 0.005	< 0.005	< 0.005	5.21
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	—	3.58	3.58	< 0.005	< 0.005	< 0.005	3.76
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.05	5.05	< 0.005	< 0.005	< 0.005	5.31
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	—	0.92	0.92	< 0.005	< 0.005	< 0.005	0.97
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.30	1.30	< 0.005	< 0.005	< 0.005	1.37
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	—	0.15	0.15	< 0.005	< 0.005	< 0.005	0.16

Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.22	0.22	< 0.005	< 0.005	< 0.005	0.23

3.15. System Installation - Solar Facility (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,192	7,192	0.29	0.06	—	7,216
Onsite truck	0.02	0.01	0.22	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	35.5	35.5	< 0.005	0.01	0.03	37.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,192	7,192	0.29	0.06	—	7,216
Onsite truck	0.01	0.01	0.24	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	36.1	36.1	< 0.005	0.01	< 0.005	37.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.18	3.24	10.5	0.01	0.03	—	0.03	0.03	—	0.03	—	1,492	1,492	0.06	0.01	—	1,497
Onsite truck	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	0.25	0.25	< 0.005	0.03	0.03	—	7.42	7.42	< 0.005	< 0.005	< 0.005	7.80
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.03	0.03	0.59	1.92	< 0.005	0.01	—	0.01	0.01	—	0.01	—	247	247	0.01	< 0.005	—	248
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	—	1.23	1.23	< 0.005	< 0.005	< 0.005	1.29
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	0.01	0.01	0.11	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.0	18.0	< 0.005	< 0.005	0.02	18.9
Hauling	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	0.01	10.6
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	0.01	< 0.005	0.11	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.3	18.3	< 0.005	< 0.005	< 0.005	19.1
Hauling	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.3	10.3	< 0.005	< 0.005	< 0.005	10.8
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	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.76	3.76	< 0.005	< 0.005	< 0.005	3.94
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.12	2.12	< 0.005	< 0.005	< 0.005	2.23
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	—	0.62	0.62	< 0.005	< 0.005	< 0.005	0.65
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.35	0.35	< 0.005	< 0.005	< 0.005	0.37

3.16. System Installation - Solar Facility (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	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,192	7,192	0.29	0.06	—	7,216
Onsite truck	0.02	0.01	0.22	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	35.5	35.5	< 0.005	0.01	0.03	37.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,192	7,192	0.29	0.06	—	7,216
Onsite truck	0.01	0.01	0.24	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	36.1	36.1	< 0.005	0.01	< 0.005	37.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.18	3.24	10.5	0.01	0.03	—	0.03	0.03	—	0.03	—	1,492	1,492	0.06	0.01	—	1,497
Onsite truck	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	0.25	0.25	< 0.005	0.03	0.03	—	7.42	7.42	< 0.005	< 0.005	< 0.005	7.80
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.59	1.92	< 0.005	0.01	—	0.01	0.01	—	0.01	—	247	247	0.01	< 0.005	—	248
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	—	1.23	1.23	< 0.005	< 0.005	< 0.005	1.29
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	0.01	0.01	0.11	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.0	18.0	< 0.005	< 0.005	0.02	18.9
Hauling	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	0.01	10.6
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	0.01	< 0.005	0.11	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.3	18.3	< 0.005	< 0.005	< 0.005	19.1
Hauling	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.3	10.3	< 0.005	< 0.005	< 0.005	10.8
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	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.76	3.76	< 0.005	< 0.005	< 0.005	3.94
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.12	2.12	< 0.005	< 0.005	< 0.005	2.23
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	—	0.62	0.62	< 0.005	< 0.005	< 0.005	0.65
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.35	0.35	< 0.005	< 0.005	< 0.005	0.37

3.17. System Installation - Solar Facility (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 Equipm	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,188	7,188	0.29	0.06	—	7,212
Onsite truck	0.02	0.01	0.22	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	34.8	34.8	< 0.005	0.01	0.02	36.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,188	7,188	0.29	0.06	—	7,212
Onsite truck	0.01	0.01	0.23	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	35.4	35.4	< 0.005	0.01	< 0.005	37.2
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	0.24	4.28	13.9	0.02	0.04	—	0.04	0.04	—	0.04	—	1,969	1,969	0.08	0.02	—	1,976
Onsite truck	< 0.005	< 0.005	0.06	0.04	< 0.005	< 0.005	0.34	0.34	< 0.005	0.03	0.03	—	9.60	9.60	< 0.005	< 0.005	< 0.005	10.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.78	2.53	< 0.005	0.01	—	0.01	0.01	—	0.01	—	326	326	0.01	< 0.005	—	327
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.06	0.06	< 0.005	0.01	0.01	—	1.59	1.59	< 0.005	< 0.005	< 0.005	1.67
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	0.01	< 0.005	0.11	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	17.7	17.7	< 0.005	< 0.005	0.01	18.5
Hauling	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.93	9.93	< 0.005	< 0.005	0.01	10.4

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	0.01	< 0.005	0.11	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	17.9	17.9	< 0.005	< 0.005	< 0.005	18.8
Hauling	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
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	—	4.87	4.87	< 0.005	< 0.005	< 0.005	5.11
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.74	2.74	< 0.005	< 0.005	< 0.005	2.88
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.81	0.81	< 0.005	< 0.005	< 0.005	0.85
Hauling	< 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	0.48

3.18. System Installation - Solar Facility (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	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,188	7,188	0.29	0.06	—	7,212
Onsite truck	0.02	0.01	0.22	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	34.8	34.8	< 0.005	0.01	0.02	36.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.87	0.87	15.6	50.7	0.07	0.13	—	0.13	0.13	—	0.13	—	7,188	7,188	0.29	0.06	—	7,212
Onsite truck	0.01	0.01	0.23	0.16	< 0.005	< 0.005	1.30	1.30	< 0.005	0.13	0.13	—	35.4	35.4	< 0.005	0.01	< 0.005	37.2
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.24	0.24	4.28	13.9	0.02	0.04	—	0.04	0.04	—	0.04	—	1,969	1,969	0.08	0.02	—	1,976
Onsite truck	< 0.005	< 0.005	0.06	0.04	< 0.005	< 0.005	0.34	0.34	< 0.005	0.03	0.03	—	9.60	9.60	< 0.005	< 0.005	< 0.005	10.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.04	0.04	0.78	2.53	< 0.005	0.01	—	0.01	0.01	—	0.01	—	326	326	0.01	< 0.005	—	327
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.06	0.06	< 0.005	0.01	0.01	—	1.59	1.59	< 0.005	< 0.005	< 0.005	1.67
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	0.01	< 0.005	0.11	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	17.7	17.7	< 0.005	< 0.005	0.01	18.5
Hauling	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.93	9.93	< 0.005	< 0.005	0.01	10.4
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	0.01	< 0.005	0.11	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	17.9	17.9	< 0.005	< 0.005	< 0.005	18.8
Hauling	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
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	—	4.87	4.87	< 0.005	< 0.005	< 0.005	5.11
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.74	2.74	< 0.005	< 0.005	< 0.005	2.88
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.81	0.81	< 0.005	< 0.005	< 0.005	0.85
Hauling	< 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	0.48

3.19. Gen-tie Line Installation (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,343	1,343	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	0.01	10.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,343	1,343	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.3	10.3	< 0.005	< 0.005	< 0.005	10.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.06	0.06	0.46	3.63	0.01	0.01	—	0.01	0.01	—	0.01	—	581	581	0.02	< 0.005	—	583
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.15	0.15	< 0.005	0.02	0.02	—	4.42	4.42	< 0.005	< 0.005	< 0.005	4.64
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.66	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	96.1	96.1	< 0.005	< 0.005	—	96.5
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.73	0.73	< 0.005	< 0.005	< 0.005	0.77
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	—	3.60	3.60	< 0.005	< 0.005	< 0.005	3.78
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.07	5.07	< 0.005	< 0.005	< 0.005	5.32
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	—	3.65	3.65	< 0.005	< 0.005	< 0.005	3.83
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	5.42
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.57	1.57	< 0.005	< 0.005	< 0.005	1.64
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.21	2.21	< 0.005	< 0.005	< 0.005	2.32
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	—	0.26	0.26	< 0.005	< 0.005	< 0.005	0.27

Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.37	0.37	< 0.005	< 0.005	< 0.005	0.38

3.20. Gen-tie Line Installation (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	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,343	1,343	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	0.01	10.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,343	1,343	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.3	10.3	< 0.005	< 0.005	< 0.005	10.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.46	3.63	0.01	0.01	—	0.01	0.01	—	0.01	—	581	581	0.02	< 0.005	—	583
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.15	0.15	< 0.005	0.02	0.02	—	4.42	4.42	< 0.005	< 0.005	< 0.005	4.64
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.01	0.01	0.08	0.66	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	96.1	96.1	< 0.005	< 0.005	—	96.5
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.73	0.73	< 0.005	< 0.005	< 0.005	0.77
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	—	3.60	3.60	< 0.005	< 0.005	< 0.005	3.78
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.07	5.07	< 0.005	< 0.005	< 0.005	5.32
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	—	3.65	3.65	< 0.005	< 0.005	< 0.005	3.83
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	5.42
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.57	1.57	< 0.005	< 0.005	< 0.005	1.64
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.21	2.21	< 0.005	< 0.005	< 0.005	2.32
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	—	0.26	0.26	< 0.005	< 0.005	< 0.005	0.27
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.37	0.37	< 0.005	< 0.005	< 0.005	0.38

3.21. Gen-tie Line Installation (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	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,342	1,342	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	9.93	9.93	< 0.005	< 0.005	0.01	10.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,342	1,342	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.30	2.35	< 0.005	0.01	—	0.01	0.01	—	0.01	—	376	376	0.02	< 0.005	—	377
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.10	0.10	< 0.005	0.01	0.01	—	2.80	2.80	< 0.005	< 0.005	< 0.005	2.94
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.43	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	62.2	62.2	< 0.005	< 0.005	—	62.4
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.46	0.46	< 0.005	< 0.005	< 0.005	0.49
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	—	3.53	3.53	< 0.005	< 0.005	< 0.005	3.71
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.97	4.97	< 0.005	< 0.005	< 0.005	5.21
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	—	3.58	3.58	< 0.005	< 0.005	< 0.005	3.76
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.05	5.05	< 0.005	< 0.005	< 0.005	5.31
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	—	0.99	0.99	< 0.005	< 0.005	< 0.005	1.04
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.40	1.40	< 0.005	< 0.005	< 0.005	1.47
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	—	0.16	0.16	< 0.005	< 0.005	< 0.005	0.17
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.23	0.23	< 0.005	< 0.005	< 0.005	0.24

3.22. Gen-tie Line Installation (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 Equipm	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,342	1,342	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	9.93	9.93	< 0.005	< 0.005	0.01	10.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	1.06	8.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,342	1,342	0.05	0.01	—	1,347
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.30	2.35	< 0.005	0.01	—	0.01	0.01	—	0.01	—	376	376	0.02	< 0.005	—	377
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.10	0.10	< 0.005	0.01	0.01	—	2.80	2.80	< 0.005	< 0.005	< 0.005	2.94
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.43	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	62.2	62.2	< 0.005	< 0.005	—	62.4
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.46	0.46	< 0.005	< 0.005	< 0.005	0.49
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	—	3.53	3.53	< 0.005	< 0.005	< 0.005	3.71
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.97	4.97	< 0.005	< 0.005	< 0.005	5.21

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	—	3.58	3.58	< 0.005	< 0.005	< 0.005	3.76
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.05	5.05	< 0.005	< 0.005	< 0.005	5.31
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	—	0.99	0.99	< 0.005	< 0.005	< 0.005	1.04
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.40	1.40	< 0.005	< 0.005	< 0.005	1.47
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	—	0.16	0.16	< 0.005	< 0.005	< 0.005	0.17
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.23	0.23	< 0.005	< 0.005	< 0.005	0.24

3.23. Battery/Container Installation (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.51	0.51	8.86	27.3	0.04	0.19	—	0.19	0.17	—	0.17	—	4,184	4,184	0.17	0.03	—	4,199
Onsite truck	0.02	0.01	0.29	0.20	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	45.7	45.7	< 0.005	0.01	0.03	47.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.51	0.51	8.86	27.3	0.04	0.19	—	0.19	0.17	—	0.17	—	4,184	4,184	0.17	0.03	—	4,199
Onsite truck	0.02	0.01	0.30	0.21	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	46.5	46.5	< 0.005	0.01	< 0.005	48.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.19	0.19	3.30	10.2	0.01	0.07	—	0.07	0.06	—	0.06	—	1,556	1,556	0.06	0.01	—	1,561
Onsite truck	0.01	0.01	0.11	0.08	< 0.005	< 0.005	0.58	0.59	< 0.005	0.06	0.06	—	17.1	17.1	< 0.005	< 0.005	0.01	18.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.03	0.03	0.60	1.85	< 0.005	0.01	—	0.01	0.01	—	0.01	—	258	258	0.01	< 0.005	—	258
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.11	0.11	< 0.005	0.01	0.01	—	2.83	2.83	< 0.005	< 0.005	< 0.005	2.97
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	0.01	0.01	0.15	0.10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	25.2	25.2	< 0.005	< 0.005	0.02	26.5
Hauling	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	0.01	10.6
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	0.01	0.01	0.16	0.11	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	25.6	25.6	< 0.005	< 0.005	< 0.005	26.8
Hauling	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.3	10.3	< 0.005	< 0.005	< 0.005	10.8
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	0.06	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.43	9.43	< 0.005	< 0.005	< 0.005	9.89
Hauling	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.80	3.80	< 0.005	< 0.005	< 0.005	3.99
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	—	1.56	1.56	< 0.005	< 0.005	< 0.005	1.64
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.63	0.63	< 0.005	< 0.005	< 0.005	0.66

3.24. Battery/Container Installation (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	0.51	0.51	8.86	27.3	0.04	0.19	—	0.19	0.17	—	0.17	—	4,184	4,184	0.17	0.03	—	4,199
Onsite truck	0.02	0.01	0.29	0.20	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	45.7	45.7	< 0.005	0.01	0.03	47.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.51	0.51	8.86	27.3	0.04	0.19	—	0.19	0.17	—	0.17	—	4,184	4,184	0.17	0.03	—	4,199
Onsite truck	0.02	0.01	0.30	0.21	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	46.5	46.5	< 0.005	0.01	< 0.005	48.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.19	0.19	3.30	10.2	0.01	0.07	—	0.07	0.06	—	0.06	—	1,556	1,556	0.06	0.01	—	1,561
Onsite truck	0.01	0.01	0.11	0.08	< 0.005	< 0.005	0.58	0.59	< 0.005	0.06	0.06	—	17.1	17.1	< 0.005	< 0.005	0.01	18.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.60	1.85	< 0.005	0.01	—	0.01	0.01	—	0.01	—	258	258	0.01	< 0.005	—	258
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.11	0.11	< 0.005	0.01	0.01	—	2.83	2.83	< 0.005	< 0.005	< 0.005	2.97
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	0.01	0.01	0.15	0.10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	25.2	25.2	< 0.005	< 0.005	0.02	26.5
Hauling	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	0.01	10.6
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	0.01	0.01	0.16	0.11	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	25.6	25.6	< 0.005	< 0.005	< 0.005	26.8
Hauling	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.3	10.3	< 0.005	< 0.005	< 0.005	10.8
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	0.06	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.43	9.43	< 0.005	< 0.005	< 0.005	9.89
Hauling	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.80	3.80	< 0.005	< 0.005	< 0.005	3.99
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	—	1.56	1.56	< 0.005	< 0.005	< 0.005	1.64

Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.63	0.63	< 0.005	< 0.005	< 0.005	0.66

3.25. Battery/Container Installation (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.51	0.51	8.86	27.3	0.04	0.19	—	0.19	0.17	—	0.17	—	4,185	4,185	0.17	0.03	—	4,199
Onsite truck	0.02	0.01	0.30	0.21	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	45.5	45.5	< 0.005	0.01	< 0.005	47.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.99	3.05	< 0.005	0.02	—	0.02	0.02	—	0.02	—	467	467	0.02	< 0.005	—	468
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.18	0.18	< 0.005	0.02	0.02	—	5.02	5.02	< 0.005	< 0.005	< 0.005	5.27
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.18	0.56	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	77.3	77.3	< 0.005	< 0.005	—	77.6
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.83	0.83	< 0.005	< 0.005	< 0.005	0.87
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	0.01	0.01	0.16	0.11	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	25.1	25.1	< 0.005	< 0.005	< 0.005	26.3
Hauling	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.77	2.77	< 0.005	< 0.005	< 0.005	2.91
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.12	1.12	< 0.005	< 0.005	< 0.005	1.17
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.46	0.46	< 0.005	< 0.005	< 0.005	0.48
Hauling	< 0.005	< 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

3.26. Battery/Container Installation (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.51	0.51	8.86	27.3	0.04	0.19	—	0.19	0.17	—	0.17	—	4,185	4,185	0.17	0.03	—	4,199
Onsite truck	0.02	0.01	0.30	0.21	< 0.005	< 0.005	1.67	1.67	< 0.005	0.17	0.17	—	45.5	45.5	< 0.005	0.01	< 0.005	47.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.99	3.05	< 0.005	0.02	—	0.02	0.02	—	0.02	—	467	467	0.02	< 0.005	—	468
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.18	0.18	< 0.005	0.02	0.02	—	5.02	5.02	< 0.005	< 0.005	< 0.005	5.27
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.18	0.56	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	77.3	77.3	< 0.005	< 0.005	—	77.6
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.83	0.83	< 0.005	< 0.005	< 0.005	0.87
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	0.01	0.01	0.16	0.11	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	25.1	25.1	< 0.005	< 0.005	< 0.005	26.3
Hauling	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.77	2.77	< 0.005	< 0.005	< 0.005	2.91

Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.12	1.12	< 0.005	< 0.005	< 0.005	1.17
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.46	0.46	< 0.005	< 0.005	< 0.005	0.48
Hauling	< 0.005	< 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

3.27. PG&E Tranquility Switching Station Upgrades (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	1.93	1.62	14.1	17.8	0.04	0.55	—	0.55	0.50	—	0.50	—	3,781	3,781	0.15	0.03	—	3,794
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	9.93	9.93	< 0.005	< 0.005	0.01	10.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.93	1.62	14.1	17.8	0.04	0.55	—	0.55	0.50	—	0.50	—	3,781	3,781	0.15	0.03	—	3,794
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.39	3.41	4.30	0.01	0.13	—	0.13	0.12	—	0.12	—	912	912	0.04	0.01	—	915

Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.08	0.08	< 0.005	0.01	0.01	—	2.41	2.41	< 0.005	< 0.005	< 0.005	2.53
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.07	0.62	0.78	< 0.005	0.02	—	0.02	0.02	—	0.02	—	151	151	0.01	< 0.005	—	151
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.40	0.40	< 0.005	< 0.005	< 0.005	0.42
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	—	3.53	3.53	< 0.005	< 0.005	< 0.005	3.71
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.97	4.97	< 0.005	< 0.005	< 0.005	5.21
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	—	3.58	3.58	< 0.005	< 0.005	< 0.005	3.76
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.05	5.05	< 0.005	< 0.005	< 0.005	5.31
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	—	0.86	0.86	< 0.005	< 0.005	< 0.005	0.90
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.21	1.21	< 0.005	< 0.005	< 0.005	1.27
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	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
Hauling	< 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

3.28. PG&E Tranquility Switching Station Upgrades (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	1.93	1.62	14.1	17.8	0.04	0.55	—	0.55	0.50	—	0.50	—	3,781	3,781	0.15	0.03	—	3,794
Onsite truck	< 0.005	< 0.005	0.06	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	9.93	9.93	< 0.005	< 0.005	0.01	10.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.93	1.62	14.1	17.8	0.04	0.55	—	0.55	0.50	—	0.50	—	3,781	3,781	0.15	0.03	—	3,794
Onsite truck	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	10.1	10.1	< 0.005	< 0.005	< 0.005	10.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.39	3.41	4.30	0.01	0.13	—	0.13	0.12	—	0.12	—	912	912	0.04	0.01	—	915
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.08	0.08	< 0.005	0.01	0.01	—	2.41	2.41	< 0.005	< 0.005	< 0.005	2.53
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.07	0.62	0.78	< 0.005	0.02	—	0.02	0.02	—	0.02	—	151	151	0.01	< 0.005	—	151

Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	0.40	0.40	< 0.005	< 0.005	< 0.005	0.42
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	—	3.53	3.53	< 0.005	< 0.005	< 0.005	3.71
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.97	4.97	< 0.005	< 0.005	< 0.005	5.21
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	—	3.58	3.58	< 0.005	< 0.005	< 0.005	3.76
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.05	5.05	< 0.005	< 0.005	< 0.005	5.31
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	—	0.86	0.86	< 0.005	< 0.005	< 0.005	0.90
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.21	1.21	< 0.005	< 0.005	< 0.005	1.27
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	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
Hauling	< 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

3.29. Underground Work (2027) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	0.25	6.42	12.2	0.02	0.09	—	0.09	0.08	—	0.08	—	1,668	1,668	0.07	0.01	—	1,674
Onsite truck	0.01	0.01	0.16	0.11	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	25.4	25.4	< 0.005	< 0.005	0.02	26.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	1.93	3.69	< 0.005	0.03	—	0.03	0.02	—	0.02	—	503	503	0.02	< 0.005	—	504
Onsite truck	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	0.26	0.26	< 0.005	0.03	0.03	—	7.70	7.70	< 0.005	< 0.005	< 0.005	8.09
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.35	0.67	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	83.2	83.2	< 0.005	< 0.005	—	83.5
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	—	1.27	1.27	< 0.005	< 0.005	< 0.005	1.34
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	0.01	0.01	0.11	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.0	18.0	< 0.005	< 0.005	0.02	18.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

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	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.46	5.46	< 0.005	< 0.005	< 0.005	5.73
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.90	0.90	< 0.005	< 0.005	< 0.005	0.95
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.30. Underground Work (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	0.25	0.25	6.42	12.2	0.02	0.09	—	0.09	0.08	—	0.08	—	1,668	1,668	0.07	0.01	—	1,674
Onsite truck	0.01	0.01	0.16	0.11	< 0.005	< 0.005	0.93	0.93	< 0.005	0.09	0.09	—	25.4	25.4	< 0.005	< 0.005	0.02	26.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.07	0.07	1.93	3.69	< 0.005	0.03	—	0.03	0.02	—	0.02	—	503	503	0.02	< 0.005	—	504
Onsite truck	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	0.26	0.26	< 0.005	0.03	0.03	—	7.70	7.70	< 0.005	< 0.005	< 0.005	8.09
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.35	0.67	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	83.2	83.2	< 0.005	< 0.005	—	83.5
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	—	1.27	1.27	< 0.005	< 0.005	< 0.005	1.34
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	0.01	0.01	0.11	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.0	18.0	< 0.005	< 0.005	0.02	18.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.46	5.46	< 0.005	< 0.005	< 0.005	5.73
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.90	0.90	< 0.005	< 0.005	< 0.005	0.95
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

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.

4.1.2. Mitigated

Mobile source emissions results are presented in Sections 2.5. 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	—	—	—	—	—	—	—	—	—	—	—	—	40.0	40.0	0.01	< 0.005	—	40.4
Total	—	—	—	—	—	—	—	—	—	—	—	—	40.0	40.0	0.01	< 0.005	—	40.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	40.0	40.0	0.01	< 0.005	—	40.4
Total	—	—	—	—	—	—	—	—	—	—	—	—	40.0	40.0	0.01	< 0.005	—	40.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	6.63	6.63	< 0.005	< 0.005	—	6.69

Total	—	—	—	—	—	—	—	—	—	—	—	—	6.63	6.63	< 0.005	< 0.005	—	6.69

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	40.0	40.0	0.01	< 0.005	—	40.4
Total	—	—	—	—	—	—	—	—	—	—	—	—	40.0	40.0	0.01	< 0.005	—	40.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	40.0	40.0	0.01	< 0.005	—	40.4
Total	—	—	—	—	—	—	—	—	—	—	—	—	40.0	40.0	0.01	< 0.005	—	40.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	6.63	6.63	< 0.005	< 0.005	—	6.69
Total	—	—	—	—	—	—	—	—	—	—	—	—	6.63	6.63	< 0.005	< 0.005	—	6.69

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
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
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
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

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

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
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	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.3.2. Mitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coating	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	—	—	—	—	—	—	—	—	—	—	—	0.00	16.1	16.1	0.95	< 0.005	—	41.0
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	16.1	16.1	0.95	< 0.005	—	41.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.00	16.1	16.1	0.95	< 0.005	—	41.0
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	16.1	16.1	0.95	< 0.005	—	41.0

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.00	2.67	2.67	0.16	< 0.005	—	6.79
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	2.67	2.67	0.16	< 0.005	—	6.79

4.4.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.00	11.9	11.9	0.95	< 0.005	—	36.8
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	11.9	11.9	0.95	< 0.005	—	36.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.00	11.9	11.9	0.95	< 0.005	—	36.8
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	11.9	11.9	0.95	< 0.005	—	36.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.00	1.98	1.98	0.16	< 0.005	—	6.09
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	1.98	1.98	0.16	< 0.005	—	6.09

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	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Total	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Total	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.33	0.00	0.33	0.03	0.00	—	1.16
Total	—	—	—	—	—	—	—	—	—	—	—	0.33	0.00	0.33	0.03	0.00	—	1.16

4.5.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Total	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Total	—	—	—	—	—	—	—	—	—	—	—	2.00	0.00	2.00	0.20	0.00	—	7.01
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.33	0.00	0.33	0.03	0.00	—	1.16
Total	—	—	—	—	—	—	—	—	—	—	—	0.33	0.00	0.33	0.03	0.00	—	1.16

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13

4.6.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13	0.13

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.7.2. Mitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

4.8.2. Mitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.9.2. Mitigated

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Decommissioning	Demolition	1/1/2050	10/5/2050	5.00	198	—
Move-On	Site Preparation	12/1/2026	12/14/2026	5.00	10.0	—
Cleanup/Testing/Restoration	Site Preparation	1/27/2028	5/29/2028	5.00	88.0	—
Site Preparation and Grading	Grading	12/15/2026	4/15/2027	5.00	88.0	—
Substation Construction	Building Construction	5/17/2027	5/12/2028	5.00	260	—
System Installation - Solar Facility	Building Construction	9/17/2027	5/19/2028	5.00	176	—
Gen-tie Line Installation	Building Construction	5/25/2027	5/22/2028	5.00	260	—
Battery/Container Installation	Building Construction	6/25/2027	2/26/2028	5.00	176	—

PG&E Tranquility Switching Station Upgrades	Building Construction	1/27/2028	5/29/2028	5.00	88.0	—
Underground Work	Trenching	4/16/2027	9/16/2027	5.00	110	—

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
Decommissioning	Tractors/Loaders/Backhoes	Diesel	Average	1.00	6.00	84.0	0.37
Move-On	Graders	Diesel	Tier 3	2.00	6.00	148	0.41
Move-On	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2.00	6.00	84.0	0.37
Move-On	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	6.00	367	0.40
Move-On	Scrapers	Diesel	Tier 3	2.00	6.00	423	0.48
Move-On	Rubber Tired Loaders	Diesel	Tier 4 Final	2.00	6.00	150	0.36
Move-On	Skid Steer Loaders	Diesel	Tier 4 Final	3.00	6.00	71.0	0.37
Move-On	Generator Sets	Diesel	Tier 4 Final	1.00	24.0	25.0	0.74
Cleanup/Testing/Restoration	Tractors/Loaders/Backhoes	Diesel	Tier 3	1.00	4.00	84.0	0.37
Cleanup/Testing/Restoration	Graders	Diesel	Tier 3	1.00	6.00	148	0.41
Cleanup/Testing/Restoration	Scrapers	Diesel	Tier 3	2.00	6.00	423	0.48
Site Preparation and Grading	Pumps	Diesel	Tier 4 Final	2.00	8.00	25.0	0.74
Site Preparation and Grading	Graders	Diesel	Tier 3	2.00	8.00	148	0.41
Site Preparation and Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	3.00	367	0.40

Site Preparation and Grading	Scrapers	Diesel	Tier 4 Final	3.00	6.00	423	0.48
Site Preparation and Grading	Rubber Tired Loaders	Diesel	Tier 4 Final	3.00	6.00	150	0.36
Site Preparation and Grading	Tractors/Loaders/Backhoes	Diesel	Tier 3	4.00	6.00	84.0	0.37
Site Preparation and Grading	Rollers	Diesel	Tier 4 Final	1.00	3.00	36.0	0.38
Site Preparation and Grading	Skid Steer Loaders	Diesel	Tier 4 Final	2.00	6.00	71.0	0.37
Site Preparation and Grading	Generator Sets	Diesel	Tier 4 Final	2.00	24.0	25.0	0.74
Substation Construction	Generator Sets	Diesel	Tier 4 Final	1.00	12.0	25.0	0.74
Substation Construction	Other General Industrial Equipment	Diesel	Tier 4 Final	1.00	4.00	35.0	0.34
Substation Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	4.00	84.0	0.37
Substation Construction	Cranes	Diesel	Tier 4 Final	1.00	5.00	367	0.29
Substation Construction	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00	4.00	96.0	0.40
Substation Construction	Aerial Lifts	Diesel	Tier 4 Final	1.00	4.00	46.0	0.31
Substation Construction	Graders	Diesel	Tier 4 Final	1.00	6.00	148	0.41
Substation Construction	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	3.00	367	0.40
Substation Construction	Scrapers	Diesel	Tier 3	1.00	4.00	423	0.48
Substation Construction	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	3.00	150	0.36
Substation Construction	Excavators	Diesel	Tier 4 Final	1.00	4.00	36.0	0.38

Substation Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	6.00	84.0	0.37
System Installation - Solar Facility	Rough Terrain Forklifts	Diesel	Tier 4 Final	5.00	4.00	96.0	0.40
System Installation - Solar Facility	Aerial Lifts	Diesel	Tier 4 Final	3.00	4.00	46.0	0.31
System Installation - Solar Facility	Skid Steer Loaders	Diesel	Tier 4 Final	10.0	4.00	71.0	0.37
System Installation - Solar Facility	Air Compressors	Diesel	Tier 4 Final	1.00	6.00	37.0	0.48
System Installation - Solar Facility	Other Construction Equipment	Diesel	Tier 4 Final	15.0	6.00	82.0	0.42
System Installation - Solar Facility	Generator Sets	Diesel	Tier 4 Final	2.00	24.0	25.0	0.74
Gen-tie Line Installation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	4.00	84.0	0.37
Gen-tie Line Installation	Cranes	Diesel	Tier 4 Final	1.00	4.00	367	0.29
Gen-tie Line Installation	Crawler Tractors	Diesel	Tier 4 Final	1.00	4.00	87.0	0.43
Gen-tie Line Installation	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	2.00	83.0	0.50
Gen-tie Line Installation	Rough Terrain Forklifts	Diesel	Tier 4 Final	1.00	4.00	96.0	0.40
Gen-tie Line Installation	Other Construction Equipment	Diesel	Tier 4 Final	1.00	4.00	82.0	0.42
Gen-tie Line Installation	Generator Sets	Diesel	Tier 4 Final	1.00	4.00	25.0	0.74
Battery/Container Installation	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	8.00	150	0.36
Battery/Container Installation	Excavators	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
Battery/Container Installation	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00	8.00	96.0	0.40

Battery/Container Installation	Cranes	Diesel	Tier 4 Final	1.00	8.00	367	0.29
Battery/Container Installation	Graders	Diesel	Tier 3	1.00	8.00	148	0.41
Battery/Container Installation	Skid Steer Loaders	Diesel	Tier 4 Final	2.00	8.00	71.0	0.37
Battery/Container Installation	Welders	Diesel	Tier 4 Final	1.00	8.00	46.0	0.45
Battery/Container Installation	Generator Sets	Diesel	Tier 4 Final	1.00	8.00	25.0	0.74
Battery/Container Installation	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	8.00	83.0	0.50
PG&E Tranquility Switching Station Upgrades	Generator Sets	Diesel	Average	1.00	12.0	14.0	0.74
PG&E Tranquility Switching Station Upgrades	Other General Industrial Equipment	Diesel	Average	1.00	4.00	35.0	0.34
PG&E Tranquility Switching Station Upgrades	Tractors/Loaders/Backhoes	Diesel	Average	2.00	5.00	84.0	0.37
PG&E Tranquility Switching Station Upgrades	Cranes	Diesel	Average	1.00	5.00	367	0.29
PG&E Tranquility Switching Station Upgrades	Rough Terrain Forklifts	Diesel	Average	2.00	4.00	96.0	0.40
PG&E Tranquility Switching Station Upgrades	Aerial Lifts	Diesel	Average	1.00	4.00	46.0	0.31
PG&E Tranquility Switching Station Upgrades	Graders	Diesel	Average	1.00	6.00	148	0.41
PG&E Tranquility Switching Station Upgrades	Rubber Tired Dozers	Diesel	Average	1.00	3.00	367	0.40

PG&E Tranquility Switching Station Upgrades	Scrapers	Diesel	Average	1.00	4.00	423	0.48
PG&E Tranquility Switching Station Upgrades	Rubber Tired Loaders	Diesel	Average	1.00	3.00	150	0.36
PG&E Tranquility Switching Station Upgrades	Excavators	Diesel	Average	1.00	4.00	36.0	0.38
Underground Work	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	6.00	84.0	0.37
Underground Work	Trenchers	Diesel	Tier 4 Final	5.00	6.00	40.0	0.50
Underground Work	Plate Compactors	Diesel	Tier 4 Final	1.00	6.00	25.0	0.43
Underground Work	Excavators	Diesel	Tier 4 Final	1.00	4.00	36.0	0.38
Underground Work	Other Construction Equipment	Diesel	Tier 4 Final	1.00	6.00	82.0	0.42
Underground Work	Tractors/Loaders/Backhoes	Diesel	Tier 3	2.00	4.00	84.0	0.37
Underground Work	Rollers	Diesel	Tier 4 Final	2.00	2.00	36.0	0.38

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Decommissioning	Tractors/Loaders/Backhoes	Diesel	Average	1.00	6.00	84.0	0.37
Move-On	Graders	Diesel	Tier 3	2.00	6.00	148	0.41
Move-On	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2.00	6.00	84.0	0.37
Move-On	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	6.00	367	0.40
Move-On	Scrapers	Diesel	Tier 3	2.00	6.00	423	0.48
Move-On	Rubber Tired Loaders	Diesel	Tier 4 Final	2.00	6.00	150	0.36
Move-On	Skid Steer Loaders	Diesel	Tier 4 Final	3.00	6.00	71.0	0.37
Move-On	Generator Sets	Diesel	Tier 4 Final	1.00	24.0	25.0	0.74

Cleanup/Testing/Resto	Tractors/Loaders/Back	Diesel	Tier 3	1.00	4.00	84.0	0.37
Cleanup/Testing/Restoration	Graders	Diesel	Tier 3	1.00	6.00	148	0.41
Cleanup/Testing/Restoration	Scrapers	Diesel	Tier 3	2.00	6.00	423	0.48
Site Preparation and Grading	Pumps	Diesel	Tier 4 Final	2.00	8.00	25.0	0.74
Site Preparation and Grading	Graders	Diesel	Tier 3	2.00	8.00	148	0.41
Site Preparation and Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	3.00	367	0.40
Site Preparation and Grading	Scrapers	Diesel	Tier 4 Final	3.00	6.00	423	0.48
Site Preparation and Grading	Rubber Tired Loaders	Diesel	Tier 4 Final	3.00	6.00	150	0.36
Site Preparation and Grading	Tractors/Loaders/Backhoes	Diesel	Tier 3	4.00	6.00	84.0	0.37
Site Preparation and Grading	Rollers	Diesel	Tier 4 Final	1.00	3.00	36.0	0.38
Site Preparation and Grading	Skid Steer Loaders	Diesel	Tier 4 Final	2.00	6.00	71.0	0.37
Site Preparation and Grading	Generator Sets	Diesel	Tier 4 Final	2.00	24.0	25.0	0.74
Substation Construction	Generator Sets	Diesel	Tier 4 Final	1.00	12.0	25.0	0.74
Substation Construction	Other General Industrial Equipment	Diesel	Tier 4 Final	1.00	4.00	35.0	0.34
Substation Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	4.00	84.0	0.37
Substation Construction	Cranes	Diesel	Tier 4 Final	1.00	5.00	367	0.29
Substation Construction	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00	4.00	96.0	0.40
Substation Construction	Aerial Lifts	Diesel	Tier 4 Final	1.00	4.00	46.0	0.31

Substation Construction	Graders	Diesel	Tier 4 Final	1.00	6.00	148	0.41
Substation Construction	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	3.00	367	0.40
Substation Construction	Scrapers	Diesel	Tier 3	1.00	4.00	423	0.48
Substation Construction	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	3.00	150	0.36
Substation Construction	Excavators	Diesel	Tier 4 Final	1.00	4.00	36.0	0.38
Substation Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	6.00	84.0	0.37
System Installation - Solar Facility	Rough Terrain Forklifts	Diesel	Tier 4 Final	5.00	4.00	96.0	0.40
System Installation - Solar Facility	Aerial Lifts	Diesel	Tier 4 Final	3.00	4.00	46.0	0.31
System Installation - Solar Facility	Skid Steer Loaders	Diesel	Tier 4 Final	10.0	4.00	71.0	0.37
System Installation - Solar Facility	Air Compressors	Diesel	Tier 4 Final	1.00	6.00	37.0	0.48
System Installation - Solar Facility	Other Construction Equipment	Diesel	Tier 4 Final	15.0	6.00	82.0	0.42
System Installation - Solar Facility	Generator Sets	Diesel	Tier 4 Final	2.00	24.0	25.0	0.74
Gen-tie Line Installation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	4.00	84.0	0.37
Gen-tie Line Installation	Cranes	Diesel	Tier 4 Final	1.00	4.00	367	0.29
Gen-tie Line Installation	Crawler Tractors	Diesel	Tier 4 Final	1.00	4.00	87.0	0.43
Gen-tie Line Installation	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	2.00	83.0	0.50
Gen-tie Line Installation	Rough Terrain Forklifts	Diesel	Tier 4 Final	1.00	4.00	96.0	0.40

Gen-tie Line Installation	Other Construction Equipment	Diesel	Tier 4 Final	1.00	4.00	82.0	0.42
Gen-tie Line Installation	Generator Sets	Diesel	Tier 4 Final	1.00	4.00	25.0	0.74
Battery/Container Installation	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	8.00	150	0.36
Battery/Container Installation	Excavators	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
Battery/Container Installation	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00	8.00	96.0	0.40
Battery/Container Installation	Cranes	Diesel	Tier 4 Final	1.00	8.00	367	0.29
Battery/Container Installation	Graders	Diesel	Tier 3	1.00	8.00	148	0.41
Battery/Container Installation	Skid Steer Loaders	Diesel	Tier 4 Final	2.00	8.00	71.0	0.37
Battery/Container Installation	Welders	Diesel	Tier 4 Final	1.00	8.00	46.0	0.45
Battery/Container Installation	Generator Sets	Diesel	Tier 4 Final	1.00	8.00	25.0	0.74
Battery/Container Installation	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	8.00	83.0	0.50
PG&E Tranquility Switching Station Upgrades	Generator Sets	Diesel	Average	1.00	12.0	14.0	0.74
PG&E Tranquility Switching Station Upgrades	Other General Industrial Equipment	Diesel	Average	1.00	4.00	35.0	0.34
PG&E Tranquility Switching Station Upgrades	Tractors/Loaders/Backhoes	Diesel	Average	2.00	5.00	84.0	0.37
PG&E Tranquility Switching Station Upgrades	Cranes	Diesel	Average	1.00	5.00	367	0.29

PG&E Tranquility Switching Station Upgrades	Rough Terrain Forklifts	Diesel	Average	2.00	4.00	96.0	0.40
PG&E Tranquility Switching Station Upgrades	Aerial Lifts	Diesel	Average	1.00	4.00	46.0	0.31
PG&E Tranquility Switching Station Upgrades	Graders	Diesel	Average	1.00	6.00	148	0.41
PG&E Tranquility Switching Station Upgrades	Rubber Tired Dozers	Diesel	Average	1.00	3.00	367	0.40
PG&E Tranquility Switching Station Upgrades	Scrapers	Diesel	Average	1.00	4.00	423	0.48
PG&E Tranquility Switching Station Upgrades	Rubber Tired Loaders	Diesel	Average	1.00	3.00	150	0.36
PG&E Tranquility Switching Station Upgrades	Excavators	Diesel	Average	1.00	4.00	36.0	0.38
Underground Work	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	6.00	84.0	0.37
Underground Work	Trenchers	Diesel	Tier 4 Final	5.00	6.00	40.0	0.50
Underground Work	Plate Compactors	Diesel	Tier 4 Final	1.00	6.00	25.0	0.43
Underground Work	Excavators	Diesel	Tier 4 Final	1.00	4.00	36.0	0.38
Underground Work	Other Construction Equipment	Diesel	Tier 4 Final	1.00	6.00	82.0	0.42
Underground Work	Tractors/Loaders/Backhoes	Diesel	Tier 3	2.00	4.00	84.0	0.37
Underground Work	Rollers	Diesel	Tier 4 Final	2.00	2.00	36.0	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Move-On	—	—	—	—
Move-On	Worker	0.00	0.25	LDA,LDT1,LDT2
Move-On	Vendor	10.0	0.25	HHDT,MHDT
Move-On	Hauling	2.00	0.25	HHDT
Move-On	Onsite truck	12.0	0.25	HHDT
Site Preparation and Grading	—	—	—	—
Site Preparation and Grading	Worker	0.00	0.25	LDA,LDT1,LDT2
Site Preparation and Grading	Vendor	10.0	0.25	HHDT,MHDT
Site Preparation and Grading	Hauling	0.00	0.25	HHDT
Site Preparation and Grading	Onsite truck	10.0	0.25	HHDT
Substation Construction	—	—	—	—
Substation Construction	Worker	0.00	0.25	LDA,LDT1,LDT2
Substation Construction	Vendor	2.00	0.25	HHDT,MHDT
Substation Construction	Hauling	2.00	0.25	HHDT
Substation Construction	Onsite truck	4.00	0.25	HHDT
Decommissioning	—	—	—	—
Decommissioning	Worker	0.00	0.25	LDA,LDT1,LDT2
Decommissioning	Vendor	10.0	0.25	HHDT,MHDT
Decommissioning	Hauling	8.00	0.25	HHDT
Decommissioning	Onsite truck	18.0	0.25	HHDT
Cleanup/Testing/Restoration	—	—	—	—
Cleanup/Testing/Restoration	Worker	0.00	0.25	LDA,LDT1,LDT2
Cleanup/Testing/Restoration	Vendor	6.00	0.25	HHDT,MHDT
Cleanup/Testing/Restoration	Hauling	0.00	0.25	HHDT
Cleanup/Testing/Restoration	Onsite truck	6.00	0.25	HHDT
System Installation - Solar Facility	—	—	—	—
System Installation - Solar Facility	Worker	0.00	0.25	LDA,LDT1,LDT2

System Installation - Solar Facility	Vendor	10.0	0.25	HHDT,MHDT
System Installation - Solar Facility	Hauling	4.00	0.25	HHDT
System Installation - Solar Facility	Onsite truck	14.0	0.25	HHDT
Gen-tie Line Installation	—	—	—	—
Gen-tie Line Installation	Worker	0.00	0.25	LDA,LDT1,LDT2
Gen-tie Line Installation	Vendor	2.00	0.25	HHDT,MHDT
Gen-tie Line Installation	Hauling	2.00	0.25	HHDT
Gen-tie Line Installation	Onsite truck	4.00	0.25	HHDT
Battery/Container Installation	—	—	—	—
Battery/Container Installation	Worker	0.00	0.25	LDA,LDT1,LDT2
Battery/Container Installation	Vendor	14.0	0.25	HHDT,MHDT
Battery/Container Installation	Hauling	4.00	0.25	HHDT
Battery/Container Installation	Onsite truck	18.0	0.25	HHDT
PG&E Tranquility Switching Station Upgrades	—	—	—	—
PG&E Tranquility Switching Station Upgrades	Worker	0.00	0.25	LDA,LDT1,LDT2
PG&E Tranquility Switching Station Upgrades	Vendor	2.00	0.25	HHDT,MHDT
PG&E Tranquility Switching Station Upgrades	Hauling	2.00	0.25	HHDT
PG&E Tranquility Switching Station Upgrades	Onsite truck	4.00	0.25	HHDT
Underground Work	—	—	—	—
Underground Work	Worker	0.00	0.25	LDA,LDT1,LDT2
Underground Work	Vendor	10.0	0.25	HHDT,MHDT
Underground Work	Hauling	0.00	0.25	HHDT
Underground Work	Onsite truck	10.0	0.25	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Move-On	—	—	—	—
Move-On	Worker	0.00	0.25	LDA,LDT1,LDT2
Move-On	Vendor	10.0	0.25	HHDT,MHDT
Move-On	Hauling	2.00	0.25	HHDT
Move-On	Onsite truck	12.0	0.25	HHDT
Site Preparation and Grading	—	—	—	—
Site Preparation and Grading	Worker	0.00	0.25	LDA,LDT1,LDT2
Site Preparation and Grading	Vendor	10.0	0.25	HHDT,MHDT
Site Preparation and Grading	Hauling	0.00	0.25	HHDT
Site Preparation and Grading	Onsite truck	10.0	0.25	HHDT
Substation Construction	—	—	—	—
Substation Construction	Worker	0.00	0.25	LDA,LDT1,LDT2
Substation Construction	Vendor	2.00	0.25	HHDT,MHDT
Substation Construction	Hauling	2.00	0.25	HHDT
Substation Construction	Onsite truck	4.00	0.25	HHDT
Decommissioning	—	—	—	—
Decommissioning	Worker	0.00	0.25	LDA,LDT1,LDT2
Decommissioning	Vendor	10.0	0.25	HHDT,MHDT
Decommissioning	Hauling	8.00	0.25	HHDT
Decommissioning	Onsite truck	18.0	0.25	HHDT
Cleanup/Testing/Restoration	—	—	—	—
Cleanup/Testing/Restoration	Worker	0.00	0.25	LDA,LDT1,LDT2
Cleanup/Testing/Restoration	Vendor	6.00	0.25	HHDT,MHDT
Cleanup/Testing/Restoration	Hauling	0.00	0.25	HHDT
Cleanup/Testing/Restoration	Onsite truck	6.00	0.25	HHDT
System Installation - Solar Facility	—	—	—	—
System Installation - Solar Facility	Worker	0.00	0.25	LDA,LDT1,LDT2

System Installation - Solar Facility	Vendor	10.0	0.25	HHDT,MHDT
System Installation - Solar Facility	Hauling	4.00	0.25	HHDT
System Installation - Solar Facility	Onsite truck	14.0	0.25	HHDT
Gen-tie Line Installation	—	—	—	—
Gen-tie Line Installation	Worker	0.00	0.25	LDA,LDT1,LDT2
Gen-tie Line Installation	Vendor	2.00	0.25	HHDT,MHDT
Gen-tie Line Installation	Hauling	2.00	0.25	HHDT
Gen-tie Line Installation	Onsite truck	4.00	0.25	HHDT
Battery/Container Installation	—	—	—	—
Battery/Container Installation	Worker	0.00	0.25	LDA,LDT1,LDT2
Battery/Container Installation	Vendor	14.0	0.25	HHDT,MHDT
Battery/Container Installation	Hauling	4.00	0.25	HHDT
Battery/Container Installation	Onsite truck	18.0	0.25	HHDT
PG&E Tranquility Switching Station Upgrades	—	—	—	—
PG&E Tranquility Switching Station Upgrades	Worker	0.00	0.25	LDA,LDT1,LDT2
PG&E Tranquility Switching Station Upgrades	Vendor	2.00	0.25	HHDT,MHDT
PG&E Tranquility Switching Station Upgrades	Hauling	2.00	0.25	HHDT
PG&E Tranquility Switching Station Upgrades	Onsite truck	4.00	0.25	HHDT
Underground Work	—	—	—	—
Underground Work	Worker	0.00	0.25	LDA,LDT1,LDT2
Underground Work	Vendor	10.0	0.25	HHDT,MHDT
Underground Work	Hauling	0.00	0.25	HHDT
Underground Work	Onsite truck	10.0	0.25	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

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)

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Decommissioning	0.00	0.00	0.00	3,000	—
Move-On	—	—	26.3	0.00	—
Cleanup/Testing/Restoration	—	—	165	0.00	—
Site Preparation and Grading	—	—	2,412	0.00	—

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
General Light Industry	0.00	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	204	0.03	< 0.005
2027	0.00	204	0.03	< 0.005
2028	0.00	204	0.03	< 0.005
2050	0.00	204	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	38.0	0.00	0.00	9,907	9.50	0.00	0.00	2,477

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	38.0	0.00	0.00	9,907	9.50	0.00	0.00	2,477

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

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	4,500	1,500	—

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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

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	71,616	204	0.0330	0.0040	0.00

5.11.2. Mitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Light Industry	71,616	204	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	693,750	10,795,333

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Light Industry	693,750	10,795,333

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Light Industry	3.72	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Light Industry	3.72	—

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

5.14.2. Mitigated

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

5.15.2. Mitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. 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	29.2	annual days of extreme heat
Extreme Precipitation	0.15	annual days with precipitation above 20 mm

Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

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

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A

Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	62.7
AQ-PM	37.8
AQ-DPM	15.2
Drinking Water	75.2
Lead Risk Housing	78.0
Pesticides	86.7
Toxic Releases	17.8
Traffic	10.3
Effect Indicators	—

CleanUp Sites	58.2
Groundwater	71.8
Haz Waste Facilities/Generators	7.35
Impaired Water Bodies	58.7
Solid Waste	0.00
Sensitive Population	—
Asthma	87.9
Cardio-vascular	57.6
Low Birth Weights	66.6
Socioeconomic Factor Indicators	—
Education	99.8
Housing	77.6
Linguistic	99.9
Poverty	99.3
Unemployment	99.6

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	0.30796869
Employed	2.014628513
Median HI	3.413319646
Education	—
Bachelor's or higher	0.808417811
High school enrollment	100
Preschool enrollment	19.49185166
Transportation	—

Auto Access	12.42140382
Active commuting	40.07442577
Social	—
2-parent households	60.47735147
Voting	1.360195047
Neighborhood	—
Alcohol availability	34.0177082
Park access	30.89952521
Retail density	1.809316053
Supermarket access	61.52957783
Tree canopy	3.27216733
Housing	—
Homeownership	22.10958553
Housing habitability	9.482869242
Low-inc homeowner severe housing cost burden	2.386757346
Low-inc renter severe housing cost burden	44.14217888
Uncrowded housing	20.37726165
Health Outcomes	—
Insured adults	2.463749519
Arthritis	0.0
Asthma ER Admissions	12.0
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	27.7

Cognitively Disabled	85.7
Physically Disabled	78.7
Heart Attack ER Admissions	7.0
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	90.3
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	14.1
Elderly	89.5
English Speaking	0.2
Foreign-born	96.1
Outdoor Workers	0.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	74.7
Traffic Density	9.6
Traffic Access	0.0
Other Indices	—
Hardship	99.4
Other Decision Support	—

2016 Voting	9.1

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	85.0
Healthy Places Index Score for Project Location (b)	1.00
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Based on applicant provided information.
Construction: Off-Road Equipment	Based on applicant provided information.
Construction: Trips and VMT	Based on applicant provided information.
Operations: Vehicle Data	16 workers for operations and maintenance monday through friday.
Operations: Landscape Equipment	No landscaping equipment.
Operations: Energy Use	O&M building is all-electric.

Operations: Water and Waste Water	outdoor water use for panel washing. This also amortized the construction and decommissioning water use.
Construction: Dust From Material Movement	Based on the project description.
Operations: Fleet Mix	Based on worker and water delivery mix.

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** Lakes Environmental AERMOD MPI
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** AERMOD VIEW VER. 13.0.0
** LAKES ENVIRONMENTAL SOFTWARE INC.
** DATE: 4/16/2025
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   ERRORFIL "HEARTLAND HYDROGEN.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 = 0.6519421173
** VERTICAL DIMENSION = 6.80
** SZINIT = 3.16
** NODES = 33
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** 731195.203, 4058900.626, 65.26, 3.40, 4.00
** 732001.058, 4058926.622, 62.85, 3.40, 4.00
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** 733196.842, 4057384.233, 60.77, 3.40, 4.00
** 733222.837, 4056855.661, 60.87, 3.40, 4.00
** 733387.474, 4056864.327, 60.47, 3.40, 4.00
** 733344.149, 4060382.359, 59.15, 3.40, 4.00
** 731333.845, 4060313.038, 65.42, 3.40, 4.00
** 731368.505, 4059039.268, 64.65, 3.40, 4.00
** 732148.364, 4059056.598, 62.39, 3.40, 4.00
** 732165.695, 4057470.884, 63.41, 3.40, 4.00
** 733222.837, 4057522.875, 60.66, 3.40, 4.00
** 733170.847, 4060217.722, 59.49, 3.40, 4.00
** 731498.482, 4060165.731, 64.96, 3.40, 4.00
** 731524.477, 4059221.235, 64.09, 3.40, 4.00
** 732313.001, 4059229.900, 61.66, 3.40, 4.00
** 732356.327, 4057644.186, 62.93, 3.40, 4.00
** 733014.875, 4057687.512, 61.16, 3.40, 4.00
** 732962.884, 4060035.755, 59.86, 3.40, 4.00
** 731663.119, 4060001.094, 63.98, 3.40, 4.00
** 731689.114, 4059377.207, 63.62, 3.40, 4.00
** 732486.304, 4059394.537, 61.21, 3.40, 4.00
** 732529.629, 4057843.483, 62.29, 3.40, 4.00
** 732858.903, 4057869.479, 61.46, 3.40, 4.00
** 732798.247, 4059879.783, 60.32, 3.40, 4.00
** 731862.416, 4059879.783, 63.16, 3.40, 4.00
** 731871.081, 4059507.184, 63.16, 3.40, 4.00
** 732642.275, 4059524.514, 60.76, 3.40, 4.00
** 732642.275, 4059741.141, 60.76, 3.40, 4.00
** 732001.058, 4059732.476, 62.61, 3.40, 4.00
** 732001.058, 4059637.160, 62.64, 3.40, 4.00
** 732503.634, 4059628.495, 61.13, 3.40, 4.00
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   LOCATION L0000002     VOLUME   731152.268 4060317.474 66.12
   LOCATION L0000003     VOLUME   731152.529 4060308.878 66.15
   LOCATION L0000004     VOLUME   731152.789 4060300.282 66.18
   LOCATION L0000005     VOLUME   731153.050 4060291.686 66.21
   LOCATION L0000006     VOLUME   731153.310 4060283.090 66.23
   LOCATION L0000007     VOLUME   731153.571 4060274.494 66.24
   LOCATION L0000008     VOLUME   731153.831 4060265.898 66.26
   LOCATION L0000009     VOLUME   731154.092 4060257.302 66.27
   LOCATION L0000010     VOLUME   731154.352 4060248.706 66.30
   LOCATION L0000011     VOLUME   731154.613 4060240.110 66.32
   LOCATION L0000012     VOLUME   731154.873 4060231.514 66.34
   LOCATION L0000013     VOLUME   731155.134 4060222.918 66.36
   LOCATION L0000014     VOLUME   731155.394 4060214.322 66.36
   LOCATION L0000015     VOLUME   731155.654 4060205.726 66.36
   LOCATION L0000016     VOLUME   731155.915 4060197.130 66.36
   LOCATION L0000017     VOLUME   731156.175 4060188.534 66.36
   LOCATION L0000018     VOLUME   731156.436 4060179.938 66.36
   LOCATION L0000019     VOLUME   731156.696 4060171.341 66.36
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LOCATION L0000022 VOLUME 731157.478 4060145.553 66.36
LOCATION L0000023 VOLUME 731157.738 4060136.957 66.36
LOCATION L0000024 VOLUME 731157.999 4060128.361 66.36
LOCATION L0000025 VOLUME 731158.259 4060119.765 66.36
LOCATION L0000026 VOLUME 731158.520 4060111.169 66.36
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LOCATION L0000028 VOLUME 731159.041 4060093.977 66.33
LOCATION L0000029 VOLUME 731159.301 4060085.381 66.30
LOCATION L0000030 VOLUME 731159.562 4060076.785 66.27
LOCATION L0000031 VOLUME 731159.822 4060068.189 66.25
LOCATION L0000032 VOLUME 731160.083 4060059.593 66.21
LOCATION L0000033 VOLUME 731160.343 4060050.997 66.18
LOCATION L0000034 VOLUME 731160.604 4060042.401 66.15
LOCATION L0000035 VOLUME 731160.864 4060033.805 66.10
LOCATION L0000036 VOLUME 731161.125 4060025.209 66.05
LOCATION L0000037 VOLUME 731161.385 4060016.613 66.00
LOCATION L0000038 VOLUME 731161.646 4060008.016 65.96
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LOCATION L0000042 VOLUME 731162.688 4059973.632 65.85
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LOCATION L0000060 VOLUME 731167.376 4059818.903 65.42
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LOCATION L0000258 VOLUME 731978.897 4058925.907 62.90
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LOCATION L0000265 VOLUME 732001.464 4058888.596 62.86
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LOCATION L0000268 VOLUME 732001.740 4058862.798 62.88
LOCATION L0000269 VOLUME 732001.832 4058854.198 62.89

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LOCATION L0000273 VOLUME 732002.200 4058819.800 62.92
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LOCATION L0000281 VOLUME 732002.936 4058751.004 62.96
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LOCATION L0000284 VOLUME 732003.212 4058725.206 62.98
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LOCATION L0000287 VOLUME 732003.488 4058699.407 63.02
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LOCATION L0000290 VOLUME 732003.764 4058673.608 63.02
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LOCATION L0004239 VOLUME 732146.171 4059634.658 61.96
LOCATION L0004240 VOLUME 732154.770 4059634.510 61.95
LOCATION L0004241 VOLUME 732163.369 4059634.362 61.93
LOCATION L0004242 VOLUME 732171.967 4059634.213 61.90
LOCATION L0004243 VOLUME 732180.566 4059634.065 61.85
LOCATION L0004244 VOLUME 732189.165 4059633.917 61.80
LOCATION L0004245 VOLUME 732197.764 4059633.769 61.76
LOCATION L0004246 VOLUME 732206.362 4059633.620 61.75
LOCATION L0004247 VOLUME 732214.961 4059633.472 61.73
LOCATION L0004248 VOLUME 732223.560 4059633.324 61.71
LOCATION L0004249 VOLUME 732232.158 4059633.176 61.69
LOCATION L0004250 VOLUME 732240.757 4059633.027 61.67
LOCATION L0004251 VOLUME 732249.356 4059632.879 61.65
LOCATION L0004252 VOLUME 732257.955 4059632.731 61.64
LOCATION L0004253 VOLUME 732266.553 4059632.583 61.63
LOCATION L0004254 VOLUME 732275.152 4059632.434 61.61
LOCATION L0004255 VOLUME 732283.751 4059632.286 61.59
LOCATION L0004256 VOLUME 732292.349 4059632.138 61.56
LOCATION L0004257 VOLUME 732300.948 4059631.990 61.53
LOCATION L0004258 VOLUME 732309.547 4059631.841 61.49
LOCATION L0004259 VOLUME 732318.146 4059631.693 61.46
LOCATION L0004260 VOLUME 732326.744 4059631.545 61.46
LOCATION L0004261 VOLUME 732335.343 4059631.397 61.46
LOCATION L0004262 VOLUME 732343.942 4059631.248 61.46
LOCATION L0004263 VOLUME 732352.541 4059631.100 61.42
LOCATION L0004264 VOLUME 732361.139 4059630.952 61.39
LOCATION L0004265 VOLUME 732369.738 4059630.804 61.36
LOCATION L0004266 VOLUME 732378.337 4059630.655 61.36
LOCATION L0004267 VOLUME 732386.935 4059630.507 61.36
LOCATION L0004268 VOLUME 732395.534 4059630.359 61.35
LOCATION L0004269 VOLUME 732404.133 4059630.211 61.31

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   LOCATION L0004270     VOLUME   732412.732 4059630.062 61.28
   LOCATION L0004271     VOLUME   732421.330 4059629.914 61.26
   LOCATION L0004272     VOLUME   732429.929 4059629.766 61.26
   LOCATION L0004273     VOLUME   732438.528 4059629.618 61.26
   LOCATION L0004274     VOLUME   732447.126 4059629.469 61.24
   LOCATION L0004275     VOLUME   732455.725 4059629.321 61.21
   LOCATION L0004276     VOLUME   732464.324 4059629.173 61.17
   LOCATION L0004277     VOLUME   732472.923 4059629.024 61.16
   LOCATION L0004278     VOLUME   732481.521 4059628.876 61.16
   LOCATION L0004279     VOLUME   732490.120 4059628.728 61.16
   LOCATION L0004280     VOLUME   732498.719 4059628.580 61.13
** END OF LINE VOLUME SOURCE ID = SLINE1
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE2
** DESCRSRC
** PREFIX
** LENGTH OF SIDE = 8.60
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.0239146992
** VERTICAL DIMENSION = 6.80
** SZINIT = 3.16
** NODES = 2
** 732650.941, 4059359.877, 60.84, 3.40, 4.00
** 732702.931, 4058008.120, 61.78, 3.40, 4.00
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   LOCATION L0004281     VOLUME   732651.106 4059355.580 60.85
   LOCATION L0004282     VOLUME   732651.436 4059346.986 60.85
   LOCATION L0004283     VOLUME   732651.767 4059338.393 60.85
   LOCATION L0004284     VOLUME   732652.097 4059329.799 60.87
   LOCATION L0004285     VOLUME   732652.428 4059321.205 60.89
   LOCATION L0004286     VOLUME   732652.758 4059312.612 60.90
   LOCATION L0004287     VOLUME   732653.089 4059304.018 60.92
   LOCATION L0004288     VOLUME   732653.419 4059295.424 60.93
   LOCATION L0004289     VOLUME   732653.750 4059286.831 60.94
   LOCATION L0004290     VOLUME   732654.081 4059278.237 60.95
   LOCATION L0004291     VOLUME   732654.411 4059269.643 60.95
   LOCATION L0004292     VOLUME   732654.742 4059261.050 60.95
   LOCATION L0004293     VOLUME   732655.072 4059252.456 60.95
   LOCATION L0004294     VOLUME   732655.403 4059243.863 60.95
   LOCATION L0004295     VOLUME   732655.733 4059235.269 60.96
   LOCATION L0004296     VOLUME   732656.064 4059226.675 60.97
   LOCATION L0004297     VOLUME   732656.394 4059218.082 60.97
   LOCATION L0004298     VOLUME   732656.725 4059209.488 60.99
   LOCATION L0004299     VOLUME   732657.055 4059200.894 61.01
   LOCATION L0004300     VOLUME   732657.386 4059192.301 61.03
   LOCATION L0004301     VOLUME   732657.716 4059183.707 61.04
   LOCATION L0004302     VOLUME   732658.047 4059175.113 61.05
   LOCATION L0004303     VOLUME   732658.377 4059166.520 61.05
   LOCATION L0004304     VOLUME   732658.708 4059157.926 61.05
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LOCATION L0004305 VOLUME 732659.038 4059149.332 61.05
LOCATION L0004306 VOLUME 732659.369 4059140.739 61.05
LOCATION L0004307 VOLUME 732659.699 4059132.145 61.05
LOCATION L0004308 VOLUME 732660.030 4059123.551 61.06
LOCATION L0004309 VOLUME 732660.361 4059114.958 61.08
LOCATION L0004310 VOLUME 732660.691 4059106.364 61.11
LOCATION L0004311 VOLUME 732661.022 4059097.771 61.13
LOCATION L0004312 VOLUME 732661.352 4059089.177 61.14
LOCATION L0004313 VOLUME 732661.683 4059080.583 61.14
LOCATION L0004314 VOLUME 732662.013 4059071.990 61.14
LOCATION L0004315 VOLUME 732662.344 4059063.396 61.14
LOCATION L0004316 VOLUME 732662.674 4059054.802 61.15
LOCATION L0004317 VOLUME 732663.005 4059046.209 61.15
LOCATION L0004318 VOLUME 732663.335 4059037.615 61.16
LOCATION L0004319 VOLUME 732663.666 4059029.021 61.17
LOCATION L0004320 VOLUME 732663.996 4059020.428 61.18
LOCATION L0004321 VOLUME 732664.327 4059011.834 61.20
LOCATION L0004322 VOLUME 732664.657 4059003.240 61.21
LOCATION L0004323 VOLUME 732664.988 4058994.647 61.22
LOCATION L0004324 VOLUME 732665.318 4058986.053 61.23
LOCATION L0004325 VOLUME 732665.649 4058977.459 61.23
LOCATION L0004326 VOLUME 732665.979 4058968.866 61.24
LOCATION L0004327 VOLUME 732666.310 4058960.272 61.24
LOCATION L0004328 VOLUME 732666.640 4058951.679 61.25
LOCATION L0004329 VOLUME 732666.971 4058943.085 61.26
LOCATION L0004330 VOLUME 732667.302 4058934.491 61.26
LOCATION L0004331 VOLUME 732667.632 4058925.898 61.27
LOCATION L0004332 VOLUME 732667.963 4058917.304 61.28
LOCATION L0004333 VOLUME 732668.293 4058908.710 61.29
LOCATION L0004334 VOLUME 732668.624 4058900.117 61.30
LOCATION L0004335 VOLUME 732668.954 4058891.523 61.31
LOCATION L0004336 VOLUME 732669.285 4058882.929 61.32
LOCATION L0004337 VOLUME 732669.615 4058874.336 61.33
LOCATION L0004338 VOLUME 732669.946 4058865.742 61.34
LOCATION L0004339 VOLUME 732670.276 4058857.148 61.35
LOCATION L0004340 VOLUME 732670.607 4058848.555 61.35
LOCATION L0004341 VOLUME 732670.937 4058839.961 61.36
LOCATION L0004342 VOLUME 732671.268 4058831.368 61.36
LOCATION L0004343 VOLUME 732671.598 4058822.774 61.36
LOCATION L0004344 VOLUME 732671.929 4058814.180 61.36
LOCATION L0004345 VOLUME 732672.259 4058805.587 61.36
LOCATION L0004346 VOLUME 732672.590 4058796.993 61.36
LOCATION L0004347 VOLUME 732672.920 4058788.399 61.36
LOCATION L0004348 VOLUME 732673.251 4058779.806 61.37
LOCATION L0004349 VOLUME 732673.582 4058771.212 61.39
LOCATION L0004350 VOLUME 732673.912 4058762.618 61.41
LOCATION L0004351 VOLUME 732674.243 4058754.025 61.42
LOCATION L0004352 VOLUME 732674.573 4058745.431 61.42
LOCATION L0004353 VOLUME 732674.904 4058736.837 61.42
LOCATION L0004354 VOLUME 732675.234 4058728.244 61.42

LOCATION L0004355 VOLUME 732675.565 4058719.650 61.42
LOCATION L0004356 VOLUME 732675.895 4058711.056 61.43
LOCATION L0004357 VOLUME 732676.226 4058702.463 61.43
LOCATION L0004358 VOLUME 732676.556 4058693.869 61.43
LOCATION L0004359 VOLUME 732676.887 4058685.276 61.44
LOCATION L0004360 VOLUME 732677.217 4058676.682 61.45
LOCATION L0004361 VOLUME 732677.548 4058668.088 61.45
LOCATION L0004362 VOLUME 732677.878 4058659.495 61.46
LOCATION L0004363 VOLUME 732678.209 4058650.901 61.48
LOCATION L0004364 VOLUME 732678.539 4058642.307 61.49
LOCATION L0004365 VOLUME 732678.870 4058633.714 61.50
LOCATION L0004366 VOLUME 732679.200 4058625.120 61.50
LOCATION L0004367 VOLUME 732679.531 4058616.526 61.50
LOCATION L0004368 VOLUME 732679.861 4058607.933 61.50
LOCATION L0004369 VOLUME 732680.192 4058599.339 61.50
LOCATION L0004370 VOLUME 732680.523 4058590.745 61.50
LOCATION L0004371 VOLUME 732680.853 4058582.152 61.51
LOCATION L0004372 VOLUME 732681.184 4058573.558 61.51
LOCATION L0004373 VOLUME 732681.514 4058564.964 61.51
LOCATION L0004374 VOLUME 732681.845 4058556.371 61.51
LOCATION L0004375 VOLUME 732682.175 4058547.777 61.51
LOCATION L0004376 VOLUME 732682.506 4058539.184 61.51
LOCATION L0004377 VOLUME 732682.836 4058530.590 61.52
LOCATION L0004378 VOLUME 732683.167 4058521.996 61.52
LOCATION L0004379 VOLUME 732683.497 4058513.403 61.53
LOCATION L0004380 VOLUME 732683.828 4058504.809 61.53
LOCATION L0004381 VOLUME 732684.158 4058496.215 61.54
LOCATION L0004382 VOLUME 732684.489 4058487.622 61.54
LOCATION L0004383 VOLUME 732684.819 4058479.028 61.55
LOCATION L0004384 VOLUME 732685.150 4058470.434 61.55
LOCATION L0004385 VOLUME 732685.480 4058461.841 61.56
LOCATION L0004386 VOLUME 732685.811 4058453.247 61.56
LOCATION L0004387 VOLUME 732686.141 4058444.653 61.57
LOCATION L0004388 VOLUME 732686.472 4058436.060 61.58
LOCATION L0004389 VOLUME 732686.803 4058427.466 61.59
LOCATION L0004390 VOLUME 732687.133 4058418.872 61.60
LOCATION L0004391 VOLUME 732687.464 4058410.279 61.60
LOCATION L0004392 VOLUME 732687.794 4058401.685 61.60
LOCATION L0004393 VOLUME 732688.125 4058393.092 61.60
LOCATION L0004394 VOLUME 732688.455 4058384.498 61.60
LOCATION L0004395 VOLUME 732688.786 4058375.904 61.60
LOCATION L0004396 VOLUME 732689.116 4058367.311 61.60
LOCATION L0004397 VOLUME 732689.447 4058358.717 61.60
LOCATION L0004398 VOLUME 732689.777 4058350.123 61.60
LOCATION L0004399 VOLUME 732690.108 4058341.530 61.60
LOCATION L0004400 VOLUME 732690.438 4058332.936 61.60
LOCATION L0004401 VOLUME 732690.769 4058324.342 61.60
LOCATION L0004402 VOLUME 732691.099 4058315.749 61.61
LOCATION L0004403 VOLUME 732691.430 4058307.155 61.61
LOCATION L0004404 VOLUME 732691.760 4058298.561 61.61

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   LOCATION L0004405     VOLUME   732692.091 4058289.968 61.61
   LOCATION L0004406     VOLUME   732692.421 4058281.374 61.61
   LOCATION L0004407     VOLUME   732692.752 4058272.781 61.61
   LOCATION L0004408     VOLUME   732693.082 4058264.187 61.61
   LOCATION L0004409     VOLUME   732693.413 4058255.593 61.62
   LOCATION L0004410     VOLUME   732693.744 4058247.000 61.64
   LOCATION L0004411     VOLUME   732694.074 4058238.406 61.65
   LOCATION L0004412     VOLUME   732694.405 4058229.812 61.66
   LOCATION L0004413     VOLUME   732694.735 4058221.219 61.67
   LOCATION L0004414     VOLUME   732695.066 4058212.625 61.67
   LOCATION L0004415     VOLUME   732695.396 4058204.031 61.68
   LOCATION L0004416     VOLUME   732695.727 4058195.438 61.68
   LOCATION L0004417     VOLUME   732696.057 4058186.844 61.69
   LOCATION L0004418     VOLUME   732696.388 4058178.250 61.69
   LOCATION L0004419     VOLUME   732696.718 4058169.657 61.70
   LOCATION L0004420     VOLUME   732697.049 4058161.063 61.69
   LOCATION L0004421     VOLUME   732697.379 4058152.469 61.69
   LOCATION L0004422     VOLUME   732697.710 4058143.876 61.69
   LOCATION L0004423     VOLUME   732698.040 4058135.282 61.69
   LOCATION L0004424     VOLUME   732698.371 4058126.689 61.69
   LOCATION L0004425     VOLUME   732698.701 4058118.095 61.69
   LOCATION L0004426     VOLUME   732699.032 4058109.501 61.69
   LOCATION L0004427     VOLUME   732699.362 4058100.908 61.70
   LOCATION L0004428     VOLUME   732699.693 4058092.314 61.72
   LOCATION L0004429     VOLUME   732700.023 4058083.720 61.73
   LOCATION L0004430     VOLUME   732700.354 4058075.127 61.74
   LOCATION L0004431     VOLUME   732700.685 4058066.533 61.75
   LOCATION L0004432     VOLUME   732701.015 4058057.939 61.75
   LOCATION L0004433     VOLUME   732701.346 4058049.346 61.76
   LOCATION L0004434     VOLUME   732701.676 4058040.752 61.77
   LOCATION L0004435     VOLUME   732702.007 4058032.158 61.77
   LOCATION L0004436     VOLUME   732702.337 4058023.565 61.78
   LOCATION L0004437     VOLUME   732702.668 4058014.971 61.78
** END OF LINE VOLUME SOURCE ID = SLINE2
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** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE3
** DESCRSRC
** PREFIX
** LENGTH OF SIDE = 8.60
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.2400609292
** VERTICAL DIMENSION = 6.80
** SZINIT = 3.16
** NODES = 22
** 732858.903, 4056708.355, 61.79, 3.40, 4.00
** 732876.233, 4056309.760, 61.62, 3.40, 4.00
** 732079.044, 4056266.434, 63.42, 3.40, 4.00
** 732105.039, 4055287.278, 62.66, 3.40, 4.00
** 733439.465, 4055313.273, 60.42, 3.40, 4.00
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** 733387.474, 4056725.685, 60.48, 3.40, 4.00
** 733014.875, 4056708.355, 61.38, 3.40, 4.00
** 733040.870, 4056171.118, 61.30, 3.40, 4.00
** 732252.346, 4056127.793, 62.97, 3.40, 4.00
** 732261.011, 4055469.245, 62.53, 3.40, 4.00
** 733222.837, 4055486.575, 60.84, 3.40, 4.00
** 733309.489, 4055495.240, 60.64, 3.40, 4.00
** 733257.498, 4056595.708, 60.77, 3.40, 4.00
** 733101.526, 4056587.043, 61.17, 3.40, 4.00
** 733118.856, 4056032.477, 61.13, 3.40, 4.00
** 732390.987, 4056015.146, 62.61, 3.40, 4.00
** 732382.322, 4055590.556, 62.33, 3.40, 4.00
** 733153.517, 4055616.551, 60.94, 3.40, 4.00
** 733136.186, 4055902.500, 61.04, 3.40, 4.00
** 732555.624, 4055876.505, 62.22, 3.40, 4.00
** 732572.955, 4055703.203, 62.04, 3.40, 4.00
** 733014.875, 4055720.533, 61.24, 3.40, 4.00
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   LOCATION L0004439     VOLUME   732859.463 4056695.467 61.73
   LOCATION L0004440     VOLUME   732859.837 4056686.875 61.73
   LOCATION L0004441     VOLUME   732860.211 4056678.283 61.73
   LOCATION L0004442     VOLUME   732860.584 4056669.691 61.73
   LOCATION L0004443     VOLUME   732860.958 4056661.099 61.73
   LOCATION L0004444     VOLUME   732861.331 4056652.507 61.73
   LOCATION L0004445     VOLUME   732861.705 4056643.916 61.73
   LOCATION L0004446     VOLUME   732862.078 4056635.324 61.73
   LOCATION L0004447     VOLUME   732862.452 4056626.732 61.73
   LOCATION L0004448     VOLUME   732862.825 4056618.140 61.72
   LOCATION L0004449     VOLUME   732863.199 4056609.548 61.72
   LOCATION L0004450     VOLUME   732863.573 4056600.956 61.72
   LOCATION L0004451     VOLUME   732863.946 4056592.364 61.72
   LOCATION L0004452     VOLUME   732864.320 4056583.772 61.72
   LOCATION L0004453     VOLUME   732864.693 4056575.180 61.72
   LOCATION L0004454     VOLUME   732865.067 4056566.589 61.72
   LOCATION L0004455     VOLUME   732865.440 4056557.997 61.71
   LOCATION L0004456     VOLUME   732865.814 4056549.405 61.71
   LOCATION L0004457     VOLUME   732866.187 4056540.813 61.71
   LOCATION L0004458     VOLUME   732866.561 4056532.221 61.70
   LOCATION L0004459     VOLUME   732866.935 4056523.629 61.70
   LOCATION L0004460     VOLUME   732867.308 4056515.037 61.69
   LOCATION L0004461     VOLUME   732867.682 4056506.445 61.69
   LOCATION L0004462     VOLUME   732868.055 4056497.854 61.68
   LOCATION L0004463     VOLUME   732868.429 4056489.262 61.67
   LOCATION L0004464     VOLUME   732868.802 4056480.670 61.66
   LOCATION L0004465     VOLUME   732869.176 4056472.078 61.65
   LOCATION L0004466     VOLUME   732869.550 4056463.486 61.65
   LOCATION L0004467     VOLUME   732869.923 4056454.894 61.64
   LOCATION L0004468     VOLUME   732870.297 4056446.302 61.63
   LOCATION L0004469     VOLUME   732870.670 4056437.710 61.63
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LOCATION L0004470 VOLUME 732871.044 4056429.118 61.63
LOCATION L0004471 VOLUME 732871.417 4056420.527 61.63
LOCATION L0004472 VOLUME 732871.791 4056411.935 61.62
LOCATION L0004473 VOLUME 732872.164 4056403.343 61.62
LOCATION L0004474 VOLUME 732872.538 4056394.751 61.62
LOCATION L0004475 VOLUME 732872.912 4056386.159 61.62
LOCATION L0004476 VOLUME 732873.285 4056377.567 61.62
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LOCATION L0004483 VOLUME 732875.900 4056317.424 61.63
LOCATION L0004484 VOLUME 732875.306 4056309.709 61.63
LOCATION L0004485 VOLUME 732866.719 4056309.243 61.66
LOCATION L0004486 VOLUME 732858.131 4056308.776 61.70
LOCATION L0004487 VOLUME 732849.544 4056308.309 61.71
LOCATION L0004488 VOLUME 732840.957 4056307.843 61.71
LOCATION L0004489 VOLUME 732832.369 4056307.376 61.71
LOCATION L0004490 VOLUME 732823.782 4056306.909 61.74
LOCATION L0004491 VOLUME 732815.195 4056306.443 61.77
LOCATION L0004492 VOLUME 732806.607 4056305.976 61.81
LOCATION L0004493 VOLUME 732798.020 4056305.509 61.82
LOCATION L0004494 VOLUME 732789.433 4056305.042 61.83
LOCATION L0004495 VOLUME 732780.845 4056304.576 61.85
LOCATION L0004496 VOLUME 732772.258 4056304.109 61.87
LOCATION L0004497 VOLUME 732763.671 4056303.642 61.89
LOCATION L0004498 VOLUME 732755.083 4056303.176 61.91
LOCATION L0004499 VOLUME 732746.496 4056302.709 61.92
LOCATION L0004500 VOLUME 732737.909 4056302.242 61.93
LOCATION L0004501 VOLUME 732729.321 4056301.776 61.95
LOCATION L0004502 VOLUME 732720.734 4056301.309 61.97
LOCATION L0004503 VOLUME 732712.147 4056300.842 61.99
LOCATION L0004504 VOLUME 732703.559 4056300.375 62.02
LOCATION L0004505 VOLUME 732694.972 4056299.909 62.05
LOCATION L0004506 VOLUME 732686.385 4056299.442 62.09
LOCATION L0004507 VOLUME 732677.798 4056298.975 62.10
LOCATION L0004508 VOLUME 732669.210 4056298.509 62.10
LOCATION L0004509 VOLUME 732660.623 4056298.042 62.10
LOCATION L0004510 VOLUME 732652.036 4056297.575 62.12
LOCATION L0004511 VOLUME 732643.448 4056297.109 62.16
LOCATION L0004512 VOLUME 732634.861 4056296.642 62.19
LOCATION L0004513 VOLUME 732626.274 4056296.175 62.21
LOCATION L0004514 VOLUME 732617.686 4056295.708 62.22
LOCATION L0004515 VOLUME 732609.099 4056295.242 62.23
LOCATION L0004516 VOLUME 732600.512 4056294.775 62.25
LOCATION L0004517 VOLUME 732591.924 4056294.308 62.28
LOCATION L0004518 VOLUME 732583.337 4056293.842 62.30
LOCATION L0004519 VOLUME 732574.750 4056293.375 62.33

LOCATION L0004520 VOLUME 732566.162 4056292.908 62.36
LOCATION L0004521 VOLUME 732557.575 4056292.441 62.38
LOCATION L0004522 VOLUME 732548.988 4056291.975 62.39
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** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE4
** DESCRSRC
** PREFIX
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** LENGTH OF SIDE = 8.60
** CONFIGURATION = ADJACENT
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** VERTICAL DIMENSION = 6.80
** SZINIT = 3.16
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** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE5
** DESCRSRC GEN TIE
** PREFIX
** LENGTH OF SIDE = 8.60
** CONFIGURATION = ADJACENT
** EMISSION RATE = 1.0
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LOCATION L0006772 VOLUME 731222.837 4052937.763 67.46
LOCATION L0006773 VOLUME 731223.044 4052929.165 67.49
LOCATION L0006774 VOLUME 731223.252 4052920.568 67.51
LOCATION L0006775 VOLUME 731223.459 4052911.970 67.54

LOCATION L0006776 VOLUME 731223.667 4052903.373 67.57
LOCATION L0006777 VOLUME 731223.875 4052894.775 67.60
LOCATION L0006778 VOLUME 731224.082 4052886.178 67.63
LOCATION L0006779 VOLUME 731224.290 4052877.580 67.65
LOCATION L0006780 VOLUME 731224.497 4052868.983 67.66
LOCATION L0006781 VOLUME 731224.705 4052860.385 67.67
LOCATION L0006782 VOLUME 731224.912 4052851.788 67.70
LOCATION L0006783 VOLUME 731225.120 4052843.190 67.72
LOCATION L0006784 VOLUME 731226.210 4052835.508 67.74
LOCATION L0006785 VOLUME 731234.809 4052835.612 67.72
LOCATION L0006786 VOLUME 731243.409 4052835.715 67.71
LOCATION L0006787 VOLUME 731252.008 4052835.819 67.71
LOCATION L0006788 VOLUME 731260.607 4052835.922 67.70
LOCATION L0006789 VOLUME 731269.207 4052836.026 67.67
LOCATION L0006790 VOLUME 731277.806 4052836.130 67.64
LOCATION L0006791 VOLUME 731286.406 4052836.233 67.62
LOCATION L0006792 VOLUME 731295.005 4052836.337 67.61
LOCATION L0006793 VOLUME 731303.604 4052836.440 67.61
LOCATION L0006794 VOLUME 731312.204 4052836.544 67.59
LOCATION L0006795 VOLUME 731320.803 4052836.648 67.56
LOCATION L0006796 VOLUME 731329.402 4052836.751 67.53
LOCATION L0006797 VOLUME 731338.002 4052836.855 67.52
LOCATION L0006798 VOLUME 731346.601 4052836.959 67.51
LOCATION L0006799 VOLUME 731355.201 4052837.062 67.51
LOCATION L0006800 VOLUME 731363.800 4052837.166 67.49
LOCATION L0006801 VOLUME 731372.399 4052837.269 67.46
LOCATION L0006802 VOLUME 731380.999 4052837.373 67.43
LOCATION L0006803 VOLUME 731389.598 4052837.477 67.42
LOCATION L0006804 VOLUME 731398.197 4052837.580 67.42
LOCATION L0006805 VOLUME 731406.797 4052837.684 67.41
LOCATION L0006806 VOLUME 731415.396 4052837.787 67.38
LOCATION L0006807 VOLUME 731423.996 4052837.891 67.35
LOCATION L0006808 VOLUME 731432.595 4052837.995 67.32
LOCATION L0006809 VOLUME 731441.194 4052838.098 67.31
LOCATION L0006810 VOLUME 731449.794 4052838.202 67.30
LOCATION L0006811 VOLUME 731458.393 4052838.305 67.29
LOCATION L0006812 VOLUME 731466.992 4052838.409 67.27
LOCATION L0006813 VOLUME 731475.592 4052838.513 67.24
LOCATION L0006814 VOLUME 731484.191 4052838.616 67.21
LOCATION L0006815 VOLUME 731492.791 4052838.720 67.18
LOCATION L0006816 VOLUME 731501.390 4052838.823 67.15
LOCATION L0006817 VOLUME 731509.989 4052838.927 67.13
LOCATION L0006818 VOLUME 731518.589 4052839.031 67.13
LOCATION L0006819 VOLUME 731527.188 4052839.134 67.13
LOCATION L0006820 VOLUME 731535.787 4052839.238 67.11
LOCATION L0006821 VOLUME 731544.387 4052839.341 67.08
LOCATION L0006822 VOLUME 731552.986 4052839.445 67.04
LOCATION L0006823 VOLUME 731561.586 4052839.549 67.02
LOCATION L0006824 VOLUME 731570.185 4052839.652 67.02
LOCATION L0006825 VOLUME 731578.784 4052839.756 67.02

LOCATION L0006826 VOLUME 731587.384 4052839.859 67.00
LOCATION L0006827 VOLUME 731595.983 4052839.963 66.97
LOCATION L0006828 VOLUME 731604.582 4052840.067 66.94
LOCATION L0006829 VOLUME 731613.182 4052840.170 66.91
LOCATION L0006830 VOLUME 731621.781 4052840.274 66.88
LOCATION L0006831 VOLUME 731630.381 4052840.378 66.85
LOCATION L0006832 VOLUME 731638.980 4052840.481 66.84
LOCATION L0006833 VOLUME 731647.579 4052840.585 66.82
LOCATION L0006834 VOLUME 731656.179 4052840.688 66.80
LOCATION L0006835 VOLUME 731664.778 4052840.792 66.78
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LOCATION L0006837 VOLUME 731681.977 4052840.999 66.73
LOCATION L0006838 VOLUME 731690.576 4052841.103 66.71
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LOCATION L0006842 VOLUME 731724.974 4052841.517 66.63
LOCATION L0006843 VOLUME 731733.573 4052841.621 66.60
LOCATION L0006844 VOLUME 731742.172 4052841.724 66.57
LOCATION L0006845 VOLUME 731750.772 4052841.828 66.55
LOCATION L0006846 VOLUME 731759.371 4052841.932 66.53
LOCATION L0006847 VOLUME 731767.971 4052842.035 66.50
LOCATION L0006848 VOLUME 731776.570 4052842.139 66.48
LOCATION L0006849 VOLUME 731785.169 4052842.242 66.47
LOCATION L0006850 VOLUME 731793.769 4052842.346 66.46
LOCATION L0006851 VOLUME 731802.368 4052842.450 66.45
LOCATION L0006852 VOLUME 731810.967 4052842.553 66.42
LOCATION L0006853 VOLUME 731819.567 4052842.657 66.39
LOCATION L0006854 VOLUME 731828.166 4052842.760 66.36
LOCATION L0006855 VOLUME 731836.766 4052842.864 66.35
LOCATION L0006856 VOLUME 731845.365 4052842.968 66.34
LOCATION L0006857 VOLUME 731853.964 4052843.071 66.34
LOCATION L0006858 VOLUME 731862.564 4052843.175 66.33
LOCATION L0006859 VOLUME 731871.163 4052843.279 66.32
LOCATION L0006860 VOLUME 731879.762 4052843.382 66.30
LOCATION L0006861 VOLUME 731888.362 4052843.486 66.28
LOCATION L0006862 VOLUME 731896.961 4052843.589 66.26
LOCATION L0006863 VOLUME 731905.561 4052843.693 66.24
LOCATION L0006864 VOLUME 731914.160 4052843.797 66.24
LOCATION L0006865 VOLUME 731922.759 4052843.900 66.24
LOCATION L0006866 VOLUME 731931.359 4052844.004 66.25
LOCATION L0006867 VOLUME 731939.958 4052844.107 66.28
LOCATION L0006868 VOLUME 731948.557 4052844.211 66.32
LOCATION L0006869 VOLUME 731957.157 4052844.315 66.34
LOCATION L0006870 VOLUME 731965.756 4052844.418 66.34
LOCATION L0006871 VOLUME 731974.356 4052844.522 66.34
LOCATION L0006872 VOLUME 731982.955 4052844.625 66.33
LOCATION L0006873 VOLUME 731991.554 4052844.729 66.30
LOCATION L0006874 VOLUME 732000.154 4052844.833 66.26
LOCATION L0006875 VOLUME 732008.753 4052844.936 66.24

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   LOCATION L0006876     VOLUME   732017.352 4052845.040 66.22
   LOCATION L0006877     VOLUME   732025.952 4052845.143 66.20
   LOCATION L0006878     VOLUME   732034.551 4052845.247 66.18
   LOCATION L0006879     VOLUME   732043.151 4052845.351 66.15
   LOCATION L0006880     VOLUME   732051.750 4052845.454 66.13
   LOCATION L0006881     VOLUME   732060.349 4052845.558 66.10
   LOCATION L0006882     VOLUME   732068.949 4052845.661 66.07
   LOCATION L0006883     VOLUME   732077.548 4052845.765 66.04
   LOCATION L0006884     VOLUME   732086.147 4052845.869 66.01
   LOCATION L0006885     VOLUME   732094.747 4052845.972 65.98
   LOCATION L0006886     VOLUME   732103.346 4052846.076 65.95
   LOCATION L0006887     VOLUME   732111.946 4052846.180 65.93
   LOCATION L0006888     VOLUME   732120.545 4052846.283 65.91
   LOCATION L0006889     VOLUME   732129.144 4052846.387 65.89
   LOCATION L0006890     VOLUME   732137.744 4052846.490 65.88
   LOCATION L0006891     VOLUME   732146.343 4052846.594 65.87
   LOCATION L0006892     VOLUME   732154.943 4052846.698 65.85
   LOCATION L0006893     VOLUME   732163.542 4052846.801 65.85
   LOCATION L0006894     VOLUME   732172.141 4052846.905 65.85
   LOCATION L0006895     VOLUME   732180.741 4052847.008 65.83
   LOCATION L0006896     VOLUME   732189.340 4052847.112 65.81
   LOCATION L0006897     VOLUME   732197.939 4052847.216 65.78
   LOCATION L0006898     VOLUME   732206.539 4052847.319 65.76
   LOCATION L0006899     VOLUME   732215.138 4052847.423 65.75
   LOCATION L0006900     VOLUME   732223.738 4052847.526 65.75
   LOCATION L0006901     VOLUME   732232.337 4052847.630 65.73
   LOCATION L0006902     VOLUME   732240.936 4052847.734 65.70
   LOCATION L0006903     VOLUME   732249.536 4052847.837 65.67
   LOCATION L0006904     VOLUME   732258.135 4052847.941 65.66
   LOCATION L0006905     VOLUME   732266.734 4052848.044 65.65
   LOCATION L0006906     VOLUME   732275.334 4052848.148 65.65
   LOCATION L0006907     VOLUME   732283.933 4052848.252 65.63
   LOCATION L0006908     VOLUME   732292.533 4052848.355 65.60
   LOCATION L0006909     VOLUME   732300.097 4052847.412 65.57
   LOCATION L0006910     VOLUME   732300.097 4052838.812 65.60
   LOCATION L0006911     VOLUME   732300.097 4052830.212 65.63
   LOCATION L0006912     VOLUME   732300.097 4052821.612 65.66
   LOCATION L0006913     VOLUME   732300.097 4052813.012 65.69
   LOCATION L0006914     VOLUME   732300.097 4052804.412 65.72
** END OF LINE VOLUME SOURCE ID = SLINE5
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE6
** DESCRSRC PG&E UPGRADES
** PREFIX
** LENGTH OF SIDE = 8.60
** CONFIGURATION = ADJACENT
** EMISSION RATE = 1.0
** VERTICAL DIMENSION = 6.80
** SZINIT = 3.16
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** 732279.893, 4052682.311, 66.20, 3.40, 4.00
** 732378.934, 4052685.196, 66.04, 3.40, 4.00
** 732368.357, 4052823.181, 65.54, 3.40, 4.00
** 732285.663, 4052818.854, 65.73, 3.40, 4.00
** 732294.797, 4052696.254, 66.10, 3.40, 4.00
** 732363.069, 4052699.139, 65.96, 3.40, 4.00
** 732352.491, 4052808.276, 65.60, 3.40, 4.00
** 732302.490, 4052805.392, 65.76, 3.40, 4.00
** 732308.259, 4052711.158, 66.08, 3.40, 4.00
** 732347.203, 4052712.120, 65.93, 3.40, 4.00
** 732338.068, 4052795.295, 65.72, 3.40, 4.00
** 732317.875, 4052794.815, 65.74, 3.40, 4.00
** 732323.164, 4052727.986, 65.95, 3.40, 4.00
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   LOCATION L0006917     VOLUME   732271.382 4052797.412 65.81
   LOCATION L0006918     VOLUME   732272.016 4052788.836 65.83
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   LOCATION L0006920     VOLUME   732273.285 4052771.682 65.89
   LOCATION L0006921     VOLUME   732273.919 4052763.106 65.91
   LOCATION L0006922     VOLUME   732274.553 4052754.529 65.94
   LOCATION L0006923     VOLUME   732275.187 4052745.953 65.97
   LOCATION L0006924     VOLUME   732275.821 4052737.376 65.99
   LOCATION L0006925     VOLUME   732276.456 4052728.800 66.02
   LOCATION L0006926     VOLUME   732277.090 4052720.223 66.05
   LOCATION L0006927     VOLUME   732277.724 4052711.646 66.07
   LOCATION L0006928     VOLUME   732278.358 4052703.070 66.10
   LOCATION L0006929     VOLUME   732278.992 4052694.493 66.13
   LOCATION L0006930     VOLUME   732279.627 4052685.917 66.17
   LOCATION L0006931     VOLUME   732284.876 4052682.457 66.18
   LOCATION L0006932     VOLUME   732293.472 4052682.707 66.16
   LOCATION L0006933     VOLUME   732302.069 4052682.957 66.14
   LOCATION L0006934     VOLUME   732310.665 4052683.208 66.13
   LOCATION L0006935     VOLUME   732319.261 4052683.458 66.12
   LOCATION L0006936     VOLUME   732327.858 4052683.708 66.10
   LOCATION L0006937     VOLUME   732336.454 4052683.959 66.08
   LOCATION L0006938     VOLUME   732345.050 4052684.209 66.06
   LOCATION L0006939     VOLUME   732353.647 4052684.460 66.03
   LOCATION L0006940     VOLUME   732362.243 4052684.710 66.02
   LOCATION L0006941     VOLUME   732370.839 4052684.960 66.01
   LOCATION L0006942     VOLUME   732378.896 4052685.696 66.00
   LOCATION L0006943     VOLUME   732378.239 4052694.271 65.97
   LOCATION L0006944     VOLUME   732377.581 4052702.846 65.94
   LOCATION L0006945     VOLUME   732376.924 4052711.421 65.92
   LOCATION L0006946     VOLUME   732376.267 4052719.996 65.89
   LOCATION L0006947     VOLUME   732375.609 4052728.571 65.86
   LOCATION L0006948     VOLUME   732374.952 4052737.145 65.83
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LOCATION L0006949 VOLUME 732374.295 4052745.720 65.80
LOCATION L0006950 VOLUME 732373.638 4052754.295 65.78
LOCATION L0006951 VOLUME 732372.980 4052762.870 65.75
LOCATION L0006952 VOLUME 732372.323 4052771.445 65.72
LOCATION L0006953 VOLUME 732371.666 4052780.020 65.69
LOCATION L0006954 VOLUME 732371.008 4052788.594 65.66
LOCATION L0006955 VOLUME 732370.351 4052797.169 65.63
LOCATION L0006956 VOLUME 732369.694 4052805.744 65.60
LOCATION L0006957 VOLUME 732369.036 4052814.319 65.57
LOCATION L0006958 VOLUME 732368.379 4052822.894 65.55
LOCATION L0006959 VOLUME 732360.056 4052822.746 65.55
LOCATION L0006960 VOLUME 732351.468 4052822.297 65.56
LOCATION L0006961 VOLUME 732342.880 4052821.848 65.59
LOCATION L0006962 VOLUME 732334.291 4052821.398 65.63
LOCATION L0006963 VOLUME 732325.703 4052820.949 65.65
LOCATION L0006964 VOLUME 732317.115 4052820.499 65.65
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LOCATION L0006966 VOLUME 732299.938 4052819.601 65.67
LOCATION L0006967 VOLUME 732291.350 4052819.151 65.70
LOCATION L0006968 VOLUME 732285.878 4052815.957 65.73
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LOCATION L0006970 VOLUME 732287.156 4052798.805 65.78
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LOCATION L0006972 VOLUME 732288.434 4052781.652 65.82
LOCATION L0006973 VOLUME 732289.073 4052773.076 65.85
LOCATION L0006974 VOLUME 732289.712 4052764.500 65.88
LOCATION L0006975 VOLUME 732290.351 4052755.924 65.90
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LOCATION L0006977 VOLUME 732291.629 4052738.771 65.95
LOCATION L0006978 VOLUME 732292.268 4052730.195 65.98
LOCATION L0006979 VOLUME 732292.907 4052721.619 66.01
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LOCATION L0006981 VOLUME 732294.185 4052704.466 66.07
LOCATION L0006982 VOLUME 732295.162 4052696.270 66.10
LOCATION L0006983 VOLUME 732303.754 4052696.633 66.09
LOCATION L0006984 VOLUME 732312.347 4052696.996 66.08
LOCATION L0006985 VOLUME 732320.939 4052697.359 66.07
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LOCATION L0006988 VOLUME 732346.716 4052698.448 66.00
LOCATION L0006989 VOLUME 732355.308 4052698.811 65.98
LOCATION L0006990 VOLUME 732362.988 4052699.968 65.96
LOCATION L0006991 VOLUME 732362.159 4052708.528 65.94
LOCATION L0006992 VOLUME 732361.329 4052717.088 65.91
LOCATION L0006993 VOLUME 732360.499 4052725.648 65.88
LOCATION L0006994 VOLUME 732359.670 4052734.208 65.85
LOCATION L0006995 VOLUME 732358.840 4052742.767 65.82
LOCATION L0006996 VOLUME 732358.011 4052751.327 65.79
LOCATION L0006997 VOLUME 732357.181 4052759.887 65.76
LOCATION L0006998 VOLUME 732356.351 4052768.447 65.73

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   LOCATION L0007000     VOLUME   732354.692 4052785.567 65.67
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   LOCATION L0007002     VOLUME   732353.033 4052802.687 65.62
   LOCATION L0007003     VOLUME   732349.512 4052808.105 65.61
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   LOCATION L0007007     VOLUME   732315.169 4052806.123 65.70
   LOCATION L0007008     VOLUME   732306.584 4052805.628 65.70
   LOCATION L0007009     VOLUME   732302.765 4052800.901 65.72
   LOCATION L0007010     VOLUME   732303.290 4052792.317 65.75
   LOCATION L0007011     VOLUME   732303.816 4052783.733 65.77
   LOCATION L0007012     VOLUME   732304.342 4052775.149 65.80
   LOCATION L0007013     VOLUME   732304.867 4052766.565 65.83
   LOCATION L0007014     VOLUME   732305.393 4052757.981 65.85
   LOCATION L0007015     VOLUME   732305.918 4052749.397 65.88
   LOCATION L0007016     VOLUME   732306.444 4052740.813 65.91
   LOCATION L0007017     VOLUME   732306.969 4052732.229 65.94
   LOCATION L0007018     VOLUME   732307.495 4052723.645 65.97
   LOCATION L0007019     VOLUME   732308.020 4052715.061 66.01
   LOCATION L0007020     VOLUME   732312.947 4052711.274 66.02
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   LOCATION L0007022     VOLUME   732330.142 4052711.699 66.01
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   LOCATION L0007028     VOLUME   732343.433 4052746.448 65.85
   LOCATION L0007029     VOLUME   732342.494 4052754.996 65.82
   LOCATION L0007030     VOLUME   732341.555 4052763.545 65.80
   LOCATION L0007031     VOLUME   732340.616 4052772.094 65.77
   LOCATION L0007032     VOLUME   732339.677 4052780.642 65.75
   LOCATION L0007033     VOLUME   732338.738 4052789.191 65.72
   LOCATION L0007034     VOLUME   732335.610 4052795.237 65.71
   LOCATION L0007035     VOLUME   732327.012 4052795.032 65.74
   LOCATION L0007036     VOLUME   732318.415 4052794.827 65.74
   LOCATION L0007037     VOLUME   732318.511 4052786.779 65.76
   LOCATION L0007038     VOLUME   732319.189 4052778.206 65.79
   LOCATION L0007039     VOLUME   732319.868 4052769.633 65.82
   LOCATION L0007040     VOLUME   732320.546 4052761.060 65.85
   LOCATION L0007041     VOLUME   732321.225 4052752.487 65.87
   LOCATION L0007042     VOLUME   732321.903 4052743.913 65.90
   LOCATION L0007043     VOLUME   732322.582 4052735.340 65.93
** END OF LINE VOLUME SOURCE ID = SLINE6
** SOURCE PARAMETERS **
** LINE VOLUME SOURCE ID = SLINE1
   SRCPARAM L0000001     0.0001523229      3.40      4.00      3.16
   SRCPARAM L0000002     0.0001523229      3.40      4.00      3.16
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SRCPARAM L0000003     0.0001523229      3.40      4.00      3.16
SRCPARAM L0000004     0.0001523229      3.40      4.00      3.16
SRCPARAM L0000005     0.0001523229      3.40      4.00      3.16
SRCPARAM L0000006     0.0001523229      3.40      4.00      3.16
SRCPARAM L0000007     0.0001523229      3.40      4.00      3.16
SRCPARAM L0000008     0.0001523229      3.40      4.00      3.16
SRCPARAM L0000009     0.0001523229      3.40      4.00      3.16
SRCPARAM L0000010     0.0001523229      3.40      4.00      3.16
SRCPARAM L0000011     0.0001523229      3.40      4.00      3.16
SRCPARAM L0000012     0.0001523229      3.40      4.00      3.16
SRCPARAM L0000013     0.0001523229      3.40      4.00      3.16
SRCPARAM L0000014     0.0001523229      3.40      4.00      3.16
SRCPARAM L0000015     0.0001523229      3.40      4.00      3.16
SRCPARAM L0000016     0.0001523229      3.40      4.00      3.16
SRCPARAM L0000017     0.0001523229      3.40      4.00      3.16
SRCPARAM L0000018     0.0001523229      3.40      4.00      3.16
SRCPARAM L0000019     0.0001523229      3.40      4.00      3.16
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SRCPARAM L0004002     0.0001523229      3.40      4.00      3.16
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SRCPARAM L0004009     0.0001523229      3.40      4.00      3.16
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** LINE VOLUME SOURCE ID = SLINE3
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SRCGROUP CON      L0000325 L0000326 L0000327 L0000328 L0000329 L0000330
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SRCGROUP CON      L0005803 L0005804 L0005805 L0005806 L0005807 L0005808
SRCGROUP CON      L0005809 L0005810 L0005811 L0005812 L0005813 L0005814
SRCGROUP CON      L0005815 L0005816 L0005817 L0005818 L0005819 L0005820
SRCGROUP CON      L0005821 L0005822 L0005823 L0005824 L0005825 L0005826
SRCGROUP CON      L0005827 L0005828 L0005829 L0005830 L0005831 L0005832
SRCGROUP CON      L0005833 L0005834 L0005835 L0005836 L0005837 L0005838
SRCGROUP CON      L0005839 L0005840 L0005841 L0005842 L0005843 L0005844
SRCGROUP CON      L0005845 L0005846 L0005847 L0005848 L0005849 L0005850
SRCGROUP CON      L0005851 L0005852 L0005853 L0005854 L0005855 L0005856
SRCGROUP CON      L0005857 L0005858 L0005859 L0005860 L0005861 L0005862
SRCGROUP CON      L0005863 L0005864 L0005865 L0005866 L0005867 L0005868
SRCGROUP CON      L0005869 L0005870 L0005871 L0005872 L0005873 L0005874
SRCGROUP CON      L0005875 L0005876 L0005877 L0005878 L0005879 L0005880
SRCGROUP CON      L0005881 L0005882 L0005883 L0005884 L0005885 L0005886
SRCGROUP CON      L0005887 L0005888 L0005889 L0005890 L0005891 L0005892
SRCGROUP CON      L0005893 L0005894 L0005895 L0005896 L0005897 L0005898
SRCGROUP CON      L0005899 L0005900 L0005901 L0005902 L0005903 L0005904
SRCGROUP CON      L0005905 L0005906 L0005907 L0005908 L0005909 L0005910
SRCGROUP CON      L0005911 L0005912 L0005913 L0005914 L0005915 L0005916
SRCGROUP CON      L0005917 L0005918 L0005919 L0005920 L0005921 L0005922
SRCGROUP CON      L0005923 L0005924 L0005925 L0005926 L0005927 L0005928
SRCGROUP CON      L0005929 L0005930 L0005931 L0005932 L0005933 L0005934
SRCGROUP CON      L0005935 L0005936 L0005937 L0005938 L0005939 L0005940
SRCGROUP CON      L0005941 L0005942 L0005943 L0005944 L0005945 L0005946
SRCGROUP CON      L0005947 L0005948 L0005949 L0005950 L0005951 L0005952
SRCGROUP CON      L0005953 L0005954 L0005955 L0005956 L0005957 L0005958
SRCGROUP CON      L0005959 L0005960 L0005961 L0005962 L0005963 L0005964
SRCGROUP CON      L0005965 L0005966 L0005967 L0005968 L0005969 L0005970
SRCGROUP CON      L0005971 L0005972 L0005973 L0005974 L0005975 L0005976
SRCGROUP CON      L0005977 L0005978 L0005979 L0005980 L0005981 L0005982
SRCGROUP CON      L0005983 L0005984 L0005985 L0005986 L0005987 L0005988
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SRCGROUP CON      L0005995 L0005996 L0005997 L0005998 L0005999 L0006000
SRCGROUP CON      L0006001 L0006002 L0006003 L0006004 L0006005 L0006006
SRCGROUP CON      L0006007 L0006008 L0006009 L0006010 L0006011 L0006012
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SRCGROUP CON      L0006037 L0006038 L0006039 L0006040 L0006041 L0006042
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SRCGROUP CON      L0006103 L0006104 L0006105 L0006106 L0006107 L0006108
SRCGROUP CON      L0006109 L0006110 L0006111 L0006112 L0006113 L0006114
SRCGROUP CON      L0006115 L0006116 L0006117 L0006118 L0006119 L0006120
SRCGROUP CON      L0006121 L0006122 L0006123 L0006124 L0006125 L0006126
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SRCGROUP CON      L0006199 L0006200 L0006201 L0006202 L0006203 L0006204
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SRCGROUP CON      L0006223 L0006224 L0006225 L0006226 L0006227 L0006228
SRCGROUP CON      L0006229 L0006230 L0006231 L0006232 L0006233 L0006234
SRCGROUP CON      L0006235 L0006236 L0006237 L0006238 L0006239 L0006240
SRCGROUP CON      L0006241 L0006242 L0006243 L0006244 L0006245 L0006246
SRCGROUP CON      L0006247 L0006248 L0006249 L0006250 L0006251 L0006252
SRCGROUP CON      L0006253 L0006254 L0006255 L0006256 L0006257 L0006258
SRCGROUP CON      L0006259 L0006260 L0006261 L0006262 L0006263 L0006264
SRCGROUP CON      L0006265 L0006266 L0006267 L0006268 L0006269 L0006270
SRCGROUP CON      L0006271 L0006272 L0006273 L0006274 L0006275 L0006276
SRCGROUP CON      L0006277 L0006278 L0006279 L0006280 L0006281 L0006282
SRCGROUP CON      L0006283 L0006284 L0006285 L0006286 L0006287 L0006288
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SRCGROUP CON      L0006301 L0006302 L0006303 L0006304 L0006305 L0006306
SRCGROUP CON      L0006307 L0006308 L0006309 L0006310 L0006311 L0006312
SRCGROUP CON      L0006313 L0006314 L0006315 L0006316 L0006317 L0006318
SRCGROUP CON      L0006319 L0006320 L0006321 L0006322 L0006323 L0006324
SRCGROUP CON      L0006325 L0006326 L0006327 L0006328 L0006329 L0006330
SRCGROUP CON      L0006331 L0006332 L0006333 L0006334 L0006335 L0006336
SRCGROUP CON      L0006337 L0006338 L0006339 L0006340 L0006341 L0006342
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SRCGROUP CON      L0006379 L0006380 L0006381 L0006382 L0006383 L0006384
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SRCGROUP CON      L0006505 L0006506 L0006507 L0006508 L0006509 L0006510
SRCGROUP CON      L0006511 L0006512 L0006513 L0006514 L0006515 L0006516
SRCGROUP CON      L0006517 L0006518 L0006519 L0006520 L0006521 L0006522
SRCGROUP CON      L0006523 L0006524 L0006525 L0006526 L0006527 L0006528
SRCGROUP CON      L0006529 L0006530 L0006531 L0006532 L0006533 L0006534
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SRCGROUP CON      L0006541 L0006542 L0006543 L0006544 L0006545 L0006546
SRCGROUP CON      L0006547 L0006548 L0006549 L0006550 L0006551 L0006552
SRCGROUP CON      L0006553 L0006554 L0006555 L0006556 L0006557 L0006558
SRCGROUP CON      L0006559 L0006560 L0006561 L0006562 L0006563 L0006564
SRCGROUP CON      L0006565
SRCGROUP GENTIE   L0006566 L0006567 L0006568 L0006569 L0006570 L0006571
SRCGROUP GENTIE   L0006572 L0006573 L0006574 L0006575 L0006576 L0006577
SRCGROUP GENTIE   L0006578 L0006579 L0006580 L0006581 L0006582 L0006583
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SRCGROUP GENTIE   L0006584 L0006585 L0006586 L0006587 L0006588 L0006589
SRCGROUP GENTIE   L0006590 L0006591 L0006592 L0006593 L0006594 L0006595
SRCGROUP GENTIE   L0006596 L0006597 L0006598 L0006599 L0006600 L0006601
SRCGROUP GENTIE   L0006602 L0006603 L0006604 L0006605 L0006606 L0006607
SRCGROUP GENTIE   L0006608 L0006609 L0006610 L0006611 L0006612 L0006613
SRCGROUP GENTIE   L0006614 L0006615 L0006616 L0006617 L0006618 L0006619
SRCGROUP GENTIE   L0006620 L0006621 L0006622 L0006623 L0006624 L0006625
SRCGROUP GENTIE   L0006626 L0006627 L0006628 L0006629 L0006630 L0006631
SRCGROUP GENTIE   L0006632 L0006633 L0006634 L0006635 L0006636 L0006637
SRCGROUP GENTIE   L0006638 L0006639 L0006640 L0006641 L0006642 L0006643
SRCGROUP GENTIE   L0006644 L0006645 L0006646 L0006647 L0006648 L0006649
SRCGROUP GENTIE   L0006650 L0006651 L0006652 L0006653 L0006654 L0006655
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SRCGROUP GENTIE   L0006662 L0006663 L0006664 L0006665 L0006666 L0006667
SRCGROUP GENTIE   L0006668 L0006669 L0006670 L0006671 L0006672 L0006673
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SRCGROUP GENTIE   L0006680 L0006681 L0006682 L0006683 L0006684 L0006685
SRCGROUP GENTIE   L0006686 L0006687 L0006688 L0006689 L0006690 L0006691
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SRCGROUP GENTIE   L0006698 L0006699 L0006700 L0006701 L0006702 L0006703
SRCGROUP GENTIE   L0006704 L0006705 L0006706 L0006707 L0006708 L0006709
SRCGROUP GENTIE   L0006710 L0006711 L0006712 L0006713 L0006714 L0006715
SRCGROUP GENTIE   L0006716 L0006717 L0006718 L0006719 L0006720 L0006721
SRCGROUP GENTIE   L0006722 L0006723 L0006724 L0006725 L0006726 L0006727
SRCGROUP GENTIE   L0006728 L0006729 L0006730 L0006731 L0006732 L0006733
SRCGROUP GENTIE   L0006734 L0006735 L0006736 L0006737 L0006738 L0006739
SRCGROUP GENTIE   L0006740 L0006741 L0006742 L0006743 L0006744 L0006745
SRCGROUP GENTIE   L0006746 L0006747 L0006748 L0006749 L0006750 L0006751
SRCGROUP GENTIE   L0006752 L0006753 L0006754 L0006755 L0006756 L0006757
SRCGROUP GENTIE   L0006758 L0006759 L0006760 L0006761 L0006762 L0006763
SRCGROUP GENTIE   L0006764 L0006765 L0006766 L0006767 L0006768 L0006769
SRCGROUP GENTIE   L0006770 L0006771 L0006772 L0006773 L0006774 L0006775
SRCGROUP GENTIE   L0006776 L0006777 L0006778 L0006779 L0006780 L0006781
SRCGROUP GENTIE   L0006782 L0006783 L0006784 L0006785 L0006786 L0006787
SRCGROUP GENTIE   L0006788 L0006789 L0006790 L0006791 L0006792 L0006793
SRCGROUP GENTIE   L0006794 L0006795 L0006796 L0006797 L0006798 L0006799
SRCGROUP GENTIE   L0006800 L0006801 L0006802 L0006803 L0006804 L0006805
SRCGROUP GENTIE   L0006806 L0006807 L0006808 L0006809 L0006810 L0006811
SRCGROUP GENTIE   L0006812 L0006813 L0006814 L0006815 L0006816 L0006817
SRCGROUP GENTIE   L0006818 L0006819 L0006820 L0006821 L0006822 L0006823
SRCGROUP GENTIE   L0006824 L0006825 L0006826 L0006827 L0006828 L0006829
SRCGROUP GENTIE   L0006830 L0006831 L0006832 L0006833 L0006834 L0006835
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SRCGROUP GENTIE   L0006842 L0006843 L0006844 L0006845 L0006846 L0006847
SRCGROUP GENTIE   L0006848 L0006849 L0006850 L0006851 L0006852 L0006853
SRCGROUP GENTIE   L0006854 L0006855 L0006856 L0006857 L0006858 L0006859
SRCGROUP GENTIE   L0006860 L0006861 L0006862 L0006863 L0006864 L0006865
SRCGROUP GENTIE   L0006866 L0006867 L0006868 L0006869 L0006870 L0006871
SRCGROUP GENTIE   L0006872 L0006873 L0006874 L0006875 L0006876 L0006877
SRCGROUP GENTIE   L0006878 L0006879 L0006880 L0006881 L0006882 L0006883
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   SRCGROUP GENTIE   L0006884 L0006885 L0006886 L0006887 L0006888 L0006889
   SRCGROUP GENTIE   L0006890 L0006891 L0006892 L0006893 L0006894 L0006895
   SRCGROUP GENTIE   L0006896 L0006897 L0006898 L0006899 L0006900 L0006901
   SRCGROUP GENTIE   L0006902 L0006903 L0006904 L0006905 L0006906 L0006907
   SRCGROUP GENTIE   L0006908 L0006909 L0006910 L0006911 L0006912 L0006913
   SRCGROUP GENTIE   L0006914
   SRCGROUP PGE      L0006915 L0006916 L0006917 L0006918 L0006919 L0006920
   SRCGROUP PGE      L0006921 L0006922 L0006923 L0006924 L0006925 L0006926
   SRCGROUP PGE      L0006927 L0006928 L0006929 L0006930 L0006931 L0006932
   SRCGROUP PGE      L0006933 L0006934 L0006935 L0006936 L0006937 L0006938
   SRCGROUP PGE      L0006939 L0006940 L0006941 L0006942 L0006943 L0006944
   SRCGROUP PGE      L0006945 L0006946 L0006947 L0006948 L0006949 L0006950
   SRCGROUP PGE      L0006951 L0006952 L0006953 L0006954 L0006955 L0006956
   SRCGROUP PGE      L0006957 L0006958 L0006959 L0006960 L0006961 L0006962
   SRCGROUP PGE      L0006963 L0006964 L0006965 L0006966 L0006967 L0006968
   SRCGROUP PGE      L0006969 L0006970 L0006971 L0006972 L0006973 L0006974
   SRCGROUP PGE      L0006975 L0006976 L0006977 L0006978 L0006979 L0006980
   SRCGROUP PGE      L0006981 L0006982 L0006983 L0006984 L0006985 L0006986
   SRCGROUP PGE      L0006987 L0006988 L0006989 L0006990 L0006991 L0006992
   SRCGROUP PGE      L0006993 L0006994 L0006995 L0006996 L0006997 L0006998
   SRCGROUP PGE      L0006999 L0007000 L0007001 L0007002 L0007003 L0007004
   SRCGROUP PGE      L0007005 L0007006 L0007007 L0007008 L0007009 L0007010
   SRCGROUP PGE      L0007011 L0007012 L0007013 L0007014 L0007015 L0007016
   SRCGROUP PGE      L0007017 L0007018 L0007019 L0007020 L0007021 L0007022
   SRCGROUP PGE      L0007023 L0007024 L0007025 L0007026 L0007027 L0007028
   SRCGROUP PGE      L0007029 L0007030 L0007031 L0007032 L0007033 L0007034
   SRCGROUP PGE      L0007035 L0007036 L0007037 L0007038 L0007039 L0007040
   SRCGROUP PGE      L0007041 L0007042 L0007043
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD RECEPTOR PATHWAY
****************************************
**
**
RE STARTING
   INCLUDED "HEARTLAND HYDROGEN.ROU"
RE FINISHED
**
****************************************
** AERMOD METEOROLOGY PATHWAY
****************************************
**
**
ME STARTING
   SURFFILE ..\MENDOTA-MM5\MENDOTA_07-11.SFC
   PROFFILE ..\MENDOTA-MM5\MENDOTA_07-11.PFL
   SURFDATA 99005 2007
   UAIRDATA 66666 2007
```

```
   PROFBASE 15.0 METERS
ME FINISHED
**
**************************************
** AERMOD OUTPUT PATHWAY
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** AUTO-GENERATED PLOTFILES
   PLOTFILE   1 ALL 1ST "HEARTLAND HYDROGEN.AD\01H1GALL.PLT" 31
   PLOTFILE   1 CON 1ST "HEARTLAND HYDROGEN.AD\01H1G001.PLT" 32
   PLOTFILE   1 GENTIE 1ST "HEARTLAND HYDROGEN.AD\01H1G002.PLT" 33
   PLOTFILE   1 PGE 1ST "HEARTLAND HYDROGEN.AD\01H1G003.PLT" 34
   PLOTFILE   PERIOD ALL "HEARTLAND HYDROGEN.AD\PE00GALL.PLT" 35
   PLOTFILE   PERIOD CON "HEARTLAND HYDROGEN.AD\PE00G001.PLT" 36
   PLOTFILE   PERIOD GENTIE "HEARTLAND HYDROGEN.AD\PE00G002.PLT" 37
   PLOTFILE   PERIOD PGE "HEARTLAND HYDROGEN.AD\PE00G003.PLT" 38
   SUMMFILE "HEARTLAND HYDROGEN.SUM"
OU FINISHED


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

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

 A Total of            0 Fatal Error Message(s)
 A Total of            1 Warning Message(s)
 A Total of            0 Informational Message(s)


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


    ********   WARNING MESSAGES   ********
 ME W187   15500       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


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

↟ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44
```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

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

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) = 15.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ;
Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 6.5 MB of RAM.

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: HEARTLAND HYDROGEN.ERR

**File for Summary of Results: HEARTLAND HYDROGEN.SUM

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY	AIRCRAFT
L0000001	0	0.15232E-03	731152.0	4060326.1	66.1	3.40	4.00				

```
3.16     NO                    NO
 L0000002         0   0.15232E-03  731152.3 4060317.5    66.1     3.40     4.00
3.16     NO                    NO
 L0000003         0   0.15232E-03  731152.5 4060308.9    66.1     3.40     4.00
3.16     NO                    NO
 L0000004         0   0.15232E-03  731152.8 4060300.3    66.2     3.40     4.00
3.16     NO                    NO
 L0000005         0   0.15232E-03  731153.1 4060291.7    66.2     3.40     4.00
3.16     NO                    NO
 L0000006         0   0.15232E-03  731153.3 4060283.1    66.2     3.40     4.00
3.16     NO                    NO
 L0000007         0   0.15232E-03  731153.6 4060274.5    66.2     3.40     4.00
3.16     NO                    NO
 L0000008         0   0.15232E-03  731153.8 4060265.9    66.3     3.40     4.00
3.16     NO                    NO
 L0000009         0   0.15232E-03  731154.1 4060257.3    66.3     3.40     4.00
3.16     NO                    NO
 L0000010         0   0.15232E-03  731154.4 4060248.7    66.3     3.40     4.00
3.16     NO                    NO
 L0000011         0   0.15232E-03  731154.6 4060240.1    66.3     3.40     4.00
3.16     NO                    NO
 L0000012         0   0.15232E-03  731154.9 4060231.5    66.3     3.40     4.00
3.16     NO                    NO
 L0000013         0   0.15232E-03  731155.1 4060222.9    66.4     3.40     4.00
3.16     NO                    NO
 L0000014         0   0.15232E-03  731155.4 4060214.3    66.4     3.40     4.00
3.16     NO                    NO
 L0000015         0   0.15232E-03  731155.7 4060205.7    66.4     3.40     4.00
3.16     NO                    NO
 L0000016         0   0.15232E-03  731155.9 4060197.1    66.4     3.40     4.00
3.16     NO                    NO
 L0000017         0   0.15232E-03  731156.2 4060188.5    66.4     3.40     4.00
3.16     NO                    NO
 L0000018         0   0.15232E-03  731156.4 4060179.9    66.4     3.40     4.00
3.16     NO                    NO
 L0000019         0   0.15232E-03  731156.7 4060171.3    66.4     3.40     4.00
3.16     NO                    NO
 L0000020         0   0.15232E-03  731157.0 4060162.7    66.4     3.40     4.00
3.16     NO                    NO
 L0000021         0   0.15232E-03  731157.2 4060154.1    66.4     3.40     4.00
3.16     NO                    NO
 L0000022         0   0.15232E-03  731157.5 4060145.6    66.4     3.40     4.00
3.16     NO                    NO
 L0000023         0   0.15232E-03  731157.7 4060137.0    66.4     3.40     4.00
3.16     NO                    NO
 L0000024         0   0.15232E-03  731158.0 4060128.4    66.4     3.40     4.00
3.16     NO                    NO
 L0000025         0   0.15232E-03  731158.3 4060119.8    66.4     3.40     4.00
3.16     NO                    NO
 L0000026         0   0.15232E-03  731158.5 4060111.2    66.4     3.40     4.00
```

3.16 NO NO
L0000027 0 0.15232E-03 731158.8 4060102.6 66.4 3.40 4.00
3.16 NO NO
L0000028 0 0.15232E-03 731159.0 4060094.0 66.3 3.40 4.00
3.16 NO NO
L0000029 0 0.15232E-03 731159.3 4060085.4 66.3 3.40 4.00
3.16 NO NO
L0000030 0 0.15232E-03 731159.6 4060076.8 66.3 3.40 4.00
3.16 NO NO
L0000031 0 0.15232E-03 731159.8 4060068.2 66.2 3.40 4.00
3.16 NO NO
L0000032 0 0.15232E-03 731160.1 4060059.6 66.2 3.40 4.00
3.16 NO NO
L0000033 0 0.15232E-03 731160.3 4060051.0 66.2 3.40 4.00
3.16 NO NO
L0000034 0 0.15232E-03 731160.6 4060042.4 66.1 3.40 4.00
3.16 NO NO
L0000035 0 0.15232E-03 731160.9 4060033.8 66.1 3.40 4.00
3.16 NO NO
L0000036 0 0.15232E-03 731161.1 4060025.2 66.0 3.40 4.00
3.16 NO NO
L0000037 0 0.15232E-03 731161.4 4060016.6 66.0 3.40 4.00
3.16 NO NO
L0000038 0 0.15232E-03 731161.6 4060008.0 66.0 3.40 4.00
3.16 NO NO
L0000039 0 0.15232E-03 731161.9 4059999.4 65.9 3.40 4.00
3.16 NO NO
L0000040 0 0.15232E-03 731162.2 4059990.8 65.9 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT SCALAR VARY
L0000041	0	0.15232E-03	731162.4	4059982.2	65.9	3.40	4.00			

```
3.16     NO                    NO
 L0000042         0   0.15232E-03  731162.7 4059973.6    65.8     3.40     4.00
3.16     NO                    NO
 L0000043         0   0.15232E-03  731162.9 4059965.0    65.8     3.40     4.00
3.16     NO                    NO
 L0000044         0   0.15232E-03  731163.2 4059956.4    65.8     3.40     4.00
3.16     NO                    NO
 L0000045         0   0.15232E-03  731163.5 4059947.8    65.8     3.40     4.00
3.16     NO                    NO
 L0000046         0   0.15232E-03  731163.7 4059939.2    65.7     3.40     4.00
3.16     NO                    NO
 L0000047         0   0.15232E-03  731164.0 4059930.7    65.7     3.40     4.00
3.16     NO                    NO
 L0000048         0   0.15232E-03  731164.3 4059922.1    65.7     3.40     4.00
3.16     NO                    NO
 L0000049         0   0.15232E-03  731164.5 4059913.5    65.7     3.40     4.00
3.16     NO                    NO
 L0000050         0   0.15232E-03  731164.8 4059904.9    65.6     3.40     4.00
3.16     NO                    NO
 L0000051         0   0.15232E-03  731165.0 4059896.3    65.6     3.40     4.00
3.16     NO                    NO
 L0000052         0   0.15232E-03  731165.3 4059887.7    65.6     3.40     4.00
3.16     NO                    NO
 L0000053         0   0.15232E-03  731165.6 4059879.1    65.5     3.40     4.00
3.16     NO                    NO
 L0000054         0   0.15232E-03  731165.8 4059870.5    65.5     3.40     4.00
3.16     NO                    NO
 L0000055         0   0.15232E-03  731166.1 4059861.9    65.5     3.40     4.00
3.16     NO                    NO
 L0000056         0   0.15232E-03  731166.3 4059853.3    65.5     3.40     4.00
3.16     NO                    NO
 L0000057         0   0.15232E-03  731166.6 4059844.7    65.5     3.40     4.00
3.16     NO                    NO
 L0000058         0   0.15232E-03  731166.9 4059836.1    65.4     3.40     4.00
3.16     NO                    NO
 L0000059         0   0.15232E-03  731167.1 4059827.5    65.4     3.40     4.00
3.16     NO                    NO
 L0000060         0   0.15232E-03  731167.4 4059818.9    65.4     3.40     4.00
3.16     NO                    NO
 L0000061         0   0.15232E-03  731167.6 4059810.3    65.4     3.40     4.00
3.16     NO                    NO
 L0000062         0   0.15232E-03  731167.9 4059801.7    65.4     3.40     4.00
3.16     NO                    NO
 L0000063         0   0.15232E-03  731168.2 4059793.1    65.4     3.40     4.00
3.16     NO                    NO
 L0000064         0   0.15232E-03  731168.4 4059784.5    65.3     3.40     4.00
3.16     NO                    NO
 L0000065         0   0.15232E-03  731168.7 4059775.9    65.3     3.40     4.00
3.16     NO                    NO
 L0000066         0   0.15232E-03  731168.9 4059767.3    65.3     3.40     4.00
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3.16 NO NO
L0000067 0 0.15232E-03 731169.2 4059758.7 65.3 3.40 4.00
3.16 NO NO
L0000068 0 0.15232E-03 731169.5 4059750.1 65.3 3.40 4.00
3.16 NO NO
L0000069 0 0.15232E-03 731169.7 4059741.5 65.3 3.40 4.00
3.16 NO NO
L0000070 0 0.15232E-03 731170.0 4059732.9 65.3 3.40 4.00
3.16 NO NO
L0000071 0 0.15232E-03 731170.2 4059724.3 65.3 3.40 4.00
3.16 NO NO
L0000072 0 0.15232E-03 731170.5 4059715.8 65.3 3.40 4.00
3.16 NO NO
L0000073 0 0.15232E-03 731170.8 4059707.2 65.3 3.40 4.00
3.16 NO NO
L0000074 0 0.15232E-03 731171.0 4059698.6 65.2 3.40 4.00
3.16 NO NO
L0000075 0 0.15232E-03 731171.3 4059690.0 65.2 3.40 4.00
3.16 NO NO
L0000076 0 0.15232E-03 731171.5 4059681.4 65.2 3.40 4.00
3.16 NO NO
L0000077 0 0.15232E-03 731171.8 4059672.8 65.2 3.40 4.00
3.16 NO NO
L0000078 0 0.15232E-03 731172.1 4059664.2 65.2 3.40 4.00
3.16 NO NO
L0000079 0 0.15232E-03 731172.3 4059655.6 65.2 3.40 4.00
3.16 NO NO
L0000080 0 0.15232E-03 731172.6 4059647.0 65.2 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT EMISSION RATE SCALAR VARY
L0000081	0	0.15232E-03	731172.8	4059638.4	65.2	3.40	4.00			

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3.16     NO                    NO
 L0000082         0   0.15232E-03  731173.1 4059629.8    65.2     3.40     4.00
3.16     NO                    NO
 L0000083         0   0.15232E-03  731173.4 4059621.2    65.2     3.40     4.00
3.16     NO                    NO
 L0000084         0   0.15232E-03  731173.6 4059612.6    65.2     3.40     4.00
3.16     NO                    NO
 L0000085         0   0.15232E-03  731173.9 4059604.0    65.2     3.40     4.00
3.16     NO                    NO
 L0000086         0   0.15232E-03  731174.1 4059595.4    65.2     3.40     4.00
3.16     NO                    NO
 L0000087         0   0.15232E-03  731174.4 4059586.8    65.1     3.40     4.00
3.16     NO                    NO
 L0000088         0   0.15232E-03  731174.7 4059578.2    65.1     3.40     4.00
3.16     NO                    NO
 L0000089         0   0.15232E-03  731174.9 4059569.6    65.1     3.40     4.00
3.16     NO                    NO
 L0000090         0   0.15232E-03  731175.2 4059561.0    65.1     3.40     4.00
3.16     NO                    NO
 L0000091         0   0.15232E-03  731175.5 4059552.4    65.1     3.40     4.00
3.16     NO                    NO
 L0000092         0   0.15232E-03  731175.7 4059543.8    65.1     3.40     4.00
3.16     NO                    NO
 L0000093         0   0.15232E-03  731176.0 4059535.2    65.1     3.40     4.00
3.16     NO                    NO
 L0000094         0   0.15232E-03  731176.2 4059526.6    65.1     3.40     4.00
3.16     NO                    NO
 L0000095         0   0.15232E-03  731176.5 4059518.0    65.1     3.40     4.00
3.16     NO                    NO
 L0000096         0   0.15232E-03  731176.8 4059509.4    65.1     3.40     4.00
3.16     NO                    NO
 L0000097         0   0.15232E-03  731177.0 4059500.8    65.1     3.40     4.00
3.16     NO                    NO
 L0000098         0   0.15232E-03  731177.3 4059492.3    65.1     3.40     4.00
3.16     NO                    NO
 L0000099         0   0.15232E-03  731177.5 4059483.7    65.1     3.40     4.00
3.16     NO                    NO
 L0000100         0   0.15232E-03  731177.8 4059475.1    65.1     3.40     4.00
3.16     NO                    NO
 L0000101         0   0.15232E-03  731178.1 4059466.5    65.1     3.40     4.00
3.16     NO                    NO
 L0000102         0   0.15232E-03  731178.3 4059457.9    65.1     3.40     4.00
3.16     NO                    NO
 L0000103         0   0.15232E-03  731178.6 4059449.3    65.1     3.40     4.00
3.16     NO                    NO
 L0000104         0   0.15232E-03  731178.8 4059440.7    65.1     3.40     4.00
3.16     NO                    NO
 L0000105         0   0.15232E-03  731179.1 4059432.1    65.1     3.40     4.00
3.16     NO                    NO
 L0000106         0   0.15232E-03  731179.4 4059423.5    65.1     3.40     4.00
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3.16 NO NO
L0000107 0 0.15232E-03 731179.6 4059414.9 65.1 3.40 4.00
3.16 NO NO
L0000108 0 0.15232E-03 731179.9 4059406.3 65.1 3.40 4.00
3.16 NO NO
L0000109 0 0.15232E-03 731180.1 4059397.7 65.1 3.40 4.00
3.16 NO NO
L0000110 0 0.15232E-03 731180.4 4059389.1 65.1 3.40 4.00
3.16 NO NO
L0000111 0 0.15232E-03 731180.7 4059380.5 65.1 3.40 4.00
3.16 NO NO
L0000112 0 0.15232E-03 731180.9 4059371.9 65.1 3.40 4.00
3.16 NO NO
L0000113 0 0.15232E-03 731181.2 4059363.3 65.1 3.40 4.00
3.16 NO NO
L0000114 0 0.15232E-03 731181.4 4059354.7 65.1 3.40 4.00
3.16 NO NO
L0000115 0 0.15232E-03 731181.7 4059346.1 65.1 3.40 4.00
3.16 NO NO
L0000116 0 0.15232E-03 731182.0 4059337.5 65.1 3.40 4.00
3.16 NO NO
L0000117 0 0.15232E-03 731182.2 4059328.9 65.2 3.40 4.00
3.16 NO NO
L0000118 0 0.15232E-03 731182.5 4059320.3 65.2 3.40 4.00
3.16 NO NO
L0000119 0 0.15232E-03 731182.7 4059311.7 65.2 3.40 4.00
3.16 NO NO
L0000120 0 0.15232E-03 731183.0 4059303.1 65.2 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT EMISSION RATE SCALAR VARY
L0000121	0	0.15232E-03	731183.3	4059294.5	65.2	3.40	4.00			

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3.16     NO                    NO
 L0000122         0   0.15232E-03  731183.5 4059285.9    65.2     3.40     4.00
3.16     NO                    NO
 L0000123         0   0.15232E-03  731183.8 4059277.4    65.2     3.40     4.00
3.16     NO                    NO
 L0000124         0   0.15232E-03  731184.0 4059268.8    65.2     3.40     4.00
3.16     NO                    NO
 L0000125         0   0.15232E-03  731184.3 4059260.2    65.2     3.40     4.00
3.16     NO                    NO
 L0000126         0   0.15232E-03  731184.6 4059251.6    65.2     3.40     4.00
3.16     NO                    NO
 L0000127         0   0.15232E-03  731184.8 4059243.0    65.2     3.40     4.00
3.16     NO                    NO
 L0000128         0   0.15232E-03  731185.1 4059234.4    65.2     3.40     4.00
3.16     NO                    NO
 L0000129         0   0.15232E-03  731185.4 4059225.8    65.1     3.40     4.00
3.16     NO                    NO
 L0000130         0   0.15232E-03  731185.6 4059217.2    65.1     3.40     4.00
3.16     NO                    NO
 L0000131         0   0.15232E-03  731185.9 4059208.6    65.1     3.40     4.00
3.16     NO                    NO
 L0000132         0   0.15232E-03  731186.1 4059200.0    65.1     3.40     4.00
3.16     NO                    NO
 L0000133         0   0.15232E-03  731186.4 4059191.4    65.2     3.40     4.00
3.16     NO                    NO
 L0000134         0   0.15232E-03  731186.7 4059182.8    65.2     3.40     4.00
3.16     NO                    NO
 L0000135         0   0.15232E-03  731186.9 4059174.2    65.2     3.40     4.00
3.16     NO                    NO
 L0000136         0   0.15232E-03  731187.2 4059165.6    65.2     3.40     4.00
3.16     NO                    NO
 L0000137         0   0.15232E-03  731187.4 4059157.0    65.2     3.40     4.00
3.16     NO                    NO
 L0000138         0   0.15232E-03  731187.7 4059148.4    65.2     3.40     4.00
3.16     NO                    NO
 L0000139         0   0.15232E-03  731188.0 4059139.8    65.2     3.40     4.00
3.16     NO                    NO
 L0000140         0   0.15232E-03  731188.2 4059131.2    65.2     3.40     4.00
3.16     NO                    NO
 L0000141         0   0.15232E-03  731188.5 4059122.6    65.2     3.40     4.00
3.16     NO                    NO
 L0000142         0   0.15232E-03  731188.7 4059114.0    65.2     3.40     4.00
3.16     NO                    NO
 L0000143         0   0.15232E-03  731189.0 4059105.4    65.2     3.40     4.00
3.16     NO                    NO
 L0000144         0   0.15232E-03  731189.3 4059096.8    65.2     3.40     4.00
3.16     NO                    NO
 L0000145         0   0.15232E-03  731189.5 4059088.2    65.2     3.40     4.00
3.16     NO                    NO
 L0000146         0   0.15232E-03  731189.8 4059079.6    65.2     3.40     4.00
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3.16     NO                     NO
 L0000147         0   0.15232E-03  731190.0 4059071.0    65.2     3.40     4.00
3.16     NO                     NO
 L0000148         0   0.15232E-03  731190.3 4059062.4    65.2     3.40     4.00
3.16     NO                     NO
 L0000149         0   0.15232E-03  731190.6 4059053.9    65.2     3.40     4.00
3.16     NO                     NO
 L0000150         0   0.15232E-03  731190.8 4059045.3    65.2     3.40     4.00
3.16     NO                     NO
 L0000151         0   0.15232E-03  731191.1 4059036.7    65.2     3.40     4.00
3.16     NO                     NO
 L0000152         0   0.15232E-03  731191.3 4059028.1    65.2     3.40     4.00
3.16     NO                     NO
 L0000153         0   0.15232E-03  731191.6 4059019.5    65.2     3.40     4.00
3.16     NO                     NO
 L0000154         0   0.15232E-03  731191.9 4059010.9    65.2     3.40     4.00
3.16     NO                     NO
 L0000155         0   0.15232E-03  731192.1 4059002.3    65.2     3.40     4.00
3.16     NO                     NO
 L0000156         0   0.15232E-03  731192.4 4058993.7    65.2     3.40     4.00
3.16     NO                     NO
 L0000157         0   0.15232E-03  731192.6 4058985.1    65.2     3.40     4.00
3.16     NO                     NO
 L0000158         0   0.15232E-03  731192.9 4058976.5    65.2     3.40     4.00
3.16     NO                     NO
 L0000159         0   0.15232E-03  731193.2 4058967.9    65.2     3.40     4.00
3.16     NO                     NO
 L0000160         0   0.15232E-03  731193.4 4058959.3    65.3     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE   6
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0000161         0   0.15232E-03  731193.7 4058950.7    65.3     3.40     4.00
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3.16     NO                    NO
 L0000162         0   0.15232E-03  731193.9 4058942.1    65.3     3.40     4.00
3.16     NO                    NO
 L0000163         0   0.15232E-03  731194.2 4058933.5    65.3     3.40     4.00
3.16     NO                    NO
 L0000164         0   0.15232E-03  731194.5 4058924.9    65.3     3.40     4.00
3.16     NO                    NO
 L0000165         0   0.15232E-03  731194.7 4058916.3    65.3     3.40     4.00
3.16     NO                    NO
 L0000166         0   0.15232E-03  731195.0 4058907.7    65.3     3.40     4.00
3.16     NO                    NO
 L0000167         0   0.15232E-03  731196.7 4058900.7    65.2     3.40     4.00
3.16     NO                    NO
 L0000168         0   0.15232E-03  731205.3 4058901.0    65.2     3.40     4.00
3.16     NO                    NO
 L0000169         0   0.15232E-03  731213.9 4058901.2    65.2     3.40     4.00
3.16     NO                    NO
 L0000170         0   0.15232E-03  731222.5 4058901.5    65.1     3.40     4.00
3.16     NO                    NO
 L0000171         0   0.15232E-03  731231.1 4058901.8    65.1     3.40     4.00
3.16     NO                    NO
 L0000172         0   0.15232E-03  731239.7 4058902.1    65.1     3.40     4.00
3.16     NO                    NO
 L0000173         0   0.15232E-03  731248.3 4058902.3    65.1     3.40     4.00
3.16     NO                    NO
 L0000174         0   0.15232E-03  731256.9 4058902.6    65.0     3.40     4.00
3.16     NO                    NO
 L0000175         0   0.15232E-03  731265.5 4058902.9    65.0     3.40     4.00
3.16     NO                    NO
 L0000176         0   0.15232E-03  731274.1 4058903.2    65.0     3.40     4.00
3.16     NO                    NO
 L0000177         0   0.15232E-03  731282.7 4058903.4    65.0     3.40     4.00
3.16     NO                    NO
 L0000178         0   0.15232E-03  731291.3 4058903.7    65.0     3.40     4.00
3.16     NO                    NO
 L0000179         0   0.15232E-03  731299.9 4058904.0    64.9     3.40     4.00
3.16     NO                    NO
 L0000180         0   0.15232E-03  731308.4 4058904.3    64.9     3.40     4.00
3.16     NO                    NO
 L0000181         0   0.15232E-03  731317.0 4058904.6    64.9     3.40     4.00
3.16     NO                    NO
 L0000182         0   0.15232E-03  731325.6 4058904.8    64.8     3.40     4.00
3.16     NO                    NO
 L0000183         0   0.15232E-03  731334.2 4058905.1    64.8     3.40     4.00
3.16     NO                    NO
 L0000184         0   0.15232E-03  731342.8 4058905.4    64.8     3.40     4.00
3.16     NO                    NO
 L0000185         0   0.15232E-03  731351.4 4058905.7    64.7     3.40     4.00
3.16     NO                    NO
 L0000186         0   0.15232E-03  731360.0 4058905.9    64.7     3.40     4.00
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3.16     NO                     NO
 L0000187         0   0.15232E-03  731368.6 4058906.2    64.7     3.40     4.00
3.16     NO                     NO
 L0000188         0   0.15232E-03  731377.2 4058906.5    64.7     3.40     4.00
3.16     NO                     NO
 L0000189         0   0.15232E-03  731385.8 4058906.8    64.7     3.40     4.00
3.16     NO                     NO
 L0000190         0   0.15232E-03  731394.4 4058907.1    64.6     3.40     4.00
3.16     NO                     NO
 L0000191         0   0.15232E-03  731403.0 4058907.3    64.6     3.40     4.00
3.16     NO                     NO
 L0000192         0   0.15232E-03  731411.6 4058907.6    64.6     3.40     4.00
3.16     NO                     NO
 L0000193         0   0.15232E-03  731420.2 4058907.9    64.5     3.40     4.00
3.16     NO                     NO
 L0000194         0   0.15232E-03  731428.8 4058908.2    64.5     3.40     4.00
3.16     NO                     NO
 L0000195         0   0.15232E-03  731437.4 4058908.4    64.5     3.40     4.00
3.16     NO                     NO
 L0000196         0   0.15232E-03  731446.0 4058908.7    64.5     3.40     4.00
3.16     NO                     NO
 L0000197         0   0.15232E-03  731454.6 4058909.0    64.4     3.40     4.00
3.16     NO                     NO
 L0000198         0   0.15232E-03  731463.2 4058909.3    64.4     3.40     4.00
3.16     NO                     NO
 L0000199         0   0.15232E-03  731471.8 4058909.5    64.4     3.40     4.00
3.16     NO                     NO
 L0000200         0   0.15232E-03  731480.4 4058909.8    64.4     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE   7
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0000201         0   0.15232E-03  731489.0 4058910.1    64.4     3.40     4.00
```

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3.16     NO                    NO
 L0000202         0   0.15232E-03  731497.5 4058910.4    64.3     3.40     4.00
3.16     NO                    NO
 L0000203         0   0.15232E-03  731506.1 4058910.7    64.3     3.40     4.00
3.16     NO                    NO
 L0000204         0   0.15232E-03  731514.7 4058910.9    64.3     3.40     4.00
3.16     NO                    NO
 L0000205         0   0.15232E-03  731523.3 4058911.2    64.2     3.40     4.00
3.16     NO                    NO
 L0000206         0   0.15232E-03  731531.9 4058911.5    64.2     3.40     4.00
3.16     NO                    NO
 L0000207         0   0.15232E-03  731540.5 4058911.8    64.2     3.40     4.00
3.16     NO                    NO
 L0000208         0   0.15232E-03  731549.1 4058912.0    64.1     3.40     4.00
3.16     NO                    NO
 L0000209         0   0.15232E-03  731557.7 4058912.3    64.1     3.40     4.00
3.16     NO                    NO
 L0000210         0   0.15232E-03  731566.3 4058912.6    64.1     3.40     4.00
3.16     NO                    NO
 L0000211         0   0.15232E-03  731574.9 4058912.9    64.0     3.40     4.00
3.16     NO                    NO
 L0000212         0   0.15232E-03  731583.5 4058913.2    64.0     3.40     4.00
3.16     NO                    NO
 L0000213         0   0.15232E-03  731592.1 4058913.4    64.0     3.40     4.00
3.16     NO                    NO
 L0000214         0   0.15232E-03  731600.7 4058913.7    64.0     3.40     4.00
3.16     NO                    NO
 L0000215         0   0.15232E-03  731609.3 4058914.0    64.0     3.40     4.00
3.16     NO                    NO
 L0000216         0   0.15232E-03  731617.9 4058914.3    63.9     3.40     4.00
3.16     NO                    NO
 L0000217         0   0.15232E-03  731626.5 4058914.5    63.9     3.40     4.00
3.16     NO                    NO
 L0000218         0   0.15232E-03  731635.1 4058914.8    63.9     3.40     4.00
3.16     NO                    NO
 L0000219         0   0.15232E-03  731643.7 4058915.1    63.8     3.40     4.00
3.16     NO                    NO
 L0000220         0   0.15232E-03  731652.3 4058915.4    63.8     3.40     4.00
3.16     NO                    NO
 L0000221         0   0.15232E-03  731660.9 4058915.6    63.8     3.40     4.00
3.16     NO                    NO
 L0000222         0   0.15232E-03  731669.5 4058915.9    63.8     3.40     4.00
3.16     NO                    NO
 L0000223         0   0.15232E-03  731678.1 4058916.2    63.7     3.40     4.00
3.16     NO                    NO
 L0000224         0   0.15232E-03  731686.6 4058916.5    63.7     3.40     4.00
3.16     NO                    NO
 L0000225         0   0.15232E-03  731695.2 4058916.8    63.7     3.40     4.00
3.16     NO                    NO
 L0000226         0   0.15232E-03  731703.8 4058917.0    63.7     3.40     4.00
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3.16 NO NO
L0000227 0 0.15232E-03 731712.4 4058917.3 63.7 3.40 4.00
3.16 NO NO
L0000228 0 0.15232E-03 731721.0 4058917.6 63.6 3.40 4.00
3.16 NO NO
L0000229 0 0.15232E-03 731729.6 4058917.9 63.6 3.40 4.00
3.16 NO NO
L0000230 0 0.15232E-03 731738.2 4058918.1 63.6 3.40 4.00
3.16 NO NO
L0000231 0 0.15232E-03 731746.8 4058918.4 63.5 3.40 4.00
3.16 NO NO
L0000232 0 0.15232E-03 731755.4 4058918.7 63.5 3.40 4.00
3.16 NO NO
L0000233 0 0.15232E-03 731764.0 4058919.0 63.5 3.40 4.00
3.16 NO NO
L0000234 0 0.15232E-03 731772.6 4058919.3 63.4 3.40 4.00
3.16 NO NO
L0000235 0 0.15232E-03 731781.2 4058919.5 63.4 3.40 4.00
3.16 NO NO
L0000236 0 0.15232E-03 731789.8 4058919.8 63.4 3.40 4.00
3.16 NO NO
L0000237 0 0.15232E-03 731798.4 4058920.1 63.4 3.40 4.00
3.16 NO NO
L0000238 0 0.15232E-03 731807.0 4058920.4 63.4 3.40 4.00
3.16 NO NO
L0000239 0 0.15232E-03 731815.6 4058920.6 63.4 3.40 4.00
3.16 NO NO
L0000240 0 0.15232E-03 731824.2 4058920.9 63.3 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT EMISSION RATE SCALAR VARY
L0000241	0	0.15232E-03	731832.8	4058921.2	63.3	3.40	4.00			

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3.16     NO                    NO
 L0000242         0   0.15232E-03  731841.4 4058921.5    63.2     3.40     4.00
3.16     NO                    NO
 L0000243         0   0.15232E-03  731850.0 4058921.7    63.2     3.40     4.00
3.16     NO                    NO
 L0000244         0   0.15232E-03  731858.6 4058922.0    63.2     3.40     4.00
3.16     NO                    NO
 L0000245         0   0.15232E-03  731867.2 4058922.3    63.2     3.40     4.00
3.16     NO                    NO
 L0000246         0   0.15232E-03  731875.8 4058922.6    63.2     3.40     4.00
3.16     NO                    NO
 L0000247         0   0.15232E-03  731884.3 4058922.9    63.2     3.40     4.00
3.16     NO                    NO
 L0000248         0   0.15232E-03  731892.9 4058923.1    63.1     3.40     4.00
3.16     NO                    NO
 L0000249         0   0.15232E-03  731901.5 4058923.4    63.1     3.40     4.00
3.16     NO                    NO
 L0000250         0   0.15232E-03  731910.1 4058923.7    63.1     3.40     4.00
3.16     NO                    NO
 L0000251         0   0.15232E-03  731918.7 4058924.0    63.0     3.40     4.00
3.16     NO                    NO
 L0000252         0   0.15232E-03  731927.3 4058924.2    63.0     3.40     4.00
3.16     NO                    NO
 L0000253         0   0.15232E-03  731935.9 4058924.5    63.0     3.40     4.00
3.16     NO                    NO
 L0000254         0   0.15232E-03  731944.5 4058924.8    63.0     3.40     4.00
3.16     NO                    NO
 L0000255         0   0.15232E-03  731953.1 4058925.1    63.0     3.40     4.00
3.16     NO                    NO
 L0000256         0   0.15232E-03  731961.7 4058925.4    63.0     3.40     4.00
3.16     NO                    NO
 L0000257         0   0.15232E-03  731970.3 4058925.6    62.9     3.40     4.00
3.16     NO                    NO
 L0000258         0   0.15232E-03  731978.9 4058925.9    62.9     3.40     4.00
3.16     NO                    NO
 L0000259         0   0.15232E-03  731987.5 4058926.2    62.9     3.40     4.00
3.16     NO                    NO
 L0000260         0   0.15232E-03  731996.1 4058926.5    62.9     3.40     4.00
3.16     NO                    NO
 L0000261         0   0.15232E-03  732001.1 4058923.0    62.9     3.40     4.00
3.16     NO                    NO
 L0000262         0   0.15232E-03  732001.2 4058914.4    62.9     3.40     4.00
3.16     NO                    NO
 L0000263         0   0.15232E-03  732001.3 4058905.8    62.9     3.40     4.00
3.16     NO                    NO
 L0000264         0   0.15232E-03  732001.4 4058897.2    62.9     3.40     4.00
3.16     NO                    NO
 L0000265         0   0.15232E-03  732001.5 4058888.6    62.9     3.40     4.00
3.16     NO                    NO
 L0000266         0   0.15232E-03  732001.6 4058880.0    62.9     3.40     4.00
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3.16 NO NO
L0000267 0 0.15232E-03 732001.6 4058871.4 62.9 3.40 4.00
3.16 NO NO
L0000268 0 0.15232E-03 732001.7 4058862.8 62.9 3.40 4.00
3.16 NO NO
L0000269 0 0.15232E-03 732001.8 4058854.2 62.9 3.40 4.00
3.16 NO NO
L0000270 0 0.15232E-03 732001.9 4058845.6 62.9 3.40 4.00
3.16 NO NO
L0000271 0 0.15232E-03 732002.0 4058837.0 62.9 3.40 4.00
3.16 NO NO
L0000272 0 0.15232E-03 732002.1 4058828.4 62.9 3.40 4.00
3.16 NO NO
L0000273 0 0.15232E-03 732002.2 4058819.8 62.9 3.40 4.00
3.16 NO NO
L0000274 0 0.15232E-03 732002.3 4058811.2 62.9 3.40 4.00
3.16 NO NO
L0000275 0 0.15232E-03 732002.4 4058802.6 62.9 3.40 4.00
3.16 NO NO
L0000276 0 0.15232E-03 732002.5 4058794.0 62.9 3.40 4.00
3.16 NO NO
L0000277 0 0.15232E-03 732002.6 4058785.4 62.9 3.40 4.00
3.16 NO NO
L0000278 0 0.15232E-03 732002.7 4058776.8 62.9 3.40 4.00
3.16 NO NO
L0000279 0 0.15232E-03 732002.8 4058768.2 62.9 3.40 4.00
3.16 NO NO
L0000280 0 0.15232E-03 732002.8 4058759.6 62.9 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT EMISSION RATE SCALAR VARY
L0000281	0	0.15232E-03	732002.9	4058751.0	63.0	3.40	4.00			

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3.16     NO                    NO
 L0000282         0   0.15232E-03  732003.0 4058742.4    63.0     3.40     4.00
3.16     NO                    NO
 L0000283         0   0.15232E-03  732003.1 4058733.8    63.0     3.40     4.00
3.16     NO                    NO
 L0000284         0   0.15232E-03  732003.2 4058725.2    63.0     3.40     4.00
3.16     NO                    NO
 L0000285         0   0.15232E-03  732003.3 4058716.6    63.0     3.40     4.00
3.16     NO                    NO
 L0000286         0   0.15232E-03  732003.4 4058708.0    63.0     3.40     4.00
3.16     NO                    NO
 L0000287         0   0.15232E-03  732003.5 4058699.4    63.0     3.40     4.00
3.16     NO                    NO
 L0000288         0   0.15232E-03  732003.6 4058690.8    63.0     3.40     4.00
3.16     NO                    NO
 L0000289         0   0.15232E-03  732003.7 4058682.2    63.0     3.40     4.00
3.16     NO                    NO
 L0000290         0   0.15232E-03  732003.8 4058673.6    63.0     3.40     4.00
3.16     NO                    NO
 L0000291         0   0.15232E-03  732003.9 4058665.0    63.0     3.40     4.00
3.16     NO                    NO
 L0000292         0   0.15232E-03  732003.9 4058656.4    63.0     3.40     4.00
3.16     NO                    NO
 L0000293         0   0.15232E-03  732004.0 4058647.8    63.0     3.40     4.00
3.16     NO                    NO
 L0000294         0   0.15232E-03  732004.1 4058639.2    63.0     3.40     4.00
3.16     NO                    NO
 L0000295         0   0.15232E-03  732004.2 4058630.6    63.0     3.40     4.00
3.16     NO                    NO
 L0000296         0   0.15232E-03  732004.3 4058622.0    63.0     3.40     4.00
3.16     NO                    NO
 L0000297         0   0.15232E-03  732004.4 4058613.4    63.0     3.40     4.00
3.16     NO                    NO
 L0000298         0   0.15232E-03  732004.5 4058604.8    63.0     3.40     4.00
3.16     NO                    NO
 L0000299         0   0.15232E-03  732004.6 4058596.2    63.0     3.40     4.00
3.16     NO                    NO
 L0000300         0   0.15232E-03  732004.7 4058587.6    63.0     3.40     4.00
3.16     NO                    NO
 L0000301         0   0.15232E-03  732004.8 4058579.0    63.0     3.40     4.00
3.16     NO                    NO
 L0000302         0   0.15232E-03  732004.9 4058570.4    63.0     3.40     4.00
3.16     NO                    NO
 L0000303         0   0.15232E-03  732005.0 4058561.8    63.0     3.40     4.00
3.16     NO                    NO
 L0000304         0   0.15232E-03  732005.1 4058553.2    63.1     3.40     4.00
3.16     NO                    NO
 L0000305         0   0.15232E-03  732005.1 4058544.6    63.1     3.40     4.00
3.16     NO                    NO
 L0000306         0   0.15232E-03  732005.2 4058536.0    63.1     3.40     4.00
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3.16     NO                     NO
 L0000307         0   0.15232E-03  732005.3 4058527.4    63.1     3.40     4.00
3.16     NO                     NO
 L0000308         0   0.15232E-03  732005.4 4058518.8    63.1     3.40     4.00
3.16     NO                     NO
 L0000309         0   0.15232E-03  732005.5 4058510.2    63.1     3.40     4.00
3.16     NO                     NO
 L0000310         0   0.15232E-03  732005.6 4058501.6    63.1     3.40     4.00
3.16     NO                     NO
 L0000311         0   0.15232E-03  732005.7 4058493.0    63.1     3.40     4.00
3.16     NO                     NO
 L0000312         0   0.15232E-03  732005.8 4058484.4    63.1     3.40     4.00
3.16     NO                     NO
 L0000313         0   0.15232E-03  732005.9 4058475.8    63.1     3.40     4.00
3.16     NO                     NO
 L0000314         0   0.15232E-03  732006.0 4058467.2    63.1     3.40     4.00
3.16     NO                     NO
 L0000315         0   0.15232E-03  732006.1 4058458.6    63.1     3.40     4.00
3.16     NO                     NO
 L0000316         0   0.15232E-03  732006.2 4058450.0    63.1     3.40     4.00
3.16     NO                     NO
 L0000317         0   0.15232E-03  732006.2 4058441.4    63.1     3.40     4.00
3.16     NO                     NO
 L0000318         0   0.15232E-03  732006.3 4058432.8    63.1     3.40     4.00
3.16     NO                     NO
 L0000319         0   0.15232E-03  732006.4 4058424.2    63.1     3.40     4.00
3.16     NO                     NO
 L0000320         0   0.15232E-03  732006.5 4058415.6    63.1     3.40     4.00
3.16     NO                     NO
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT SCALAR VARY
L0000321	0	0.15232E-03	732006.6	4058407.0	63.2	3.40	4.00			

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3.16     NO                    NO
 L0000322         0   0.15232E-03  732006.7 4058398.4    63.2     3.40     4.00
3.16     NO                    NO
 L0000323         0   0.15232E-03  732006.8 4058389.8    63.2     3.40     4.00
3.16     NO                    NO
 L0000324         0   0.15232E-03  732006.9 4058381.2    63.2     3.40     4.00
3.16     NO                    NO
 L0000325         0   0.15232E-03  732007.0 4058372.6    63.2     3.40     4.00
3.16     NO                    NO
 L0000326         0   0.15232E-03  732007.1 4058364.0    63.2     3.40     4.00
3.16     NO                    NO
 L0000327         0   0.15232E-03  732007.2 4058355.4    63.2     3.40     4.00
3.16     NO                    NO
 L0000328         0   0.15232E-03  732007.3 4058346.8    63.2     3.40     4.00
3.16     NO                    NO
 L0000329         0   0.15232E-03  732007.4 4058338.2    63.2     3.40     4.00
3.16     NO                    NO
 L0000330         0   0.15232E-03  732007.4 4058329.6    63.2     3.40     4.00
3.16     NO                    NO
 L0000331         0   0.15232E-03  732007.5 4058321.0    63.2     3.40     4.00
3.16     NO                    NO
 L0000332         0   0.15232E-03  732007.6 4058312.4    63.2     3.40     4.00
3.16     NO                    NO
 L0000333         0   0.15232E-03  732007.7 4058303.8    63.3     3.40     4.00
3.16     NO                    NO
 L0000334         0   0.15232E-03  732007.8 4058295.2    63.3     3.40     4.00
3.16     NO                    NO
 L0000335         0   0.15232E-03  732007.9 4058286.6    63.3     3.40     4.00
3.16     NO                    NO
 L0000336         0   0.15232E-03  732008.0 4058278.0    63.3     3.40     4.00
3.16     NO                    NO
 L0000337         0   0.15232E-03  732008.1 4058269.4    63.3     3.40     4.00
3.16     NO                    NO
 L0000338         0   0.15232E-03  732008.2 4058260.8    63.3     3.40     4.00
3.16     NO                    NO
 L0000339         0   0.15232E-03  732008.3 4058252.2    63.3     3.40     4.00
3.16     NO                    NO
 L0000340         0   0.15232E-03  732008.4 4058243.6    63.4     3.40     4.00
3.16     NO                    NO
 L0000341         0   0.15232E-03  732008.5 4058235.0    63.4     3.40     4.00
3.16     NO                    NO
 L0000342         0   0.15232E-03  732008.5 4058226.4    63.4     3.40     4.00
3.16     NO                    NO
 L0000343         0   0.15232E-03  732008.6 4058217.8    63.4     3.40     4.00
3.16     NO                    NO
 L0000344         0   0.15232E-03  732008.7 4058209.2    63.4     3.40     4.00
3.16     NO                    NO
 L0000345         0   0.15232E-03  732008.8 4058200.6    63.4     3.40     4.00
3.16     NO                    NO
 L0000346         0   0.15232E-03  732008.9 4058192.0    63.4     3.40     4.00
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3.16     NO                     NO
 L0000347         0   0.15232E-03  732009.0 4058183.4    63.4     3.40     4.00
3.16     NO                     NO
 L0000348         0   0.15232E-03  732009.1 4058174.8    63.4     3.40     4.00
3.16     NO                     NO
 L0000349         0   0.15232E-03  732009.2 4058166.2    63.4     3.40     4.00
3.16     NO                     NO
 L0000350         0   0.15232E-03  732009.3 4058157.6    63.4     3.40     4.00
3.16     NO                     NO
 L0000351         0   0.15232E-03  732009.4 4058149.0    63.4     3.40     4.00
3.16     NO                     NO
 L0000352         0   0.15232E-03  732009.5 4058140.4    63.4     3.40     4.00
3.16     NO                     NO
 L0000353         0   0.15232E-03  732009.6 4058131.8    63.4     3.40     4.00
3.16     NO                     NO
 L0000354         0   0.15232E-03  732009.7 4058123.2    63.4     3.40     4.00
3.16     NO                     NO
 L0000355         0   0.15232E-03  732009.7 4058114.6    63.5     3.40     4.00
3.16     NO                     NO
 L0000356         0   0.15232E-03  732009.8 4058106.0    63.5     3.40     4.00
3.16     NO                     NO
 L0000357         0   0.15232E-03  732009.9 4058097.4    63.5     3.40     4.00
3.16     NO                     NO
 L0000358         0   0.15232E-03  732010.0 4058088.8    63.5     3.40     4.00
3.16     NO                     NO
 L0000359         0   0.15232E-03  732010.1 4058080.2    63.5     3.40     4.00
3.16     NO                     NO
 L0000360         0   0.15232E-03  732010.2 4058071.6    63.5     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  11
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0000361         0   0.15232E-03  732010.3 4058063.0    63.5     3.40     4.00
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3.16     NO                    NO
 L0000362         0   0.15232E-03  732010.4 4058054.4    63.5     3.40     4.00
3.16     NO                    NO
 L0000363         0   0.15232E-03  732010.5 4058045.8    63.5     3.40     4.00
3.16     NO                    NO
 L0000364         0   0.15232E-03  732010.6 4058037.2    63.5     3.40     4.00
3.16     NO                    NO
 L0000365         0   0.15232E-03  732010.7 4058028.6    63.5     3.40     4.00
3.16     NO                    NO
 L0000366         0   0.15232E-03  732010.8 4058020.0    63.5     3.40     4.00
3.16     NO                    NO
 L0000367         0   0.15232E-03  732010.8 4058011.4    63.5     3.40     4.00
3.16     NO                    NO
 L0000368         0   0.15232E-03  732010.9 4058002.8    63.5     3.40     4.00
3.16     NO                    NO
 L0000369         0   0.15232E-03  732011.0 4057994.2    63.5     3.40     4.00
3.16     NO                    NO
 L0000370         0   0.15232E-03  732011.1 4057985.6    63.5     3.40     4.00
3.16     NO                    NO
 L0000371         0   0.15232E-03  732011.2 4057977.0    63.5     3.40     4.00
3.16     NO                    NO
 L0000372         0   0.15232E-03  732011.3 4057968.4    63.5     3.40     4.00
3.16     NO                    NO
 L0000373         0   0.15232E-03  732011.4 4057959.8    63.5     3.40     4.00
3.16     NO                    NO
 L0000374         0   0.15232E-03  732011.5 4057951.2    63.5     3.40     4.00
3.16     NO                    NO
 L0000375         0   0.15232E-03  732011.6 4057942.6    63.5     3.40     4.00
3.16     NO                    NO
 L0000376         0   0.15232E-03  732011.7 4057934.1    63.5     3.40     4.00
3.16     NO                    NO
 L0000377         0   0.15232E-03  732011.8 4057925.5    63.5     3.40     4.00
3.16     NO                    NO
 L0000378         0   0.15232E-03  732011.9 4057916.9    63.5     3.40     4.00
3.16     NO                    NO
 L0000379         0   0.15232E-03  732011.9 4057908.3    63.5     3.40     4.00
3.16     NO                    NO
 L0000380         0   0.15232E-03  732012.0 4057899.7    63.6     3.40     4.00
3.16     NO                    NO
 L0000381         0   0.15232E-03  732012.1 4057891.1    63.6     3.40     4.00
3.16     NO                    NO
 L0000382         0   0.15232E-03  732012.2 4057882.5    63.6     3.40     4.00
3.16     NO                    NO
 L0000383         0   0.15232E-03  732012.3 4057873.9    63.6     3.40     4.00
3.16     NO                    NO
 L0000384         0   0.15232E-03  732012.4 4057865.3    63.6     3.40     4.00
3.16     NO                    NO
 L0000385         0   0.15232E-03  732012.5 4057856.7    63.6     3.40     4.00
3.16     NO                    NO
 L0000386         0   0.15232E-03  732012.6 4057848.1    63.6     3.40     4.00
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3.16 NO NO
L0000387 0 0.15232E-03 732012.7 4057839.5 63.6 3.40 4.00
3.16 NO NO
L0000388 0 0.15232E-03 732012.8 4057830.9 63.6 3.40 4.00
3.16 NO NO
L0000389 0 0.15232E-03 732012.9 4057822.3 63.6 3.40 4.00
3.16 NO NO
L0000390 0 0.15232E-03 732013.0 4057813.7 63.6 3.40 4.00
3.16 NO NO
L0000391 0 0.15232E-03 732013.1 4057805.1 63.6 3.40 4.00
3.16 NO NO
L0000392 0 0.15232E-03 732013.1 4057796.5 63.6 3.40 4.00
3.16 NO NO
L0000393 0 0.15232E-03 732013.2 4057787.9 63.6 3.40 4.00
3.16 NO NO
L0000394 0 0.15232E-03 732013.3 4057779.3 63.6 3.40 4.00
3.16 NO NO
L0000395 0 0.15232E-03 732013.4 4057770.7 63.6 3.40 4.00
3.16 NO NO
L0000396 0 0.15232E-03 732013.5 4057762.1 63.6 3.40 4.00
3.16 NO NO
L0000397 0 0.15232E-03 732013.6 4057753.5 63.6 3.40 4.00
3.16 NO NO
L0000398 0 0.15232E-03 732013.7 4057744.9 63.6 3.40 4.00
3.16 NO NO
L0000399 0 0.15232E-03 732013.8 4057736.3 63.6 3.40 4.00
3.16 NO NO
L0000400 0 0.15232E-03 732013.9 4057727.7 63.6 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE SCALAR VARY BY	AIRCRAFT
L0000401	0	0.15232E-03	732014.0	4057719.1	63.6	3.40	4.00			

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3.16     NO                    NO
 L0000402         0   0.15232E-03  732014.1 4057710.5    63.6     3.40     4.00
3.16     NO                    NO
 L0000403         0   0.15232E-03  732014.2 4057701.9    63.6     3.40     4.00
3.16     NO                    NO
 L0000404         0   0.15232E-03  732014.2 4057693.3    63.6     3.40     4.00
3.16     NO                    NO
 L0000405         0   0.15232E-03  732014.3 4057684.7    63.6     3.40     4.00
3.16     NO                    NO
 L0000406         0   0.15232E-03  732014.4 4057676.1    63.6     3.40     4.00
3.16     NO                    NO
 L0000407         0   0.15232E-03  732014.5 4057667.5    63.6     3.40     4.00
3.16     NO                    NO
 L0000408         0   0.15232E-03  732014.6 4057658.9    63.6     3.40     4.00
3.16     NO                    NO
 L0000409         0   0.15232E-03  732014.7 4057650.3    63.6     3.40     4.00
3.16     NO                    NO
 L0000410         0   0.15232E-03  732014.8 4057641.7    63.6     3.40     4.00
3.16     NO                    NO
 L0000411         0   0.15232E-03  732014.9 4057633.1    63.6     3.40     4.00
3.16     NO                    NO
 L0000412         0   0.15232E-03  732015.0 4057624.5    63.6     3.40     4.00
3.16     NO                    NO
 L0000413         0   0.15232E-03  732015.1 4057615.9    63.6     3.40     4.00
3.16     NO                    NO
 L0000414         0   0.15232E-03  732015.2 4057607.3    63.6     3.40     4.00
3.16     NO                    NO
 L0000415         0   0.15232E-03  732015.3 4057598.7    63.6     3.40     4.00
3.16     NO                    NO
 L0000416         0   0.15232E-03  732015.4 4057590.1    63.6     3.40     4.00
3.16     NO                    NO
 L0000417         0   0.15232E-03  732015.4 4057581.5    63.6     3.40     4.00
3.16     NO                    NO
 L0000418         0   0.15232E-03  732015.5 4057572.9    63.6     3.40     4.00
3.16     NO                    NO
 L0000419         0   0.15232E-03  732015.6 4057564.3    63.6     3.40     4.00
3.16     NO                    NO
 L0000420         0   0.15232E-03  732015.7 4057555.7    63.6     3.40     4.00
3.16     NO                    NO
 L0000421         0   0.15232E-03  732015.8 4057547.1    63.6     3.40     4.00
3.16     NO                    NO
 L0000422         0   0.15232E-03  732015.9 4057538.5    63.6     3.40     4.00
3.16     NO                    NO
 L0000423         0   0.15232E-03  732016.0 4057529.9    63.6     3.40     4.00
3.16     NO                    NO
 L0000424         0   0.15232E-03  732016.1 4057521.3    63.6     3.40     4.00
3.16     NO                    NO
 L0000425         0   0.15232E-03  732016.2 4057512.7    63.6     3.40     4.00
3.16     NO                    NO
 L0000426         0   0.15232E-03  732016.3 4057504.1    63.6     3.40     4.00
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3.16     NO                     NO
 L0000427         0   0.15232E-03  732016.4 4057495.5    63.6     3.40     4.00
3.16     NO                     NO
 L0000428         0   0.15232E-03  732016.5 4057486.9    63.6     3.40     4.00
3.16     NO                     NO
 L0000429         0   0.15232E-03  732016.5 4057478.3    63.6     3.40     4.00
3.16     NO                     NO
 L0000430         0   0.15232E-03  732016.6 4057469.7    63.6     3.40     4.00
3.16     NO                     NO
 L0000431         0   0.15232E-03  732016.7 4057461.1    63.6     3.40     4.00
3.16     NO                     NO
 L0000432         0   0.15232E-03  732016.8 4057452.5    63.6     3.40     4.00
3.16     NO                     NO
 L0000433         0   0.15232E-03  732016.9 4057443.9    63.7     3.40     4.00
3.16     NO                     NO
 L0000434         0   0.15232E-03  732017.0 4057435.3    63.7     3.40     4.00
3.16     NO                     NO
 L0000435         0   0.15232E-03  732017.1 4057426.7    63.7     3.40     4.00
3.16     NO                     NO
 L0000436         0   0.15232E-03  732017.2 4057418.1    63.7     3.40     4.00
3.16     NO                     NO
 L0000437         0   0.15232E-03  732017.3 4057409.5    63.7     3.40     4.00
3.16     NO                     NO
 L0000438         0   0.15232E-03  732017.4 4057400.9    63.7     3.40     4.00
3.16     NO                     NO
 L0000439         0   0.15232E-03  732017.5 4057392.3    63.7     3.40     4.00
3.16     NO                     NO
 L0000440         0   0.15232E-03  732017.6 4057383.7    63.7     3.40     4.00
3.16     NO                     NO
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*** VOLUME SOURCE DATA ***

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

 L0000441         0   0.15232E-03  732017.7 4057375.1    63.7     3.40     4.00
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3.16     NO                    NO
 L0000442         0   0.15232E-03  732017.7 4057366.5    63.7     3.40     4.00
3.16     NO                    NO
 L0000443         0   0.15232E-03  732017.8 4057357.9    63.7     3.40     4.00
3.16     NO                    NO
 L0000444         0   0.15232E-03  732017.9 4057349.3    63.7     3.40     4.00
3.16     NO                    NO
 L0000445         0   0.15232E-03  732018.0 4057340.7    63.7     3.40     4.00
3.16     NO                    NO
 L0000446         0   0.15232E-03  732018.1 4057332.1    63.7     3.40     4.00
3.16     NO                    NO
 L0000447         0   0.15232E-03  732018.2 4057323.5    63.7     3.40     4.00
3.16     NO                    NO
 L0000448         0   0.15232E-03  732018.3 4057314.9    63.7     3.40     4.00
3.16     NO                    NO
 L0000449         0   0.15232E-03  732018.4 4057306.3    63.7     3.40     4.00
3.16     NO                    NO
 L0000450         0   0.15232E-03  732026.9 4057306.8    63.7     3.40     4.00
3.16     NO                    NO
 L0000451         0   0.15232E-03  732035.5 4057307.4    63.7     3.40     4.00
3.16     NO                    NO
 L0000452         0   0.15232E-03  732044.1 4057307.9    63.6     3.40     4.00
3.16     NO                    NO
 L0000453         0   0.15232E-03  732052.7 4057308.5    63.6     3.40     4.00
3.16     NO                    NO
 L0000454         0   0.15232E-03  732061.3 4057309.1    63.6     3.40     4.00
3.16     NO                    NO
 L0000455         0   0.15232E-03  732069.8 4057309.7    63.6     3.40     4.00
3.16     NO                    NO
 L0000456         0   0.15232E-03  732078.4 4057310.2    63.6     3.40     4.00
3.16     NO                    NO
 L0000457         0   0.15232E-03  732087.0 4057310.8    63.6     3.40     4.00
3.16     NO                    NO
 L0000458         0   0.15232E-03  732095.6 4057311.4    63.6     3.40     4.00
3.16     NO                    NO
 L0000459         0   0.15232E-03  732104.2 4057311.9    63.6     3.40     4.00
3.16     NO                    NO
 L0000460         0   0.15232E-03  732112.7 4057312.5    63.5     3.40     4.00
3.16     NO                    NO
 L0000461         0   0.15232E-03  732121.3 4057313.1    63.5     3.40     4.00
3.16     NO                    NO
 L0000462         0   0.15232E-03  732129.9 4057313.6    63.5     3.40     4.00
3.16     NO                    NO
 L0000463         0   0.15232E-03  732138.5 4057314.2    63.5     3.40     4.00
3.16     NO                    NO
 L0000464         0   0.15232E-03  732147.1 4057314.8    63.5     3.40     4.00
3.16     NO                    NO
 L0000465         0   0.15232E-03  732155.6 4057315.3    63.5     3.40     4.00
3.16     NO                    NO
 L0000466         0   0.15232E-03  732164.2 4057315.9    63.5     3.40     4.00
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3.16     NO                     NO
 L0000467         0   0.15232E-03  732172.8 4057316.5    63.5     3.40     4.00
3.16     NO                     NO
 L0000468         0   0.15232E-03  732181.4 4057317.0    63.5     3.40     4.00
3.16     NO                     NO
 L0000469         0   0.15232E-03  732190.0 4057317.6    63.5     3.40     4.00
3.16     NO                     NO
 L0000470         0   0.15232E-03  732198.6 4057318.2    63.4     3.40     4.00
3.16     NO                     NO
 L0000471         0   0.15232E-03  732207.1 4057318.7    63.4     3.40     4.00
3.16     NO                     NO
 L0000472         0   0.15232E-03  732215.7 4057319.3    63.4     3.40     4.00
3.16     NO                     NO
 L0000473         0   0.15232E-03  732224.3 4057319.9    63.4     3.40     4.00
3.16     NO                     NO
 L0000474         0   0.15232E-03  732232.9 4057320.4    63.4     3.40     4.00
3.16     NO                     NO
 L0000475         0   0.15232E-03  732241.5 4057321.0    63.4     3.40     4.00
3.16     NO                     NO
 L0000476         0   0.15232E-03  732250.0 4057321.6    63.4     3.40     4.00
3.16     NO                     NO
 L0000477         0   0.15232E-03  732258.6 4057322.1    63.4     3.40     4.00
3.16     NO                     NO
 L0000478         0   0.15232E-03  732267.2 4057322.7    63.4     3.40     4.00
3.16     NO                     NO
 L0000479         0   0.15232E-03  732275.8 4057323.3    63.4     3.40     4.00
3.16     NO                     NO
 L0000480         0   0.15232E-03  732284.4 4057323.8    63.3     3.40     4.00
3.16     NO                     NO
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE SCALAR VARY BY	AIRCRAFT
L0000481	0	0.15232E-03	732292.9	4057324.4	63.3	3.40	4.00			

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3.16     NO                    NO
 L0000482         0   0.15232E-03  732301.5 4057325.0    63.3     3.40     4.00
3.16     NO                    NO
 L0000483         0   0.15232E-03  732310.1 4057325.6    63.3     3.40     4.00
3.16     NO                    NO
 L0000484         0   0.15232E-03  732318.7 4057326.1    63.3     3.40     4.00
3.16     NO                    NO
 L0000485         0   0.15232E-03  732327.3 4057326.7    63.3     3.40     4.00
3.16     NO                    NO
 L0000486         0   0.15232E-03  732335.9 4057327.3    63.3     3.40     4.00
3.16     NO                    NO
 L0000487         0   0.15232E-03  732344.4 4057327.8    63.3     3.40     4.00
3.16     NO                    NO
 L0000488         0   0.15232E-03  732353.0 4057328.4    63.3     3.40     4.00
3.16     NO                    NO
 L0000489         0   0.15232E-03  732361.6 4057329.0    63.2     3.40     4.00
3.16     NO                    NO
 L0000490         0   0.15232E-03  732370.2 4057329.5    63.2     3.40     4.00
3.16     NO                    NO
 L0000491         0   0.15232E-03  732378.8 4057330.1    63.2     3.40     4.00
3.16     NO                    NO
 L0000492         0   0.15232E-03  732387.3 4057330.7    63.1     3.40     4.00
3.16     NO                    NO
 L0000493         0   0.15232E-03  732395.9 4057331.2    63.1     3.40     4.00
3.16     NO                    NO
 L0000494         0   0.15232E-03  732404.5 4057331.8    63.1     3.40     4.00
3.16     NO                    NO
 L0000495         0   0.15232E-03  732413.1 4057332.4    63.1     3.40     4.00
3.16     NO                    NO
 L0000496         0   0.15232E-03  732421.7 4057332.9    63.1     3.40     4.00
3.16     NO                    NO
 L0000497         0   0.15232E-03  732430.2 4057333.5    63.0     3.40     4.00
3.16     NO                    NO
 L0000498         0   0.15232E-03  732438.8 4057334.1    63.0     3.40     4.00
3.16     NO                    NO
 L0000499         0   0.15232E-03  732447.4 4057334.6    63.0     3.40     4.00
3.16     NO                    NO
 L0000500         0   0.15232E-03  732456.0 4057335.2    63.0     3.40     4.00
3.16     NO                    NO
 L0000501         0   0.15232E-03  732464.6 4057335.8    62.9     3.40     4.00
3.16     NO                    NO
 L0000502         0   0.15232E-03  732473.2 4057336.3    62.9     3.40     4.00
3.16     NO                    NO
 L0000503         0   0.15232E-03  732481.7 4057336.9    62.9     3.40     4.00
3.16     NO                    NO
 L0000504         0   0.15232E-03  732490.3 4057337.5    62.9     3.40     4.00
3.16     NO                    NO
 L0000505         0   0.15232E-03  732498.9 4057338.0    62.9     3.40     4.00
3.16     NO                    NO
 L0000506         0   0.15232E-03  732507.5 4057338.6    62.8     3.40     4.00
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3.16     NO                     NO
 L0000507         0   0.15232E-03  732516.1 4057339.2    62.8     3.40     4.00
3.16     NO                     NO
 L0000508         0   0.15232E-03  732524.6 4057339.7    62.8     3.40     4.00
3.16     NO                     NO
 L0000509         0   0.15232E-03  732533.2 4057340.3    62.7     3.40     4.00
3.16     NO                     NO
 L0000510         0   0.15232E-03  732541.8 4057340.9    62.7     3.40     4.00
3.16     NO                     NO
 L0000511         0   0.15232E-03  732550.4 4057341.5    62.7     3.40     4.00
3.16     NO                     NO
 L0000512         0   0.15232E-03  732559.0 4057342.0    62.6     3.40     4.00
3.16     NO                     NO
 L0000513         0   0.15232E-03  732567.5 4057342.6    62.6     3.40     4.00
3.16     NO                     NO
 L0000514         0   0.15232E-03  732576.1 4057343.2    62.6     3.40     4.00
3.16     NO                     NO
 L0000515         0   0.15232E-03  732584.7 4057343.7    62.5     3.40     4.00
3.16     NO                     NO
 L0000516         0   0.15232E-03  732593.3 4057344.3    62.5     3.40     4.00
3.16     NO                     NO
 L0000517         0   0.15232E-03  732601.9 4057344.9    62.5     3.40     4.00
3.16     NO                     NO
 L0000518         0   0.15232E-03  732610.5 4057345.4    62.5     3.40     4.00
3.16     NO                     NO
 L0000519         0   0.15232E-03  732619.0 4057346.0    62.5     3.40     4.00
3.16     NO                     NO
 L0000520         0   0.15232E-03  732627.6 4057346.6    62.5     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  15
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0000521         0   0.15232E-03  732636.2 4057347.1    62.4     3.40     4.00
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3.16     NO                    NO
 L0000522         0   0.15232E-03  732644.8 4057347.7    62.4     3.40     4.00
3.16     NO                    NO
 L0000523         0   0.15232E-03  732653.4 4057348.3    62.4     3.40     4.00
3.16     NO                    NO
 L0000524         0   0.15232E-03  732661.9 4057348.8    62.4     3.40     4.00
3.16     NO                    NO
 L0000525         0   0.15232E-03  732670.5 4057349.4    62.3     3.40     4.00
3.16     NO                    NO
 L0000526         0   0.15232E-03  732679.1 4057350.0    62.3     3.40     4.00
3.16     NO                    NO
 L0000527         0   0.15232E-03  732687.7 4057350.5    62.3     3.40     4.00
3.16     NO                    NO
 L0000528         0   0.15232E-03  732696.3 4057351.1    62.3     3.40     4.00
3.16     NO                    NO
 L0000529         0   0.15232E-03  732704.8 4057351.7    62.2     3.40     4.00
3.16     NO                    NO
 L0000530         0   0.15232E-03  732713.4 4057352.2    62.2     3.40     4.00
3.16     NO                    NO
 L0000531         0   0.15232E-03  732722.0 4057352.8    62.2     3.40     4.00
3.16     NO                    NO
 L0000532         0   0.15232E-03  732730.6 4057353.4    62.2     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0000534         0   0.15232E-03  732747.8 4057354.5    62.1     3.40     4.00
3.16     NO                    NO
 L0000535         0   0.15232E-03  732756.3 4057355.1    62.0     3.40     4.00
3.16     NO                    NO
 L0000536         0   0.15232E-03  732764.9 4057355.6    62.0     3.40     4.00
3.16     NO                    NO
 L0000537         0   0.15232E-03  732773.5 4057356.2    62.0     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0000540         0   0.15232E-03  732799.2 4057357.9    62.0     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0000542         0   0.15232E-03  732816.4 4057359.1    61.9     3.40     4.00
3.16     NO                    NO
 L0000543         0   0.15232E-03  732825.0 4057359.6    61.9     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0000545         0   0.15232E-03  732842.1 4057360.8    61.8     3.40     4.00
3.16     NO                    NO
 L0000546         0   0.15232E-03  732850.7 4057361.3    61.8     3.40     4.00
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3.16     NO                     NO
 L0000547         0   0.15232E-03  732859.3 4057361.9    61.8     3.40     4.00
3.16     NO                     NO
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3.16     NO                     NO
 L0000549         0   0.15232E-03  732876.5 4057363.0    61.8     3.40     4.00
3.16     NO                     NO
 L0000550         0   0.15232E-03  732885.1 4057363.6    61.7     3.40     4.00
3.16     NO                     NO
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3.16     NO                     NO
 L0000552         0   0.15232E-03  732902.2 4057364.7    61.7     3.40     4.00
3.16     NO                     NO
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3.16     NO                     NO
 L0000554         0   0.15232E-03  732919.4 4057365.9    61.6     3.40     4.00
3.16     NO                     NO
 L0000555         0   0.15232E-03  732928.0 4057366.4    61.5     3.40     4.00
3.16     NO                     NO
 L0000556         0   0.15232E-03  732936.5 4057367.0    61.5     3.40     4.00
3.16     NO                     NO
 L0000557         0   0.15232E-03  732945.1 4057367.6    61.5     3.40     4.00
3.16     NO                     NO
 L0000558         0   0.15232E-03  732953.7 4057368.1    61.5     3.40     4.00
3.16     NO                     NO
 L0000559         0   0.15232E-03  732962.3 4057368.7    61.5     3.40     4.00
3.16     NO                     NO
 L0000560         0   0.15232E-03  732970.9 4057369.3    61.5     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0000561         0   0.15232E-03  732979.4 4057369.8    61.4     3.40     4.00
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3.16     NO                    NO
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3.16     NO                    NO
 L0000563         0   0.15232E-03  732996.6 4057371.0    61.4     3.40     4.00
3.16     NO                    NO
 L0000564         0   0.15232E-03  733005.2 4057371.5    61.3     3.40     4.00
3.16     NO                    NO
 L0000565         0   0.15232E-03  733013.8 4057372.1    61.3     3.40     4.00
3.16     NO                    NO
 L0000566         0   0.15232E-03  733022.4 4057372.7    61.3     3.40     4.00
3.16     NO                    NO
 L0000567         0   0.15232E-03  733030.9 4057373.3    61.3     3.40     4.00
3.16     NO                    NO
 L0000568         0   0.15232E-03  733039.5 4057373.8    61.3     3.40     4.00
3.16     NO                    NO
 L0000569         0   0.15232E-03  733048.1 4057374.4    61.2     3.40     4.00
3.16     NO                    NO
 L0000570         0   0.15232E-03  733056.7 4057375.0    61.2     3.40     4.00
3.16     NO                    NO
 L0000571         0   0.15232E-03  733065.3 4057375.5    61.2     3.40     4.00
3.16     NO                    NO
 L0000572         0   0.15232E-03  733073.8 4057376.1    61.2     3.40     4.00
3.16     NO                    NO
 L0000573         0   0.15232E-03  733082.4 4057376.7    61.1     3.40     4.00
3.16     NO                    NO
 L0000574         0   0.15232E-03  733091.0 4057377.2    61.1     3.40     4.00
3.16     NO                    NO
 L0000575         0   0.15232E-03  733099.6 4057377.8    61.1     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0000577         0   0.15232E-03  733116.7 4057378.9    61.0     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0000579         0   0.15232E-03  733133.9 4057380.1    61.0     3.40     4.00
3.16     NO                    NO
 L0000580         0   0.15232E-03  733142.5 4057380.6    61.0     3.40     4.00
3.16     NO                    NO
 L0000581         0   0.15232E-03  733151.1 4057381.2    60.9     3.40     4.00
3.16     NO                    NO
 L0000582         0   0.15232E-03  733159.7 4057381.8    60.9     3.40     4.00
3.16     NO                    NO
 L0000583         0   0.15232E-03  733168.2 4057382.3    60.9     3.40     4.00
3.16     NO                    NO
 L0000584         0   0.15232E-03  733176.8 4057382.9    60.8     3.40     4.00
3.16     NO                    NO
 L0000585         0   0.15232E-03  733185.4 4057383.5    60.8     3.40     4.00
3.16     NO                    NO
 L0000586         0   0.15232E-03  733194.0 4057384.0    60.8     3.40     4.00
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3.16 NO NO
L0000587 0 0.15232E-03 733197.1 4057378.5 60.8 3.40 4.00
3.16 NO NO
L0000588 0 0.15232E-03 733197.5 4057369.9 60.8 3.40 4.00
3.16 NO NO
L0000589 0 0.15232E-03 733198.0 4057361.3 60.8 3.40 4.00
3.16 NO NO
L0000590 0 0.15232E-03 733198.4 4057352.7 60.8 3.40 4.00
3.16 NO NO
L0000591 0 0.15232E-03 733198.8 4057344.2 60.8 3.40 4.00
3.16 NO NO
L0000592 0 0.15232E-03 733199.2 4057335.6 60.8 3.40 4.00
3.16 NO NO
L0000593 0 0.15232E-03 733199.7 4057327.0 60.8 3.40 4.00
3.16 NO NO
L0000594 0 0.15232E-03 733200.1 4057318.4 60.9 3.40 4.00
3.16 NO NO
L0000595 0 0.15232E-03 733200.5 4057309.8 60.9 3.40 4.00
3.16 NO NO
L0000596 0 0.15232E-03 733200.9 4057301.2 60.9 3.40 4.00
3.16 NO NO
L0000597 0 0.15232E-03 733201.3 4057292.6 60.9 3.40 4.00
3.16 NO NO
L0000598 0 0.15232E-03 733201.8 4057284.0 60.9 3.40 4.00
3.16 NO NO
L0000599 0 0.15232E-03 733202.2 4057275.4 60.9 3.40 4.00
3.16 NO NO
L0000600 0 0.15232E-03 733202.6 4057266.8 60.9 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT EMISSION RATE SCALAR VARY
L0000601	0	0.15232E-03	733203.0	4057258.3	60.9	3.40	4.00			

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3.16     NO                    NO
 L0000603         0   0.15232E-03  733203.9 4057241.1    60.9     3.40     4.00
3.16     NO                    NO
 L0000604         0   0.15232E-03  733204.3 4057232.5    60.9     3.40     4.00
3.16     NO                    NO
 L0000605         0   0.15232E-03  733204.7 4057223.9    60.8     3.40     4.00
3.16     NO                    NO
 L0000606         0   0.15232E-03  733205.2 4057215.3    60.8     3.40     4.00
3.16     NO                    NO
 L0000607         0   0.15232E-03  733205.6 4057206.7    60.8     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0000609         0   0.15232E-03  733206.4 4057189.5    60.8     3.40     4.00
3.16     NO                    NO
 L0000610         0   0.15232E-03  733206.8 4057180.9    60.8     3.40     4.00
3.16     NO                    NO
 L0000611         0   0.15232E-03  733207.3 4057172.4    60.8     3.40     4.00
3.16     NO                    NO
 L0000612         0   0.15232E-03  733207.7 4057163.8    60.8     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0000614         0   0.15232E-03  733208.5 4057146.6    60.8     3.40     4.00
3.16     NO                    NO
 L0000615         0   0.15232E-03  733209.0 4057138.0    60.8     3.40     4.00
3.16     NO                    NO
 L0000616         0   0.15232E-03  733209.4 4057129.4    60.8     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0000618         0   0.15232E-03  733210.2 4057112.2    60.8     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0000620         0   0.15232E-03  733211.1 4057095.1    60.8     3.40     4.00
3.16     NO                    NO
 L0000621         0   0.15232E-03  733211.5 4057086.5    60.8     3.40     4.00
3.16     NO                    NO
 L0000622         0   0.15232E-03  733211.9 4057077.9    60.8     3.40     4.00
3.16     NO                    NO
 L0000623         0   0.15232E-03  733212.3 4057069.3    60.8     3.40     4.00
3.16     NO                    NO
 L0000624         0   0.15232E-03  733212.8 4057060.7    60.8     3.40     4.00
3.16     NO                    NO
 L0000625         0   0.15232E-03  733213.2 4057052.1    60.8     3.40     4.00
3.16     NO                    NO
 L0000626         0   0.15232E-03  733213.6 4057043.5    60.8     3.40     4.00
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3.16     NO                     NO
 L0000627         0   0.15232E-03  733214.0 4057034.9    60.8     3.40     4.00
3.16     NO                     NO
 L0000628         0   0.15232E-03  733214.4 4057026.3    60.8     3.40     4.00
3.16     NO                     NO
 L0000629         0   0.15232E-03  733214.9 4057017.7    60.8     3.40     4.00
3.16     NO                     NO
 L0000630         0   0.15232E-03  733215.3 4057009.2    60.8     3.40     4.00
3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  18
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0000641         0   0.15232E-03  733219.9 4056914.7    60.9     3.40     4.00
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3.16     NO                    NO
 L0000643         0   0.15232E-03  733220.8 4056897.5    60.9     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0000646         0   0.15232E-03  733222.0 4056871.7    60.9     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0000649         0   0.15232E-03  733232.5 4056856.2    60.8     3.40     4.00
3.16     NO                    NO
 L0000650         0   0.15232E-03  733241.1 4056856.6    60.8     3.40     4.00
3.16     NO                    NO
 L0000651         0   0.15232E-03  733249.7 4056857.1    60.8     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0000653         0   0.15232E-03  733266.9 4056858.0    60.8     3.40     4.00
3.16     NO                    NO
 L0000654         0   0.15232E-03  733275.5 4056858.4    60.7     3.40     4.00
3.16     NO                    NO
 L0000655         0   0.15232E-03  733284.1 4056858.9    60.7     3.40     4.00
3.16     NO                    NO
 L0000656         0   0.15232E-03  733292.7 4056859.3    60.7     3.40     4.00
3.16     NO                    NO
 L0000657         0   0.15232E-03  733301.2 4056859.8    60.7     3.40     4.00
3.16     NO                    NO
 L0000658         0   0.15232E-03  733309.8 4056860.2    60.7     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0000665         0   0.15232E-03  733370.0 4056863.4    60.5     3.40     4.00
3.16     NO                    NO
 L0000666         0   0.15232E-03  733378.5 4056863.9    60.5     3.40     4.00
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3.16   NO   NO
 L0000667   0   0.15232E-03 733387.1 4056864.3   60.5   3.40   4.00
3.16   NO   NO
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3.16   NO   NO
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3.16   NO   NO
 L0000670   0   0.15232E-03 733387.2 4056889.8   60.5   3.40   4.00
3.16   NO   NO
 L0000671   0   0.15232E-03 733387.1 4056898.4   60.5   3.40   4.00
3.16   NO   NO
 L0000672   0   0.15232E-03 733386.9 4056907.0   60.5   3.40   4.00
3.16   NO   NO
 L0000673   0   0.15232E-03 733386.8 4056915.6   60.5   3.40   4.00
3.16   NO   NO
 L0000674   0   0.15232E-03 733386.7 4056924.2   60.5   3.40   4.00
3.16   NO   NO
 L0000675   0   0.15232E-03 733386.6 4056932.8   60.5   3.40   4.00
3.16   NO   NO
 L0000676   0   0.15232E-03 733386.5 4056941.4   60.5   3.40   4.00
3.16   NO   NO
 L0000677   0   0.15232E-03 733386.4 4056950.0   60.5   3.40   4.00
3.16   NO   NO
 L0000678   0   0.15232E-03 733386.3 4056958.6   60.5   3.40   4.00
3.16   NO   NO
 L0000679   0   0.15232E-03 733386.2 4056967.2   60.5   3.40   4.00
3.16   NO   NO
 L0000680   0   0.15232E-03 733386.1 4056975.8   60.5   3.40   4.00
3.16   NO   NO

                                                    *** VOLUME SOURCE DATA ***

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

 L0000681   0   0.15232E-03 733386.0 4056984.4   60.5   3.40   4.00

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3.16     NO                    NO
 L0000682         0   0.15232E-03  733385.9 4056993.0    60.5     3.40     4.00
3.16     NO                    NO
 L0000683         0   0.15232E-03  733385.8 4057001.6    60.4     3.40     4.00
3.16     NO                    NO
 L0000684         0   0.15232E-03  733385.7 4057010.2    60.4     3.40     4.00
3.16     NO                    NO
 L0000685         0   0.15232E-03  733385.6 4057018.8    60.4     3.40     4.00
3.16     NO                    NO
 L0000686         0   0.15232E-03  733385.5 4057027.4    60.4     3.40     4.00
3.16     NO                    NO
 L0000687         0   0.15232E-03  733385.4 4057036.0    60.4     3.40     4.00
3.16     NO                    NO
 L0000688         0   0.15232E-03  733385.3 4057044.6    60.4     3.40     4.00
3.16     NO                    NO
 L0000689         0   0.15232E-03  733385.1 4057053.2    60.4     3.40     4.00
3.16     NO                    NO
 L0000690         0   0.15232E-03  733385.0 4057061.8    60.4     3.40     4.00
3.16     NO                    NO
 L0000691         0   0.15232E-03  733384.9 4057070.4    60.4     3.40     4.00
3.16     NO                    NO
 L0000692         0   0.15232E-03  733384.8 4057079.0    60.4     3.40     4.00
3.16     NO                    NO
 L0000693         0   0.15232E-03  733384.7 4057087.6    60.4     3.40     4.00
3.16     NO                    NO
 L0000694         0   0.15232E-03  733384.6 4057096.2    60.4     3.40     4.00
3.16     NO                    NO
 L0000695         0   0.15232E-03  733384.5 4057104.8    60.4     3.40     4.00
3.16     NO                    NO
 L0000696         0   0.15232E-03  733384.4 4057113.4    60.4     3.40     4.00
3.16     NO                    NO
 L0000697         0   0.15232E-03  733384.3 4057122.0    60.4     3.40     4.00
3.16     NO                    NO
 L0000698         0   0.15232E-03  733384.2 4057130.6    60.4     3.40     4.00
3.16     NO                    NO
 L0000699         0   0.15232E-03  733384.1 4057139.2    60.4     3.40     4.00
3.16     NO                    NO
 L0000700         0   0.15232E-03  733384.0 4057147.8    60.4     3.40     4.00
3.16     NO                    NO
 L0000701         0   0.15232E-03  733383.9 4057156.4    60.4     3.40     4.00
3.16     NO                    NO
 L0000702         0   0.15232E-03  733383.8 4057165.0    60.4     3.40     4.00
3.16     NO                    NO
 L0000703         0   0.15232E-03  733383.7 4057173.6    60.4     3.40     4.00
3.16     NO                    NO
 L0000704         0   0.15232E-03  733383.6 4057182.2    60.4     3.40     4.00
3.16     NO                    NO
 L0000705         0   0.15232E-03  733383.5 4057190.8    60.4     3.40     4.00
3.16     NO                    NO
 L0000706         0   0.15232E-03  733383.3 4057199.4    60.4     3.40     4.00
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3.16   NO   NO
 L0000707   0   0.15232E-03 733383.2 4057208.0   60.4   3.40   4.00
3.16   NO   NO
 L0000708   0   0.15232E-03 733383.1 4057216.6   60.3   3.40   4.00
3.16   NO   NO
 L0000709   0   0.15232E-03 733383.0 4057225.2   60.3   3.40   4.00
3.16   NO   NO
 L0000710   0   0.15232E-03 733382.9 4057233.8   60.3   3.40   4.00
3.16   NO   NO
 L0000711   0   0.15232E-03 733382.8 4057242.4   60.3   3.40   4.00
3.16   NO   NO
 L0000712   0   0.15232E-03 733382.7 4057251.0   60.3   3.40   4.00
3.16   NO   NO
 L0000713   0   0.15232E-03 733382.6 4057259.5   60.3   3.40   4.00
3.16   NO   NO
 L0000714   0   0.15232E-03 733382.5 4057268.1   60.3   3.40   4.00
3.16   NO   NO
 L0000715   0   0.15232E-03 733382.4 4057276.7   60.3   3.40   4.00
3.16   NO   NO
 L0000716   0   0.15232E-03 733382.3 4057285.3   60.3   3.40   4.00
3.16   NO   NO
 L0000717   0   0.15232E-03 733382.2 4057293.9   60.3   3.40   4.00
3.16   NO   NO
 L0000718   0   0.15232E-03 733382.1 4057302.5   60.3   3.40   4.00
3.16   NO   NO
 L0000719   0   0.15232E-03 733382.0 4057311.1   60.3   3.40   4.00
3.16   NO   NO
 L0000720   0   0.15232E-03 733381.9 4057319.7   60.3   3.40   4.00
3.16   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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 L0000721   0   0.15232E-03 733381.8 4057328.3   60.3   3.40   4.00

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3.16     NO                    NO
 L0000722         0   0.15232E-03  733381.7 4057336.9    60.3     3.40     4.00
3.16     NO                    NO
 L0000723         0   0.15232E-03  733381.5 4057345.5    60.3     3.40     4.00
3.16     NO                    NO
 L0000724         0   0.15232E-03  733381.4 4057354.1    60.3     3.40     4.00
3.16     NO                    NO
 L0000725         0   0.15232E-03  733381.3 4057362.7    60.3     3.40     4.00
3.16     NO                    NO
 L0000726         0   0.15232E-03  733381.2 4057371.3    60.3     3.40     4.00
3.16     NO                    NO
 L0000727         0   0.15232E-03  733381.1 4057379.9    60.3     3.40     4.00
3.16     NO                    NO
 L0000728         0   0.15232E-03  733381.0 4057388.5    60.3     3.40     4.00
3.16     NO                    NO
 L0000729         0   0.15232E-03  733380.9 4057397.1    60.3     3.40     4.00
3.16     NO                    NO
 L0000730         0   0.15232E-03  733380.8 4057405.7    60.3     3.40     4.00
3.16     NO                    NO
 L0000731         0   0.15232E-03  733380.7 4057414.3    60.2     3.40     4.00
3.16     NO                    NO
 L0000732         0   0.15232E-03  733380.6 4057422.9    60.2     3.40     4.00
3.16     NO                    NO
 L0000733         0   0.15232E-03  733380.5 4057431.5    60.2     3.40     4.00
3.16     NO                    NO
 L0000734         0   0.15232E-03  733380.4 4057440.1    60.2     3.40     4.00
3.16     NO                    NO
 L0000735         0   0.15232E-03  733380.3 4057448.7    60.2     3.40     4.00
3.16     NO                    NO
 L0000736         0   0.15232E-03  733380.2 4057457.3    60.2     3.40     4.00
3.16     NO                    NO
 L0000737         0   0.15232E-03  733380.1 4057465.9    60.2     3.40     4.00
3.16     NO                    NO
 L0000738         0   0.15232E-03  733380.0 4057474.5    60.2     3.40     4.00
3.16     NO                    NO
 L0000739         0   0.15232E-03  733379.9 4057483.1    60.2     3.40     4.00
3.16     NO                    NO
 L0000740         0   0.15232E-03  733379.7 4057491.7    60.2     3.40     4.00
3.16     NO                    NO
 L0000741         0   0.15232E-03  733379.6 4057500.3    60.2     3.40     4.00
3.16     NO                    NO
 L0000742         0   0.15232E-03  733379.5 4057508.9    60.2     3.40     4.00
3.16     NO                    NO
 L0000743         0   0.15232E-03  733379.4 4057517.5    60.2     3.40     4.00
3.16     NO                    NO
 L0000744         0   0.15232E-03  733379.3 4057526.1    60.2     3.40     4.00
3.16     NO                    NO
 L0000745         0   0.15232E-03  733379.2 4057534.7    60.2     3.40     4.00
3.16     NO                    NO
 L0000746         0   0.15232E-03  733379.1 4057543.3    60.2     3.40     4.00
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3.16   NO   NO
 L0000747   0   0.15232E-03 733379.0 4057551.9   60.2   3.40   4.00
3.16   NO   NO
 L0000748   0   0.15232E-03 733378.9 4057560.5   60.2   3.40   4.00
3.16   NO   NO
 L0000749   0   0.15232E-03 733378.8 4057569.1   60.2   3.40   4.00
3.16   NO   NO
 L0000750   0   0.15232E-03 733378.7 4057577.7   60.2   3.40   4.00
3.16   NO   NO
 L0000751   0   0.15232E-03 733378.6 4057586.3   60.2   3.40   4.00
3.16   NO   NO
 L0000752   0   0.15232E-03 733378.5 4057594.9   60.2   3.40   4.00
3.16   NO   NO
 L0000753   0   0.15232E-03 733378.4 4057603.5   60.2   3.40   4.00
3.16   NO   NO
 L0000754   0   0.15232E-03 733378.3 4057612.1   60.2   3.40   4.00
3.16   NO   NO
 L0000755   0   0.15232E-03 733378.2 4057620.7   60.2   3.40   4.00
3.16   NO   NO
 L0000756   0   0.15232E-03 733378.1 4057629.3   60.2   3.40   4.00
3.16   NO   NO
 L0000757   0   0.15232E-03 733377.9 4057637.9   60.2   3.40   4.00
3.16   NO   NO
 L0000758   0   0.15232E-03 733377.8 4057646.5   60.1   3.40   4.00
3.16   NO   NO
 L0000759   0   0.15232E-03 733377.7 4057655.1   60.1   3.40   4.00
3.16   NO   NO
 L0000760   0   0.15232E-03 733377.6 4057663.7   60.1   3.40   4.00
3.16   NO   NO

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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 L0000761   0   0.15232E-03 733377.5 4057672.3   60.1   3.40   4.00

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3.16     NO                    NO
 L0000762         0   0.15232E-03  733377.4 4057680.9    60.1     3.40     4.00
3.16     NO                    NO
 L0000763         0   0.15232E-03  733377.3 4057689.5    60.1     3.40     4.00
3.16     NO                    NO
 L0000764         0   0.15232E-03  733377.2 4057698.1    60.1     3.40     4.00
3.16     NO                    NO
 L0000765         0   0.15232E-03  733377.1 4057706.7    60.1     3.40     4.00
3.16     NO                    NO
 L0000766         0   0.15232E-03  733377.0 4057715.3    60.1     3.40     4.00
3.16     NO                    NO
 L0000767         0   0.15232E-03  733376.9 4057723.9    60.1     3.40     4.00
3.16     NO                    NO
 L0000768         0   0.15232E-03  733376.8 4057732.5    60.1     3.40     4.00
3.16     NO                    NO
 L0000769         0   0.15232E-03  733376.7 4057741.1    60.1     3.40     4.00
3.16     NO                    NO
 L0000770         0   0.15232E-03  733376.6 4057749.7    60.1     3.40     4.00
3.16     NO                    NO
 L0000771         0   0.15232E-03  733376.5 4057758.3    60.1     3.40     4.00
3.16     NO                    NO
 L0000772         0   0.15232E-03  733376.4 4057766.9    60.1     3.40     4.00
3.16     NO                    NO
 L0000773         0   0.15232E-03  733376.3 4057775.5    60.1     3.40     4.00
3.16     NO                    NO
 L0000774         0   0.15232E-03  733376.1 4057784.1    60.1     3.40     4.00
3.16     NO                    NO
 L0000775         0   0.15232E-03  733376.0 4057792.7    60.1     3.40     4.00
3.16     NO                    NO
 L0000776         0   0.15232E-03  733375.9 4057801.3    60.1     3.40     4.00
3.16     NO                    NO
 L0000777         0   0.15232E-03  733375.8 4057809.9    60.1     3.40     4.00
3.16     NO                    NO
 L0000778         0   0.15232E-03  733375.7 4057818.5    60.1     3.40     4.00
3.16     NO                    NO
 L0000779         0   0.15232E-03  733375.6 4057827.1    60.1     3.40     4.00
3.16     NO                    NO
 L0000780         0   0.15232E-03  733375.5 4057835.7    60.1     3.40     4.00
3.16     NO                    NO
 L0000781         0   0.15232E-03  733375.4 4057844.3    60.1     3.40     4.00
3.16     NO                    NO
 L0000782         0   0.15232E-03  733375.3 4057852.9    60.1     3.40     4.00
3.16     NO                    NO
 L0000783         0   0.15232E-03  733375.2 4057861.5    60.1     3.40     4.00
3.16     NO                    NO
 L0000784         0   0.15232E-03  733375.1 4057870.1    60.1     3.40     4.00
3.16     NO                    NO
 L0000785         0   0.15232E-03  733375.0 4057878.7    60.1     3.40     4.00
3.16     NO                    NO
 L0000786         0   0.15232E-03  733374.9 4057887.3    60.1     3.40     4.00
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3.16 NO NO
L0000787 0 0.15232E-03 733374.8 4057895.9 60.1 3.40 4.00
3.16 NO NO
L0000788 0 0.15232E-03 733374.7 4057904.5 60.1 3.40 4.00
3.16 NO NO
L0000789 0 0.15232E-03 733374.6 4057913.1 60.1 3.40 4.00
3.16 NO NO
L0000790 0 0.15232E-03 733374.5 4057921.7 60.1 3.40 4.00
3.16 NO NO
L0000791 0 0.15232E-03 733374.3 4057930.3 60.1 3.40 4.00
3.16 NO NO
L0000792 0 0.15232E-03 733374.2 4057938.9 60.1 3.40 4.00
3.16 NO NO
L0000793 0 0.15232E-03 733374.1 4057947.5 60.1 3.40 4.00
3.16 NO NO
L0000794 0 0.15232E-03 733374.0 4057956.1 60.1 3.40 4.00
3.16 NO NO
L0000795 0 0.15232E-03 733373.9 4057964.7 60.1 3.40 4.00
3.16 NO NO
L0000796 0 0.15232E-03 733373.8 4057973.3 60.1 3.40 4.00
3.16 NO NO
L0000797 0 0.15232E-03 733373.7 4057981.9 60.1 3.40 4.00
3.16 NO NO
L0000798 0 0.15232E-03 733373.6 4057990.5 60.1 3.40 4.00
3.16 NO NO
L0000799 0 0.15232E-03 733373.5 4057999.1 60.1 3.40 4.00
3.16 NO NO
L0000800 0 0.15232E-03 733373.4 4058007.7 60.1 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT SCALAR VARY
L0000801	0	0.15232E-03	733373.3	4058016.3	60.1	3.40	4.00			

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3.16     NO                    NO
 L0000802         0   0.15232E-03  733373.2 4058024.9    60.1     3.40     4.00
3.16     NO                    NO
 L0000803         0   0.15232E-03  733373.1 4058033.5    60.1     3.40     4.00
3.16     NO                    NO
 L0000804         0   0.15232E-03  733373.0 4058042.1    60.1     3.40     4.00
3.16     NO                    NO
 L0000805         0   0.15232E-03  733372.9 4058050.7    60.1     3.40     4.00
3.16     NO                    NO
 L0000806         0   0.15232E-03  733372.8 4058059.3    60.1     3.40     4.00
3.16     NO                    NO
 L0000807         0   0.15232E-03  733372.7 4058067.9    60.1     3.40     4.00
3.16     NO                    NO
 L0000808         0   0.15232E-03  733372.5 4058076.5    60.1     3.40     4.00
3.16     NO                    NO
 L0000809         0   0.15232E-03  733372.4 4058085.1    60.1     3.40     4.00
3.16     NO                    NO
 L0000810         0   0.15232E-03  733372.3 4058093.7    60.1     3.40     4.00
3.16     NO                    NO
 L0000811         0   0.15232E-03  733372.2 4058102.3    60.1     3.40     4.00
3.16     NO                    NO
 L0000812         0   0.15232E-03  733372.1 4058110.9    60.1     3.40     4.00
3.16     NO                    NO
 L0000813         0   0.15232E-03  733372.0 4058119.5    60.1     3.40     4.00
3.16     NO                    NO
 L0000814         0   0.15232E-03  733371.9 4058128.1    60.0     3.40     4.00
3.16     NO                    NO
 L0000815         0   0.15232E-03  733371.8 4058136.7    60.0     3.40     4.00
3.16     NO                    NO
 L0000816         0   0.15232E-03  733371.7 4058145.3    60.0     3.40     4.00
3.16     NO                    NO
 L0000817         0   0.15232E-03  733371.6 4058153.9    60.0     3.40     4.00
3.16     NO                    NO
 L0000818         0   0.15232E-03  733371.5 4058162.5    60.0     3.40     4.00
3.16     NO                    NO
 L0000819         0   0.15232E-03  733371.4 4058171.1    60.0     3.40     4.00
3.16     NO                    NO
 L0000820         0   0.15232E-03  733371.3 4058179.7    60.0     3.40     4.00
3.16     NO                    NO
 L0000821         0   0.15232E-03  733371.2 4058188.3    60.0     3.40     4.00
3.16     NO                    NO
 L0000822         0   0.15232E-03  733371.1 4058196.9    60.0     3.40     4.00
3.16     NO                    NO
 L0000823         0   0.15232E-03  733371.0 4058205.5    60.0     3.40     4.00
3.16     NO                    NO
 L0000824         0   0.15232E-03  733370.9 4058214.1    60.0     3.40     4.00
3.16     NO                    NO
 L0000825         0   0.15232E-03  733370.7 4058222.7    60.0     3.40     4.00
3.16     NO                    NO
 L0000826         0   0.15232E-03  733370.6 4058231.3    60.0     3.40     4.00
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3.16 NO NO
L0000827 0 0.15232E-03 733370.5 4058239.9 60.0 3.40 4.00
3.16 NO NO
L0000828 0 0.15232E-03 733370.4 4058248.5 60.0 3.40 4.00
3.16 NO NO
L0000829 0 0.15232E-03 733370.3 4058257.1 59.9 3.40 4.00
3.16 NO NO
L0000830 0 0.15232E-03 733370.2 4058265.7 59.9 3.40 4.00
3.16 NO NO
L0000831 0 0.15232E-03 733370.1 4058274.3 59.9 3.40 4.00
3.16 NO NO
L0000832 0 0.15232E-03 733370.0 4058282.9 59.9 3.40 4.00
3.16 NO NO
L0000833 0 0.15232E-03 733369.9 4058291.5 59.9 3.40 4.00
3.16 NO NO
L0000834 0 0.15232E-03 733369.8 4058300.1 59.9 3.40 4.00
3.16 NO NO
L0000835 0 0.15232E-03 733369.7 4058308.7 59.9 3.40 4.00
3.16 NO NO
L0000836 0 0.15232E-03 733369.6 4058317.3 59.9 3.40 4.00
3.16 NO NO
L0000837 0 0.15232E-03 733369.5 4058325.9 59.9 3.40 4.00
3.16 NO NO
L0000838 0 0.15232E-03 733369.4 4058334.5 59.9 3.40 4.00
3.16 NO NO
L0000839 0 0.15232E-03 733369.3 4058343.1 59.9 3.40 4.00
3.16 NO NO
L0000840 0 0.15232E-03 733369.2 4058351.7 59.8 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY	AIRCRAFT
L0000841	0	0.15232E-03	733369.1	4058360.3	59.8	3.40	4.00				

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3.16     NO                    NO
 L0000842         0   0.15232E-03  733368.9 4058368.9    59.8     3.40     4.00
3.16     NO                    NO
 L0000843         0   0.15232E-03  733368.8 4058377.5    59.8     3.40     4.00
3.16     NO                    NO
 L0000844         0   0.15232E-03  733368.7 4058386.1    59.8     3.40     4.00
3.16     NO                    NO
 L0000845         0   0.15232E-03  733368.6 4058394.7    59.8     3.40     4.00
3.16     NO                    NO
 L0000846         0   0.15232E-03  733368.5 4058403.3    59.8     3.40     4.00
3.16     NO                    NO
 L0000847         0   0.15232E-03  733368.4 4058411.9    59.8     3.40     4.00
3.16     NO                    NO
 L0000848         0   0.15232E-03  733368.3 4058420.5    59.8     3.40     4.00
3.16     NO                    NO
 L0000849         0   0.15232E-03  733368.2 4058429.1    59.8     3.40     4.00
3.16     NO                    NO
 L0000850         0   0.15232E-03  733368.1 4058437.7    59.8     3.40     4.00
3.16     NO                    NO
 L0000851         0   0.15232E-03  733368.0 4058446.3    59.8     3.40     4.00
3.16     NO                    NO
 L0000852         0   0.15232E-03  733367.9 4058454.9    59.8     3.40     4.00
3.16     NO                    NO
 L0000853         0   0.15232E-03  733367.8 4058463.5    59.8     3.40     4.00
3.16     NO                    NO
 L0000854         0   0.15232E-03  733367.7 4058472.1    59.7     3.40     4.00
3.16     NO                    NO
 L0000855         0   0.15232E-03  733367.6 4058480.7    59.7     3.40     4.00
3.16     NO                    NO
 L0000856         0   0.15232E-03  733367.5 4058489.3    59.7     3.40     4.00
3.16     NO                    NO
 L0000857         0   0.15232E-03  733367.4 4058497.9    59.7     3.40     4.00
3.16     NO                    NO
 L0000858         0   0.15232E-03  733367.3 4058506.5    59.7     3.40     4.00
3.16     NO                    NO
 L0000859         0   0.15232E-03  733367.1 4058515.1    59.7     3.40     4.00
3.16     NO                    NO
 L0000860         0   0.15232E-03  733367.0 4058523.7    59.7     3.40     4.00
3.16     NO                    NO
 L0000861         0   0.15232E-03  733366.9 4058532.3    59.7     3.40     4.00
3.16     NO                    NO
 L0000862         0   0.15232E-03  733366.8 4058540.9    59.7     3.40     4.00
3.16     NO                    NO
 L0000863         0   0.15232E-03  733366.7 4058549.5    59.7     3.40     4.00
3.16     NO                    NO
 L0000864         0   0.15232E-03  733366.6 4058558.1    59.6     3.40     4.00
3.16     NO                    NO
 L0000865         0   0.15232E-03  733366.5 4058566.7    59.6     3.40     4.00
3.16     NO                    NO
 L0000866         0   0.15232E-03  733366.4 4058575.2    59.6     3.40     4.00
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3.16     NO                     NO
 L0000867         0   0.15232E-03  733366.3 4058583.8    59.6     3.40     4.00
3.16     NO                     NO
 L0000868         0   0.15232E-03  733366.2 4058592.4    59.6     3.40     4.00
3.16     NO                     NO
 L0000869         0   0.15232E-03  733366.1 4058601.0    59.6     3.40     4.00
3.16     NO                     NO
 L0000870         0   0.15232E-03  733366.0 4058609.6    59.6     3.40     4.00
3.16     NO                     NO
 L0000871         0   0.15232E-03  733365.9 4058618.2    59.6     3.40     4.00
3.16     NO                     NO
 L0000872         0   0.15232E-03  733365.8 4058626.8    59.5     3.40     4.00
3.16     NO                     NO
 L0000873         0   0.15232E-03  733365.7 4058635.4    59.5     3.40     4.00
3.16     NO                     NO
 L0000874         0   0.15232E-03  733365.6 4058644.0    59.5     3.40     4.00
3.16     NO                     NO
 L0000875         0   0.15232E-03  733365.5 4058652.6    59.5     3.40     4.00
3.16     NO                     NO
 L0000876         0   0.15232E-03  733365.3 4058661.2    59.5     3.40     4.00
3.16     NO                     NO
 L0000877         0   0.15232E-03  733365.2 4058669.8    59.5     3.40     4.00
3.16     NO                     NO
 L0000878         0   0.15232E-03  733365.1 4058678.4    59.5     3.40     4.00
3.16     NO                     NO
 L0000879         0   0.15232E-03  733365.0 4058687.0    59.5     3.40     4.00
3.16     NO                     NO
 L0000880         0   0.15232E-03  733364.9 4058695.6    59.5     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  24
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0000881         0   0.15232E-03  733364.8 4058704.2    59.5     3.40     4.00
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3.16     NO                    NO
 L0000882         0   0.15232E-03  733364.7 4058712.8    59.4     3.40     4.00
3.16     NO                    NO
 L0000883         0   0.15232E-03  733364.6 4058721.4    59.4     3.40     4.00
3.16     NO                    NO
 L0000884         0   0.15232E-03  733364.5 4058730.0    59.4     3.40     4.00
3.16     NO                    NO
 L0000885         0   0.15232E-03  733364.4 4058738.6    59.4     3.40     4.00
3.16     NO                    NO
 L0000886         0   0.15232E-03  733364.3 4058747.2    59.4     3.40     4.00
3.16     NO                    NO
 L0000887         0   0.15232E-03  733364.2 4058755.8    59.4     3.40     4.00
3.16     NO                    NO
 L0000888         0   0.15232E-03  733364.1 4058764.4    59.4     3.40     4.00
3.16     NO                    NO
 L0000889         0   0.15232E-03  733364.0 4058773.0    59.4     3.40     4.00
3.16     NO                    NO
 L0000890         0   0.15232E-03  733363.9 4058781.6    59.4     3.40     4.00
3.16     NO                    NO
 L0000891         0   0.15232E-03  733363.8 4058790.2    59.4     3.40     4.00
3.16     NO                    NO
 L0000892         0   0.15232E-03  733363.7 4058798.8    59.3     3.40     4.00
3.16     NO                    NO
 L0000893         0   0.15232E-03  733363.5 4058807.4    59.3     3.40     4.00
3.16     NO                    NO
 L0000894         0   0.15232E-03  733363.4 4058816.0    59.3     3.40     4.00
3.16     NO                    NO
 L0000895         0   0.15232E-03  733363.3 4058824.6    59.3     3.40     4.00
3.16     NO                    NO
 L0000896         0   0.15232E-03  733363.2 4058833.2    59.3     3.40     4.00
3.16     NO                    NO
 L0000897         0   0.15232E-03  733363.1 4058841.8    59.3     3.40     4.00
3.16     NO                    NO
 L0000898         0   0.15232E-03  733363.0 4058850.4    59.3     3.40     4.00
3.16     NO                    NO
 L0000899         0   0.15232E-03  733362.9 4058859.0    59.3     3.40     4.00
3.16     NO                    NO
 L0000900         0   0.15232E-03  733362.8 4058867.6    59.3     3.40     4.00
3.16     NO                    NO
 L0000901         0   0.15232E-03  733362.7 4058876.2    59.3     3.40     4.00
3.16     NO                    NO
 L0000902         0   0.15232E-03  733362.6 4058884.8    59.3     3.40     4.00
3.16     NO                    NO
 L0000903         0   0.15232E-03  733362.5 4058893.4    59.2     3.40     4.00
3.16     NO                    NO
 L0000904         0   0.15232E-03  733362.4 4058902.0    59.2     3.40     4.00
3.16     NO                    NO
 L0000905         0   0.15232E-03  733362.3 4058910.6    59.2     3.40     4.00
3.16     NO                    NO
 L0000906         0   0.15232E-03  733362.2 4058919.2    59.2     3.40     4.00
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3.16     NO                     NO
 L0000907         0   0.15232E-03  733362.1 4058927.8    59.2     3.40     4.00
3.16     NO                     NO
 L0000908         0   0.15232E-03  733362.0 4058936.4    59.2     3.40     4.00
3.16     NO                     NO
 L0000909         0   0.15232E-03  733361.9 4058945.0    59.2     3.40     4.00
3.16     NO                     NO
 L0000910         0   0.15232E-03  733361.7 4058953.6    59.2     3.40     4.00
3.16     NO                     NO
 L0000911         0   0.15232E-03  733361.6 4058962.2    59.2     3.40     4.00
3.16     NO                     NO
 L0000912         0   0.15232E-03  733361.5 4058970.8    59.2     3.40     4.00
3.16     NO                     NO
 L0000913         0   0.15232E-03  733361.4 4058979.4    59.2     3.40     4.00
3.16     NO                     NO
 L0000914         0   0.15232E-03  733361.3 4058988.0    59.2     3.40     4.00
3.16     NO                     NO
 L0000915         0   0.15232E-03  733361.2 4058996.6    59.2     3.40     4.00
3.16     NO                     NO
 L0000916         0   0.15232E-03  733361.1 4059005.2    59.2     3.40     4.00
3.16     NO                     NO
 L0000917         0   0.15232E-03  733361.0 4059013.8    59.2     3.40     4.00
3.16     NO                     NO
 L0000918         0   0.15232E-03  733360.9 4059022.4    59.2     3.40     4.00
3.16     NO                     NO
 L0000919         0   0.15232E-03  733360.8 4059031.0    59.2     3.40     4.00
3.16     NO                     NO
 L0000920         0   0.15232E-03  733360.7 4059039.6    59.2     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  25
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0000921         0   0.15232E-03  733360.6 4059048.2    59.2     3.40     4.00
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3.16     NO                    NO
 L0000922         0   0.15232E-03  733360.5 4059056.8    59.2     3.40     4.00
3.16     NO                    NO
 L0000923         0   0.15232E-03  733360.4 4059065.4    59.2     3.40     4.00
3.16     NO                    NO
 L0000924         0   0.15232E-03  733360.3 4059074.0    59.2     3.40     4.00
3.16     NO                    NO
 L0000925         0   0.15232E-03  733360.2 4059082.6    59.2     3.40     4.00
3.16     NO                    NO
 L0000926         0   0.15232E-03  733360.1 4059091.2    59.2     3.40     4.00
3.16     NO                    NO
 L0000927         0   0.15232E-03  733359.9 4059099.8    59.2     3.40     4.00
3.16     NO                    NO
 L0000928         0   0.15232E-03  733359.8 4059108.4    59.2     3.40     4.00
3.16     NO                    NO
 L0000929         0   0.15232E-03  733359.7 4059117.0    59.2     3.40     4.00
3.16     NO                    NO
 L0000930         0   0.15232E-03  733359.6 4059125.6    59.2     3.40     4.00
3.16     NO                    NO
 L0000931         0   0.15232E-03  733359.5 4059134.2    59.2     3.40     4.00
3.16     NO                    NO
 L0000932         0   0.15232E-03  733359.4 4059142.8    59.2     3.40     4.00
3.16     NO                    NO
 L0000933         0   0.15232E-03  733359.3 4059151.4    59.2     3.40     4.00
3.16     NO                    NO
 L0000934         0   0.15232E-03  733359.2 4059160.0    59.2     3.40     4.00
3.16     NO                    NO
 L0000935         0   0.15232E-03  733359.1 4059168.6    59.2     3.40     4.00
3.16     NO                    NO
 L0000936         0   0.15232E-03  733359.0 4059177.2    59.2     3.40     4.00
3.16     NO                    NO
 L0000937         0   0.15232E-03  733358.9 4059185.8    59.2     3.40     4.00
3.16     NO                    NO
 L0000938         0   0.15232E-03  733358.8 4059194.4    59.2     3.40     4.00
3.16     NO                    NO
 L0000939         0   0.15232E-03  733358.7 4059203.0    59.2     3.40     4.00
3.16     NO                    NO
 L0000940         0   0.15232E-03  733358.6 4059211.6    59.2     3.40     4.00
3.16     NO                    NO
 L0000941         0   0.15232E-03  733358.5 4059220.2    59.2     3.40     4.00
3.16     NO                    NO
 L0000942         0   0.15232E-03  733358.4 4059228.8    59.2     3.40     4.00
3.16     NO                    NO
 L0000943         0   0.15232E-03  733358.2 4059237.4    59.2     3.40     4.00
3.16     NO                    NO
 L0000944         0   0.15232E-03  733358.1 4059246.0    59.2     3.40     4.00
3.16     NO                    NO
 L0000945         0   0.15232E-03  733358.0 4059254.6    59.2     3.40     4.00
3.16     NO                    NO
 L0000946         0   0.15232E-03  733357.9 4059263.2    59.2     3.40     4.00
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3.16   NO   NO
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3.16   NO   NO
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3.16   NO   NO
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3.16   NO   NO
 L0000950   0   0.15232E-03 733357.5 4059297.6   59.1   3.40   4.00
3.16   NO   NO
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3.16   NO   NO
 L0000952   0   0.15232E-03 733357.3 4059314.8   59.1   3.40   4.00
3.16   NO   NO
 L0000953   0   0.15232E-03 733357.2 4059323.4   59.1   3.40   4.00
3.16   NO   NO
 L0000954   0   0.15232E-03 733357.1 4059332.0   59.1   3.40   4.00
3.16   NO   NO
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3.16   NO   NO
 L0000956   0   0.15232E-03 733356.9 4059349.2   59.1   3.40   4.00
3.16   NO   NO
 L0000957   0   0.15232E-03 733356.8 4059357.8   59.1   3.40   4.00
3.16   NO   NO
 L0000958   0   0.15232E-03 733356.7 4059366.4   59.1   3.40   4.00
3.16   NO   NO
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3.16   NO   NO
 L0000960   0   0.15232E-03 733356.4 4059383.6   59.1   3.40   4.00
3.16   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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 L0000961   0   0.15232E-03 733356.3 4059392.2   59.1   3.40   4.00

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3.16     NO                    NO
 L0000962         0   0.15232E-03  733356.2 4059400.8    59.1     3.40     4.00
3.16     NO                    NO
 L0000963         0   0.15232E-03  733356.1 4059409.4    59.1     3.40     4.00
3.16     NO                    NO
 L0000964         0   0.15232E-03  733356.0 4059418.0    59.1     3.40     4.00
3.16     NO                    NO
 L0000965         0   0.15232E-03  733355.9 4059426.6    59.1     3.40     4.00
3.16     NO                    NO
 L0000966         0   0.15232E-03  733355.8 4059435.2    59.1     3.40     4.00
3.16     NO                    NO
 L0000967         0   0.15232E-03  733355.7 4059443.8    59.1     3.40     4.00
3.16     NO                    NO
 L0000968         0   0.15232E-03  733355.6 4059452.4    59.1     3.40     4.00
3.16     NO                    NO
 L0000969         0   0.15232E-03  733355.5 4059461.0    59.1     3.40     4.00
3.16     NO                    NO
 L0000970         0   0.15232E-03  733355.4 4059469.6    59.1     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0000972         0   0.15232E-03  733355.2 4059486.8    59.1     3.40     4.00
3.16     NO                    NO
 L0000973         0   0.15232E-03  733355.1 4059495.4    59.1     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0000976         0   0.15232E-03  733354.8 4059521.2    59.1     3.40     4.00
3.16     NO                    NO
 L0000977         0   0.15232E-03  733354.6 4059529.8    59.1     3.40     4.00
3.16     NO                    NO
 L0000978         0   0.15232E-03  733354.5 4059538.4    59.1     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0000980         0   0.15232E-03  733354.3 4059555.6    59.1     3.40     4.00
3.16     NO                    NO
 L0000981         0   0.15232E-03  733354.2 4059564.2    59.1     3.40     4.00
3.16     NO                    NO
 L0000982         0   0.15232E-03  733354.1 4059572.8    59.1     3.40     4.00
3.16     NO                    NO
 L0000983         0   0.15232E-03  733354.0 4059581.4    59.1     3.40     4.00
3.16     NO                    NO
 L0000984         0   0.15232E-03  733353.9 4059590.0    59.1     3.40     4.00
3.16     NO                    NO
 L0000985         0   0.15232E-03  733353.8 4059598.6    59.1     3.40     4.00
3.16     NO                    NO
 L0000986         0   0.15232E-03  733353.7 4059607.2    59.1     3.40     4.00
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3.16 NO NO
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3.16 NO NO
L0000988 0 0.15232E-03 733353.5 4059624.4 59.1 3.40 4.00
3.16 NO NO
L0000989 0 0.15232E-03 733353.4 4059633.0 59.1 3.40 4.00
3.16 NO NO
L0000990 0 0.15232E-03 733353.3 4059641.6 59.1 3.40 4.00
3.16 NO NO
L0000991 0 0.15232E-03 733353.2 4059650.2 59.1 3.40 4.00
3.16 NO NO
L0000992 0 0.15232E-03 733353.1 4059658.8 59.1 3.40 4.00
3.16 NO NO
L0000993 0 0.15232E-03 733353.0 4059667.4 59.1 3.40 4.00
3.16 NO NO
L0000994 0 0.15232E-03 733352.8 4059676.0 59.1 3.40 4.00
3.16 NO NO
L0000995 0 0.15232E-03 733352.7 4059684.6 59.1 3.40 4.00
3.16 NO NO
L0000996 0 0.15232E-03 733352.6 4059693.2 59.1 3.40 4.00
3.16 NO NO
L0000997 0 0.15232E-03 733352.5 4059701.8 59.1 3.40 4.00
3.16 NO NO
L0000998 0 0.15232E-03 733352.4 4059710.4 59.1 3.40 4.00
3.16 NO NO
L0000999 0 0.15232E-03 733352.3 4059719.0 59.1 3.40 4.00
3.16 NO NO
L0001000 0 0.15232E-03 733352.2 4059727.6 59.1 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT SCALAR VARY BY
L0001001	0	0.15232E-03	733352.1	4059736.2	59.1	3.40	4.00			

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3.16     NO                    NO
 L0001002         0   0.15232E-03  733352.0 4059744.8    59.1     3.40     4.00
3.16     NO                    NO
 L0001003         0   0.15232E-03  733351.9 4059753.4    59.1     3.40     4.00
3.16     NO                    NO
 L0001004         0   0.15232E-03  733351.8 4059762.0    59.1     3.40     4.00
3.16     NO                    NO
 L0001005         0   0.15232E-03  733351.7 4059770.6    59.1     3.40     4.00
3.16     NO                    NO
 L0001006         0   0.15232E-03  733351.6 4059779.2    59.1     3.40     4.00
3.16     NO                    NO
 L0001007         0   0.15232E-03  733351.5 4059787.8    59.1     3.40     4.00
3.16     NO                    NO
 L0001008         0   0.15232E-03  733351.4 4059796.4    59.1     3.40     4.00
3.16     NO                    NO
 L0001009         0   0.15232E-03  733351.3 4059805.0    59.1     3.40     4.00
3.16     NO                    NO
 L0001010         0   0.15232E-03  733351.2 4059813.6    59.1     3.40     4.00
3.16     NO                    NO
 L0001011         0   0.15232E-03  733351.0 4059822.2    59.1     3.40     4.00
3.16     NO                    NO
 L0001012         0   0.15232E-03  733350.9 4059830.8    59.1     3.40     4.00
3.16     NO                    NO
 L0001013         0   0.15232E-03  733350.8 4059839.4    59.1     3.40     4.00
3.16     NO                    NO
 L0001014         0   0.15232E-03  733350.7 4059848.0    59.1     3.40     4.00
3.16     NO                    NO
 L0001015         0   0.15232E-03  733350.6 4059856.6    59.1     3.40     4.00
3.16     NO                    NO
 L0001016         0   0.15232E-03  733350.5 4059865.2    59.1     3.40     4.00
3.16     NO                    NO
 L0001017         0   0.15232E-03  733350.4 4059873.8    59.1     3.40     4.00
3.16     NO                    NO
 L0001018         0   0.15232E-03  733350.3 4059882.4    59.1     3.40     4.00
3.16     NO                    NO
 L0001019         0   0.15232E-03  733350.2 4059890.9    59.1     3.40     4.00
3.16     NO                    NO
 L0001020         0   0.15232E-03  733350.1 4059899.5    59.1     3.40     4.00
3.16     NO                    NO
 L0001021         0   0.15232E-03  733350.0 4059908.1    59.1     3.40     4.00
3.16     NO                    NO
 L0001022         0   0.15232E-03  733349.9 4059916.7    59.1     3.40     4.00
3.16     NO                    NO
 L0001023         0   0.15232E-03  733349.8 4059925.3    59.1     3.40     4.00
3.16     NO                    NO
 L0001024         0   0.15232E-03  733349.7 4059933.9    59.1     3.40     4.00
3.16     NO                    NO
 L0001025         0   0.15232E-03  733349.6 4059942.5    59.1     3.40     4.00
3.16     NO                    NO
 L0001026         0   0.15232E-03  733349.5 4059951.1    59.1     3.40     4.00
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3.16     NO                     NO
 L0001027         0   0.15232E-03  733349.4 4059959.7    59.1     3.40     4.00
3.16     NO                     NO
 L0001028         0   0.15232E-03  733349.2 4059968.3    59.1     3.40     4.00
3.16     NO                     NO
 L0001029         0   0.15232E-03  733349.1 4059976.9    59.1     3.40     4.00
3.16     NO                     NO
 L0001030         0   0.15232E-03  733349.0 4059985.5    59.1     3.40     4.00
3.16     NO                     NO
 L0001031         0   0.15232E-03  733348.9 4059994.1    59.1     3.40     4.00
3.16     NO                     NO
 L0001032         0   0.15232E-03  733348.8 4060002.7    59.1     3.40     4.00
3.16     NO                     NO
 L0001033         0   0.15232E-03  733348.7 4060011.3    59.1     3.40     4.00
3.16     NO                     NO
 L0001034         0   0.15232E-03  733348.6 4060019.9    59.1     3.40     4.00
3.16     NO                     NO
 L0001035         0   0.15232E-03  733348.5 4060028.5    59.1     3.40     4.00
3.16     NO                     NO
 L0001036         0   0.15232E-03  733348.4 4060037.1    59.1     3.40     4.00
3.16     NO                     NO
 L0001037         0   0.15232E-03  733348.3 4060045.7    59.1     3.40     4.00
3.16     NO                     NO
 L0001038         0   0.15232E-03  733348.2 4060054.3    59.1     3.40     4.00
3.16     NO                     NO
 L0001039         0   0.15232E-03  733348.1 4060062.9    59.1     3.40     4.00
3.16     NO                     NO
 L0001040         0   0.15232E-03  733348.0 4060071.5    59.1     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  28
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0001041         0   0.15232E-03  733347.9 4060080.1    59.1     3.40     4.00
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3.16     NO                    NO
 L0001042         0   0.15232E-03  733347.8 4060088.7    59.1     3.40     4.00
3.16     NO                    NO
 L0001043         0   0.15232E-03  733347.7 4060097.3    59.1     3.40     4.00
3.16     NO                    NO
 L0001044         0   0.15232E-03  733347.6 4060105.9    59.1     3.40     4.00
3.16     NO                    NO
 L0001045         0   0.15232E-03  733347.4 4060114.5    59.1     3.40     4.00
3.16     NO                    NO
 L0001046         0   0.15232E-03  733347.3 4060123.1    59.1     3.40     4.00
3.16     NO                    NO
 L0001047         0   0.15232E-03  733347.2 4060131.7    59.1     3.40     4.00
3.16     NO                    NO
 L0001048         0   0.15232E-03  733347.1 4060140.3    59.1     3.40     4.00
3.16     NO                    NO
 L0001049         0   0.15232E-03  733347.0 4060148.9    59.1     3.40     4.00
3.16     NO                    NO
 L0001050         0   0.15232E-03  733346.9 4060157.5    59.1     3.40     4.00
3.16     NO                    NO
 L0001051         0   0.15232E-03  733346.8 4060166.1    59.1     3.40     4.00
3.16     NO                    NO
 L0001052         0   0.15232E-03  733346.7 4060174.7    59.1     3.40     4.00
3.16     NO                    NO
 L0001053         0   0.15232E-03  733346.6 4060183.3    59.1     3.40     4.00
3.16     NO                    NO
 L0001054         0   0.15232E-03  733346.5 4060191.9    59.1     3.40     4.00
3.16     NO                    NO
 L0001055         0   0.15232E-03  733346.4 4060200.5    59.1     3.40     4.00
3.16     NO                    NO
 L0001056         0   0.15232E-03  733346.3 4060209.1    59.1     3.40     4.00
3.16     NO                    NO
 L0001057         0   0.15232E-03  733346.2 4060217.7    59.1     3.40     4.00
3.16     NO                    NO
 L0001058         0   0.15232E-03  733346.1 4060226.3    59.1     3.40     4.00
3.16     NO                    NO
 L0001059         0   0.15232E-03  733346.0 4060234.9    59.1     3.40     4.00
3.16     NO                    NO
 L0001060         0   0.15232E-03  733345.9 4060243.5    59.1     3.40     4.00
3.16     NO                    NO
 L0001061         0   0.15232E-03  733345.8 4060252.1    59.2     3.40     4.00
3.16     NO                    NO
 L0001062         0   0.15232E-03  733345.6 4060260.7    59.2     3.40     4.00
3.16     NO                    NO
 L0001063         0   0.15232E-03  733345.5 4060269.3    59.2     3.40     4.00
3.16     NO                    NO
 L0001064         0   0.15232E-03  733345.4 4060277.9    59.1     3.40     4.00
3.16     NO                    NO
 L0001065         0   0.15232E-03  733345.3 4060286.5    59.1     3.40     4.00
3.16     NO                    NO
 L0001066         0   0.15232E-03  733345.2 4060295.1    59.1     3.40     4.00
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3.16 NO NO
L0001067 0 0.15232E-03 733345.1 4060303.7 59.1 3.40 4.00
3.16 NO NO
L0001068 0 0.15232E-03 733345.0 4060312.3 59.1 3.40 4.00
3.16 NO NO
L0001069 0 0.15232E-03 733344.9 4060320.9 59.1 3.40 4.00
3.16 NO NO
L0001070 0 0.15232E-03 733344.8 4060329.5 59.1 3.40 4.00
3.16 NO NO
L0001071 0 0.15232E-03 733344.7 4060338.1 59.1 3.40 4.00
3.16 NO NO
L0001072 0 0.15232E-03 733344.6 4060346.7 59.1 3.40 4.00
3.16 NO NO
L0001073 0 0.15232E-03 733344.5 4060355.3 59.1 3.40 4.00
3.16 NO NO
L0001074 0 0.15232E-03 733344.4 4060363.9 59.1 3.40 4.00
3.16 NO NO
L0001075 0 0.15232E-03 733344.3 4060372.5 59.1 3.40 4.00
3.16 NO NO
L0001076 0 0.15232E-03 733344.2 4060381.1 59.1 3.40 4.00
3.16 NO NO
L0001077 0 0.15232E-03 733336.8 4060382.1 59.2 3.40 4.00
3.16 NO NO
L0001078 0 0.15232E-03 733328.2 4060381.8 59.2 3.40 4.00
3.16 NO NO
L0001079 0 0.15232E-03 733319.6 4060381.5 59.2 3.40 4.00
3.16 NO NO
L0001080 0 0.15232E-03 733311.0 4060381.2 59.2 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT EMISSION RATE SCALAR VARY BY
L0001081	0	0.15232E-03	733302.4	4060380.9	59.2	3.40	4.00			

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3.16     NO                    NO
 L0001082         0   0.15232E-03  733293.8 4060380.6    59.2     3.40     4.00
3.16     NO                    NO
 L0001083         0   0.15232E-03  733285.2 4060380.3    59.3     3.40     4.00
3.16     NO                    NO
 L0001084         0   0.15232E-03  733276.6 4060380.0    59.3     3.40     4.00
3.16     NO                    NO
 L0001085         0   0.15232E-03  733268.0 4060379.7    59.3     3.40     4.00
3.16     NO                    NO
 L0001086         0   0.15232E-03  733259.4 4060379.4    59.3     3.40     4.00
3.16     NO                    NO
 L0001087         0   0.15232E-03  733250.9 4060379.1    59.3     3.40     4.00
3.16     NO                    NO
 L0001088         0   0.15232E-03  733242.3 4060378.8    59.4     3.40     4.00
3.16     NO                    NO
 L0001089         0   0.15232E-03  733233.7 4060378.5    59.4     3.40     4.00
3.16     NO                    NO
 L0001090         0   0.15232E-03  733225.1 4060378.3    59.4     3.40     4.00
3.16     NO                    NO
 L0001091         0   0.15232E-03  733216.5 4060378.0    59.5     3.40     4.00
3.16     NO                    NO
 L0001092         0   0.15232E-03  733207.9 4060377.7    59.5     3.40     4.00
3.16     NO                    NO
 L0001093         0   0.15232E-03  733199.3 4060377.4    59.5     3.40     4.00
3.16     NO                    NO
 L0001094         0   0.15232E-03  733190.7 4060377.1    59.5     3.40     4.00
3.16     NO                    NO
 L0001095         0   0.15232E-03  733182.1 4060376.8    59.5     3.40     4.00
3.16     NO                    NO
 L0001096         0   0.15232E-03  733173.5 4060376.5    59.5     3.40     4.00
3.16     NO                    NO
 L0001097         0   0.15232E-03  733164.9 4060376.2    59.6     3.40     4.00
3.16     NO                    NO
 L0001098         0   0.15232E-03  733156.3 4060375.9    59.6     3.40     4.00
3.16     NO                    NO
 L0001099         0   0.15232E-03  733147.7 4060375.6    59.6     3.40     4.00
3.16     NO                    NO
 L0001100         0   0.15232E-03  733139.1 4060375.3    59.6     3.40     4.00
3.16     NO                    NO
 L0001101         0   0.15232E-03  733130.5 4060375.0    59.6     3.40     4.00
3.16     NO                    NO
 L0001102         0   0.15232E-03  733121.9 4060374.7    59.6     3.40     4.00
3.16     NO                    NO
 L0001103         0   0.15232E-03  733113.3 4060374.4    59.7     3.40     4.00
3.16     NO                    NO
 L0001104         0   0.15232E-03  733104.7 4060374.1    59.7     3.40     4.00
3.16     NO                    NO
 L0001105         0   0.15232E-03  733096.1 4060373.8    59.8     3.40     4.00
3.16     NO                    NO
 L0001106         0   0.15232E-03  733087.5 4060373.5    59.8     3.40     4.00
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3.16     NO                     NO
 L0001107         0   0.15232E-03  733079.0 4060373.2    59.8     3.40     4.00
3.16     NO                     NO
 L0001108         0   0.15232E-03  733070.4 4060372.9    59.8     3.40     4.00
3.16     NO                     NO
 L0001109         0   0.15232E-03  733061.8 4060372.6    59.8     3.40     4.00
3.16     NO                     NO
 L0001110         0   0.15232E-03  733053.2 4060372.3    59.8     3.40     4.00
3.16     NO                     NO
 L0001111         0   0.15232E-03  733044.6 4060372.0    59.8     3.40     4.00
3.16     NO                     NO
 L0001112         0   0.15232E-03  733036.0 4060371.7    59.9     3.40     4.00
3.16     NO                     NO
 L0001113         0   0.15232E-03  733027.4 4060371.4    59.9     3.40     4.00
3.16     NO                     NO
 L0001114         0   0.15232E-03  733018.8 4060371.1    59.9     3.40     4.00
3.16     NO                     NO
 L0001115         0   0.15232E-03  733010.2 4060370.8    59.9     3.40     4.00
3.16     NO                     NO
 L0001116         0   0.15232E-03  733001.6 4060370.5    59.9     3.40     4.00
3.16     NO                     NO
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3.16     NO                     NO
 L0001118         0   0.15232E-03  732984.4 4060370.0    60.0     3.40     4.00
3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  30
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0001121         0   0.15232E-03  732958.6 4060369.1    60.0     3.40     4.00
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3.16     NO                    NO
 L0001122         0   0.15232E-03  732950.0 4060368.8    60.0     3.40     4.00
3.16     NO                    NO
 L0001123         0   0.15232E-03  732941.4 4060368.5    60.1     3.40     4.00
3.16     NO                    NO
 L0001124         0   0.15232E-03  732932.8 4060368.2    60.1     3.40     4.00
3.16     NO                    NO
 L0001125         0   0.15232E-03  732924.2 4060367.9    60.1     3.40     4.00
3.16     NO                    NO
 L0001126         0   0.15232E-03  732915.7 4060367.6    60.1     3.40     4.00
3.16     NO                    NO
 L0001127         0   0.15232E-03  732907.1 4060367.3    60.1     3.40     4.00
3.16     NO                    NO
 L0001128         0   0.15232E-03  732898.5 4060367.0    60.1     3.40     4.00
3.16     NO                    NO
 L0001129         0   0.15232E-03  732889.9 4060366.7    60.2     3.40     4.00
3.16     NO                    NO
 L0001130         0   0.15232E-03  732881.3 4060366.4    60.2     3.40     4.00
3.16     NO                    NO
 L0001131         0   0.15232E-03  732872.7 4060366.1    60.2     3.40     4.00
3.16     NO                    NO
 L0001132         0   0.15232E-03  732864.1 4060365.8    60.2     3.40     4.00
3.16     NO                    NO
 L0001133         0   0.15232E-03  732855.5 4060365.5    60.2     3.40     4.00
3.16     NO                    NO
 L0001134         0   0.15232E-03  732846.9 4060365.2    60.2     3.40     4.00
3.16     NO                    NO
 L0001135         0   0.15232E-03  732838.3 4060364.9    60.3     3.40     4.00
3.16     NO                    NO
 L0001136         0   0.15232E-03  732829.7 4060364.6    60.3     3.40     4.00
3.16     NO                    NO
 L0001137         0   0.15232E-03  732821.1 4060364.3    60.3     3.40     4.00
3.16     NO                    NO
 L0001138         0   0.15232E-03  732812.5 4060364.0    60.3     3.40     4.00
3.16     NO                    NO
 L0001139         0   0.15232E-03  732803.9 4060363.7    60.3     3.40     4.00
3.16     NO                    NO
 L0001140         0   0.15232E-03  732795.3 4060363.4    60.4     3.40     4.00
3.16     NO                    NO
 L0001141         0   0.15232E-03  732786.7 4060363.1    60.4     3.40     4.00
3.16     NO                    NO
 L0001142         0   0.15232E-03  732778.1 4060362.8    60.4     3.40     4.00
3.16     NO                    NO
 L0001143         0   0.15232E-03  732769.5 4060362.5    60.5     3.40     4.00
3.16     NO                    NO
 L0001144         0   0.15232E-03  732760.9 4060362.2    60.5     3.40     4.00
3.16     NO                    NO
 L0001145         0   0.15232E-03  732752.3 4060362.0    60.5     3.40     4.00
3.16     NO                    NO
 L0001146         0   0.15232E-03  732743.8 4060361.7    60.6     3.40     4.00
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3.16     NO                     NO
 L0001147         0   0.15232E-03  732735.2 4060361.4    60.6     3.40     4.00
3.16     NO                     NO
 L0001148         0   0.15232E-03  732726.6 4060361.1    60.6     3.40     4.00
3.16     NO                     NO
 L0001149         0   0.15232E-03  732718.0 4060360.8    60.7     3.40     4.00
3.16     NO                     NO
 L0001150         0   0.15232E-03  732709.4 4060360.5    60.7     3.40     4.00
3.16     NO                     NO
 L0001151         0   0.15232E-03  732700.8 4060360.2    60.7     3.40     4.00
3.16     NO                     NO
 L0001152         0   0.15232E-03  732692.2 4060359.9    60.8     3.40     4.00
3.16     NO                     NO
 L0001153         0   0.15232E-03  732683.6 4060359.6    60.8     3.40     4.00
3.16     NO                     NO
 L0001154         0   0.15232E-03  732675.0 4060359.3    60.8     3.40     4.00
3.16     NO                     NO
 L0001155         0   0.15232E-03  732666.4 4060359.0    60.8     3.40     4.00
3.16     NO                     NO
 L0001156         0   0.15232E-03  732657.8 4060358.7    60.8     3.40     4.00
3.16     NO                     NO
 L0001157         0   0.15232E-03  732649.2 4060358.4    60.8     3.40     4.00
3.16     NO                     NO
 L0001158         0   0.15232E-03  732640.6 4060358.1    60.9     3.40     4.00
3.16     NO                     NO
 L0001159         0   0.15232E-03  732632.0 4060357.8    60.9     3.40     4.00
3.16     NO                     NO
 L0001160         0   0.15232E-03  732623.4 4060357.5    60.9     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  31
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0001161         0   0.15232E-03  732614.8 4060357.2    61.0     3.40     4.00
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3.16     NO                    NO
 L0001162         0   0.15232E-03  732606.2 4060356.9    61.0     3.40     4.00
3.16     NO                    NO
 L0001163         0   0.15232E-03  732597.6 4060356.6    61.1     3.40     4.00
3.16     NO                    NO
 L0001164         0   0.15232E-03  732589.0 4060356.3    61.1     3.40     4.00
3.16     NO                    NO
 L0001165         0   0.15232E-03  732580.4 4060356.0    61.1     3.40     4.00
3.16     NO                    NO
 L0001166         0   0.15232E-03  732571.9 4060355.7    61.2     3.40     4.00
3.16     NO                    NO
 L0001167         0   0.15232E-03  732563.3 4060355.4    61.2     3.40     4.00
3.16     NO                    NO
 L0001168         0   0.15232E-03  732554.7 4060355.1    61.2     3.40     4.00
3.16     NO                    NO
 L0001169         0   0.15232E-03  732546.1 4060354.8    61.2     3.40     4.00
3.16     NO                    NO
 L0001170         0   0.15232E-03  732537.5 4060354.5    61.3     3.40     4.00
3.16     NO                    NO
 L0001171         0   0.15232E-03  732528.9 4060354.2    61.3     3.40     4.00
3.16     NO                    NO
 L0001172         0   0.15232E-03  732520.3 4060353.9    61.3     3.40     4.00
3.16     NO                    NO
 L0001173         0   0.15232E-03  732511.7 4060353.7    61.3     3.40     4.00
3.16     NO                    NO
 L0001174         0   0.15232E-03  732503.1 4060353.4    61.3     3.40     4.00
3.16     NO                    NO
 L0001175         0   0.15232E-03  732494.5 4060353.1    61.4     3.40     4.00
3.16     NO                    NO
 L0001176         0   0.15232E-03  732485.9 4060352.8    61.4     3.40     4.00
3.16     NO                    NO
 L0001177         0   0.15232E-03  732477.3 4060352.5    61.4     3.40     4.00
3.16     NO                    NO
 L0001178         0   0.15232E-03  732468.7 4060352.2    61.5     3.40     4.00
3.16     NO                    NO
 L0001179         0   0.15232E-03  732460.1 4060351.9    61.5     3.40     4.00
3.16     NO                    NO
 L0001180         0   0.15232E-03  732451.5 4060351.6    61.5     3.40     4.00
3.16     NO                    NO
 L0001181         0   0.15232E-03  732442.9 4060351.3    61.5     3.40     4.00
3.16     NO                    NO
 L0001182         0   0.15232E-03  732434.3 4060351.0    61.6     3.40     4.00
3.16     NO                    NO
 L0001183         0   0.15232E-03  732425.7 4060350.7    61.6     3.40     4.00
3.16     NO                    NO
 L0001184         0   0.15232E-03  732417.1 4060350.4    61.6     3.40     4.00
3.16     NO                    NO
 L0001185         0   0.15232E-03  732408.6 4060350.1    61.6     3.40     4.00
3.16     NO                    NO
 L0001186         0   0.15232E-03  732400.0 4060349.8    61.6     3.40     4.00
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3.16     NO                     NO
 L0001187         0   0.15232E-03  732391.4 4060349.5    61.7     3.40     4.00
3.16     NO                     NO
 L0001188         0   0.15232E-03  732382.8 4060349.2    61.7     3.40     4.00
3.16     NO                     NO
 L0001189         0   0.15232E-03  732374.2 4060348.9    61.8     3.40     4.00
3.16     NO                     NO
 L0001190         0   0.15232E-03  732365.6 4060348.6    61.8     3.40     4.00
3.16     NO                     NO
 L0001191         0   0.15232E-03  732357.0 4060348.3    61.8     3.40     4.00
3.16     NO                     NO
 L0001192         0   0.15232E-03  732348.4 4060348.0    61.9     3.40     4.00
3.16     NO                     NO
 L0001193         0   0.15232E-03  732339.8 4060347.7    61.9     3.40     4.00
3.16     NO                     NO
 L0001194         0   0.15232E-03  732331.2 4060347.4    61.9     3.40     4.00
3.16     NO                     NO
 L0001195         0   0.15232E-03  732322.6 4060347.1    61.9     3.40     4.00
3.16     NO                     NO
 L0001196         0   0.15232E-03  732314.0 4060346.8    62.0     3.40     4.00
3.16     NO                     NO
 L0001197         0   0.15232E-03  732305.4 4060346.5    62.0     3.40     4.00
3.16     NO                     NO
 L0001198         0   0.15232E-03  732296.8 4060346.2    62.0     3.40     4.00
3.16     NO                     NO
 L0001199         0   0.15232E-03  732288.2 4060345.9    62.0     3.40     4.00
3.16     NO                     NO
 L0001200         0   0.15232E-03  732279.6 4060345.7    62.0     3.40     4.00
3.16     NO                     NO
```


*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT SCALAR VARY
L0001201	0	0.15232E-03	732271.0	4060345.4	62.1	3.40	4.00			

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3.16     NO                    NO
 L0001202         0   0.15232E-03  732262.4 4060345.1    62.1     3.40     4.00
3.16     NO                    NO
 L0001203         0   0.15232E-03  732253.8 4060344.8    62.1     3.40     4.00
3.16     NO                    NO
 L0001204         0   0.15232E-03  732245.2 4060344.5    62.2     3.40     4.00
3.16     NO                    NO
 L0001205         0   0.15232E-03  732236.7 4060344.2    62.2     3.40     4.00
3.16     NO                    NO
 L0001206         0   0.15232E-03  732228.1 4060343.9    62.2     3.40     4.00
3.16     NO                    NO
 L0001207         0   0.15232E-03  732219.5 4060343.6    62.3     3.40     4.00
3.16     NO                    NO
 L0001208         0   0.15232E-03  732210.9 4060343.3    62.3     3.40     4.00
3.16     NO                    NO
 L0001209         0   0.15232E-03  732202.3 4060343.0    62.3     3.40     4.00
3.16     NO                    NO
 L0001210         0   0.15232E-03  732193.7 4060342.7    62.4     3.40     4.00
3.16     NO                    NO
 L0001211         0   0.15232E-03  732185.1 4060342.4    62.4     3.40     4.00
3.16     NO                    NO
 L0001212         0   0.15232E-03  732176.5 4060342.1    62.4     3.40     4.00
3.16     NO                    NO
 L0001213         0   0.15232E-03  732167.9 4060341.8    62.5     3.40     4.00
3.16     NO                    NO
 L0001214         0   0.15232E-03  732159.3 4060341.5    62.5     3.40     4.00
3.16     NO                    NO
 L0001215         0   0.15232E-03  732150.7 4060341.2    62.5     3.40     4.00
3.16     NO                    NO
 L0001216         0   0.15232E-03  732142.1 4060340.9    62.5     3.40     4.00
3.16     NO                    NO
 L0001217         0   0.15232E-03  732133.5 4060340.6    62.5     3.40     4.00
3.16     NO                    NO
 L0001218         0   0.15232E-03  732124.9 4060340.3    62.6     3.40     4.00
3.16     NO                    NO
 L0001219         0   0.15232E-03  732116.3 4060340.0    62.6     3.40     4.00
3.16     NO                    NO
 L0001220         0   0.15232E-03  732107.7 4060339.7    62.6     3.40     4.00
3.16     NO                    NO
 L0001221         0   0.15232E-03  732099.1 4060339.4    62.7     3.40     4.00
3.16     NO                    NO
 L0001222         0   0.15232E-03  732090.5 4060339.1    62.7     3.40     4.00
3.16     NO                    NO
 L0001223         0   0.15232E-03  732081.9 4060338.8    62.7     3.40     4.00
3.16     NO                    NO
 L0001224         0   0.15232E-03  732073.4 4060338.5    62.8     3.40     4.00
3.16     NO                    NO
 L0001225         0   0.15232E-03  732064.8 4060338.2    62.8     3.40     4.00
3.16     NO                    NO
 L0001226         0   0.15232E-03  732056.2 4060337.9    62.8     3.40     4.00
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3.16     NO                     NO
 L0001227         0   0.15232E-03  732047.6 4060337.6    62.9     3.40     4.00
3.16     NO                     NO
 L0001228         0   0.15232E-03  732039.0 4060337.4    62.9     3.40     4.00
3.16     NO                     NO
 L0001229         0   0.15232E-03  732030.4 4060337.1    62.9     3.40     4.00
3.16     NO                     NO
 L0001230         0   0.15232E-03  732021.8 4060336.8    62.9     3.40     4.00
3.16     NO                     NO
 L0001231         0   0.15232E-03  732013.2 4060336.5    62.9     3.40     4.00
3.16     NO                     NO
 L0001232         0   0.15232E-03  732004.6 4060336.2    63.0     3.40     4.00
3.16     NO                     NO
 L0001233         0   0.15232E-03  731996.0 4060335.9    63.0     3.40     4.00
3.16     NO                     NO
 L0001234         0   0.15232E-03  731987.4 4060335.6    63.0     3.40     4.00
3.16     NO                     NO
 L0001235         0   0.15232E-03  731978.8 4060335.3    63.0     3.40     4.00
3.16     NO                     NO
 L0001236         0   0.15232E-03  731970.2 4060335.0    63.1     3.40     4.00
3.16     NO                     NO
 L0001237         0   0.15232E-03  731961.6 4060334.7    63.1     3.40     4.00
3.16     NO                     NO
 L0001238         0   0.15232E-03  731953.0 4060334.4    63.1     3.40     4.00
3.16     NO                     NO
 L0001239         0   0.15232E-03  731944.4 4060334.1    63.2     3.40     4.00
3.16     NO                     NO
 L0001240         0   0.15232E-03  731935.8 4060333.8    63.2     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  33
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0001241         0   0.15232E-03  731927.2 4060333.5    63.2     3.40     4.00
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3.16     NO                    NO
 L0001242         0   0.15232E-03  731918.6 4060333.2    63.2     3.40     4.00
3.16     NO                    NO
 L0001243         0   0.15232E-03  731910.0 4060332.9    63.2     3.40     4.00
3.16     NO                    NO
 L0001244         0   0.15232E-03  731901.5 4060332.6    63.3     3.40     4.00
3.16     NO                    NO
 L0001245         0   0.15232E-03  731892.9 4060332.3    63.3     3.40     4.00
3.16     NO                    NO
 L0001246         0   0.15232E-03  731884.3 4060332.0    63.3     3.40     4.00
3.16     NO                    NO
 L0001247         0   0.15232E-03  731875.7 4060331.7    63.3     3.40     4.00
3.16     NO                    NO
 L0001248         0   0.15232E-03  731867.1 4060331.4    63.3     3.40     4.00
3.16     NO                    NO
 L0001249         0   0.15232E-03  731858.5 4060331.1    63.3     3.40     4.00
3.16     NO                    NO
 L0001250         0   0.15232E-03  731849.9 4060330.8    63.3     3.40     4.00
3.16     NO                    NO
 L0001251         0   0.15232E-03  731841.3 4060330.5    63.4     3.40     4.00
3.16     NO                    NO
 L0001252         0   0.15232E-03  731832.7 4060330.2    63.4     3.40     4.00
3.16     NO                    NO
 L0001253         0   0.15232E-03  731824.1 4060329.9    63.5     3.40     4.00
3.16     NO                    NO
 L0001254         0   0.15232E-03  731815.5 4060329.6    63.5     3.40     4.00
3.16     NO                    NO
 L0001255         0   0.15232E-03  731806.9 4060329.4    63.6     3.40     4.00
3.16     NO                    NO
 L0001256         0   0.15232E-03  731798.3 4060329.1    63.6     3.40     4.00
3.16     NO                    NO
 L0001257         0   0.15232E-03  731789.7 4060328.8    63.6     3.40     4.00
3.16     NO                    NO
 L0001258         0   0.15232E-03  731781.1 4060328.5    63.7     3.40     4.00
3.16     NO                    NO
 L0001259         0   0.15232E-03  731772.5 4060328.2    63.8     3.40     4.00
3.16     NO                    NO
 L0001260         0   0.15232E-03  731763.9 4060327.9    63.8     3.40     4.00
3.16     NO                    NO
 L0001261         0   0.15232E-03  731755.3 4060327.6    63.8     3.40     4.00
3.16     NO                    NO
 L0001262         0   0.15232E-03  731746.7 4060327.3    63.9     3.40     4.00
3.16     NO                    NO
 L0001263         0   0.15232E-03  731738.1 4060327.0    63.9     3.40     4.00
3.16     NO                    NO
 L0001264         0   0.15232E-03  731729.6 4060326.7    63.9     3.40     4.00
3.16     NO                    NO
 L0001265         0   0.15232E-03  731721.0 4060326.4    64.0     3.40     4.00
3.16     NO                    NO
 L0001266         0   0.15232E-03  731712.4 4060326.1    64.0     3.40     4.00
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3.16   NO   NO
 L0001267   0   0.15232E-03 731703.8 4060325.8   64.1   3.40   4.00
3.16   NO   NO
 L0001268   0   0.15232E-03 731695.2 4060325.5   64.1   3.40   4.00
3.16   NO   NO
 L0001269   0   0.15232E-03 731686.6 4060325.2   64.2   3.40   4.00
3.16   NO   NO
 L0001270   0   0.15232E-03 731678.0 4060324.9   64.2   3.40   4.00
3.16   NO   NO
 L0001271   0   0.15232E-03 731669.4 4060324.6   64.3   3.40   4.00
3.16   NO   NO
 L0001272   0   0.15232E-03 731660.8 4060324.3   64.3   3.40   4.00
3.16   NO   NO
 L0001273   0   0.15232E-03 731652.2 4060324.0   64.4   3.40   4.00
3.16   NO   NO
 L0001274   0   0.15232E-03 731643.6 4060323.7   64.4   3.40   4.00
3.16   NO   NO
 L0001275   0   0.15232E-03 731635.0 4060323.4   64.4   3.40   4.00
3.16   NO   NO
 L0001276   0   0.15232E-03 731626.4 4060323.1   64.5   3.40   4.00
3.16   NO   NO
 L0001277   0   0.15232E-03 731617.8 4060322.8   64.5   3.40   4.00
3.16   NO   NO
 L0001278   0   0.15232E-03 731609.2 4060322.5   64.5   3.40   4.00
3.16   NO   NO
 L0001279   0   0.15232E-03 731600.6 4060322.2   64.6   3.40   4.00
3.16   NO   NO
 L0001280   0   0.15232E-03 731592.0 4060321.9   64.6   3.40   4.00
3.16   NO   NO

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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 L0001281   0   0.15232E-03 731583.4 4060321.6   64.7   3.40   4.00

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3.16     NO                    NO
 L0001282         0   0.15232E-03  731574.8 4060321.3    64.7     3.40     4.00
3.16     NO                    NO
 L0001283         0   0.15232E-03  731566.3 4060321.1    64.8     3.40     4.00
3.16     NO                    NO
 L0001284         0   0.15232E-03  731557.7 4060320.8    64.8     3.40     4.00
3.16     NO                    NO
 L0001285         0   0.15232E-03  731549.1 4060320.5    64.8     3.40     4.00
3.16     NO                    NO
 L0001286         0   0.15232E-03  731540.5 4060320.2    64.8     3.40     4.00
3.16     NO                    NO
 L0001287         0   0.15232E-03  731531.9 4060319.9    64.8     3.40     4.00
3.16     NO                    NO
 L0001288         0   0.15232E-03  731523.3 4060319.6    64.9     3.40     4.00
3.16     NO                    NO
 L0001289         0   0.15232E-03  731514.7 4060319.3    64.9     3.40     4.00
3.16     NO                    NO
 L0001290         0   0.15232E-03  731506.1 4060319.0    65.0     3.40     4.00
3.16     NO                    NO
 L0001291         0   0.15232E-03  731497.5 4060318.7    65.0     3.40     4.00
3.16     NO                    NO
 L0001292         0   0.15232E-03  731488.9 4060318.4    65.0     3.40     4.00
3.16     NO                    NO
 L0001293         0   0.15232E-03  731480.3 4060318.1    65.0     3.40     4.00
3.16     NO                    NO
 L0001294         0   0.15232E-03  731471.7 4060317.8    65.0     3.40     4.00
3.16     NO                    NO
 L0001295         0   0.15232E-03  731463.1 4060317.5    65.0     3.40     4.00
3.16     NO                    NO
 L0001296         0   0.15232E-03  731454.5 4060317.2    65.1     3.40     4.00
3.16     NO                    NO
 L0001297         0   0.15232E-03  731445.9 4060316.9    65.1     3.40     4.00
3.16     NO                    NO
 L0001298         0   0.15232E-03  731437.3 4060316.6    65.1     3.40     4.00
3.16     NO                    NO
 L0001299         0   0.15232E-03  731428.7 4060316.3    65.1     3.40     4.00
3.16     NO                    NO
 L0001300         0   0.15232E-03  731420.1 4060316.0    65.1     3.40     4.00
3.16     NO                    NO
 L0001301         0   0.15232E-03  731411.5 4060315.7    65.1     3.40     4.00
3.16     NO                    NO
 L0001302         0   0.15232E-03  731402.9 4060315.4    65.2     3.40     4.00
3.16     NO                    NO
 L0001303         0   0.15232E-03  731394.4 4060315.1    65.2     3.40     4.00
3.16     NO                    NO
 L0001304         0   0.15232E-03  731385.8 4060314.8    65.2     3.40     4.00
3.16     NO                    NO
 L0001305         0   0.15232E-03  731377.2 4060314.5    65.3     3.40     4.00
3.16     NO                    NO
 L0001306         0   0.15232E-03  731368.6 4060314.2    65.3     3.40     4.00
```

3.16   NO   NO
 L0001307   0   0.15232E-03 731360.0 4060313.9   65.3   3.40   4.00
3.16   NO   NO
 L0001308   0   0.15232E-03 731351.4 4060313.6   65.4   3.40   4.00
3.16   NO   NO
 L0001309   0   0.15232E-03 731342.8 4060313.3   65.4   3.40   4.00
3.16   NO   NO
 L0001310   0   0.15232E-03 731334.2 4060313.0   65.4   3.40   4.00
3.16   NO   NO
 L0001311   0   0.15232E-03 731334.1 4060304.8   65.4   3.40   4.00
3.16   NO   NO
 L0001312   0   0.15232E-03 731334.3 4060296.2   65.4   3.40   4.00
3.16   NO   NO
 L0001313   0   0.15232E-03 731334.5 4060287.6   65.5   3.40   4.00
3.16   NO   NO
 L0001314   0   0.15232E-03 731334.8 4060279.0   65.5   3.40   4.00
3.16   NO   NO
 L0001315   0   0.15232E-03 731335.0 4060270.4   65.5   3.40   4.00
3.16   NO   NO
 L0001316   0   0.15232E-03 731335.2 4060261.8   65.5   3.40   4.00
3.16   NO   NO
 L0001317   0   0.15232E-03 731335.5 4060253.2   65.5   3.40   4.00
3.16   NO   NO
 L0001318   0   0.15232E-03 731335.7 4060244.6   65.5   3.40   4.00
3.16   NO   NO
 L0001319   0   0.15232E-03 731335.9 4060236.0   65.5   3.40   4.00
3.16   NO   NO
 L0001320   0   0.15232E-03 731336.2 4060227.4   65.5   3.40   4.00
3.16   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

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

 L0001321   0   0.15232E-03 731336.4 4060218.8   65.5   3.40   4.00

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3.16     NO                    NO
 L0001322         0   0.15232E-03  731336.6 4060210.2    65.5     3.40     4.00
3.16     NO                    NO
 L0001323         0   0.15232E-03  731336.9 4060201.6    65.5     3.40     4.00
3.16     NO                    NO
 L0001324         0   0.15232E-03  731337.1 4060193.0    65.5     3.40     4.00
3.16     NO                    NO
 L0001325         0   0.15232E-03  731337.3 4060184.4    65.5     3.40     4.00
3.16     NO                    NO
 L0001326         0   0.15232E-03  731337.6 4060175.8    65.5     3.40     4.00
3.16     NO                    NO
 L0001327         0   0.15232E-03  731337.8 4060167.2    65.5     3.40     4.00
3.16     NO                    NO
 L0001328         0   0.15232E-03  731338.0 4060158.6    65.5     3.40     4.00
3.16     NO                    NO
 L0001329         0   0.15232E-03  731338.3 4060150.0    65.5     3.40     4.00
3.16     NO                    NO
 L0001330         0   0.15232E-03  731338.5 4060141.4    65.5     3.40     4.00
3.16     NO                    NO
 L0001331         0   0.15232E-03  731338.7 4060132.8    65.4     3.40     4.00
3.16     NO                    NO
 L0001332         0   0.15232E-03  731339.0 4060124.3    65.4     3.40     4.00
3.16     NO                    NO
 L0001333         0   0.15232E-03  731339.2 4060115.7    65.4     3.40     4.00
3.16     NO                    NO
 L0001334         0   0.15232E-03  731339.4 4060107.1    65.4     3.40     4.00
3.16     NO                    NO
 L0001335         0   0.15232E-03  731339.7 4060098.5    65.4     3.40     4.00
3.16     NO                    NO
 L0001336         0   0.15232E-03  731339.9 4060089.9    65.4     3.40     4.00
3.16     NO                    NO
 L0001337         0   0.15232E-03  731340.2 4060081.3    65.3     3.40     4.00
3.16     NO                    NO
 L0001338         0   0.15232E-03  731340.4 4060072.7    65.3     3.40     4.00
3.16     NO                    NO
 L0001339         0   0.15232E-03  731340.6 4060064.1    65.3     3.40     4.00
3.16     NO                    NO
 L0001340         0   0.15232E-03  731340.9 4060055.5    65.3     3.40     4.00
3.16     NO                    NO
 L0001341         0   0.15232E-03  731341.1 4060046.9    65.3     3.40     4.00
3.16     NO                    NO
 L0001342         0   0.15232E-03  731341.3 4060038.3    65.3     3.40     4.00
3.16     NO                    NO
 L0001343         0   0.15232E-03  731341.6 4060029.7    65.3     3.40     4.00
3.16     NO                    NO
 L0001344         0   0.15232E-03  731341.8 4060021.1    65.3     3.40     4.00
3.16     NO                    NO
 L0001345         0   0.15232E-03  731342.0 4060012.5    65.2     3.40     4.00
3.16     NO                    NO
 L0001346         0   0.15232E-03  731342.3 4060003.9    65.2     3.40     4.00
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3.16     NO                     NO
 L0001347         0   0.15232E-03  731342.5 4059995.3    65.2     3.40     4.00
3.16     NO                     NO
 L0001348         0   0.15232E-03  731342.7 4059986.7    65.1     3.40     4.00
3.16     NO                     NO
 L0001349         0   0.15232E-03  731343.0 4059978.1    65.1     3.40     4.00
3.16     NO                     NO
 L0001350         0   0.15232E-03  731343.2 4059969.5    65.1     3.40     4.00
3.16     NO                     NO
 L0001351         0   0.15232E-03  731343.4 4059960.9    65.1     3.40     4.00
3.16     NO                     NO
 L0001352         0   0.15232E-03  731343.7 4059952.3    65.0     3.40     4.00
3.16     NO                     NO
 L0001353         0   0.15232E-03  731343.9 4059943.7    65.0     3.40     4.00
3.16     NO                     NO
 L0001354         0   0.15232E-03  731344.1 4059935.1    65.0     3.40     4.00
3.16     NO                     NO
 L0001355         0   0.15232E-03  731344.4 4059926.5    65.0     3.40     4.00
3.16     NO                     NO
 L0001356         0   0.15232E-03  731344.6 4059917.9    65.0     3.40     4.00
3.16     NO                     NO
 L0001357         0   0.15232E-03  731344.8 4059909.3    64.9     3.40     4.00
3.16     NO                     NO
 L0001358         0   0.15232E-03  731345.1 4059900.7    64.9     3.40     4.00
3.16     NO                     NO
 L0001359         0   0.15232E-03  731345.3 4059892.1    64.9     3.40     4.00
3.16     NO                     NO
 L0001360         0   0.15232E-03  731345.5 4059883.5    64.8     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  36
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0001361         0   0.15232E-03  731345.8 4059874.9    64.8     3.40     4.00
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3.16     NO                    NO
 L0001362         0   0.15232E-03  731346.0 4059866.3    64.8     3.40     4.00
3.16     NO                    NO
 L0001363         0   0.15232E-03  731346.2 4059857.8    64.8     3.40     4.00
3.16     NO                    NO
 L0001364         0   0.15232E-03  731346.5 4059849.2    64.8     3.40     4.00
3.16     NO                    NO
 L0001365         0   0.15232E-03  731346.7 4059840.6    64.8     3.40     4.00
3.16     NO                    NO
 L0001366         0   0.15232E-03  731346.9 4059832.0    64.8     3.40     4.00
3.16     NO                    NO
 L0001367         0   0.15232E-03  731347.2 4059823.4    64.7     3.40     4.00
3.16     NO                    NO
 L0001368         0   0.15232E-03  731347.4 4059814.8    64.7     3.40     4.00
3.16     NO                    NO
 L0001369         0   0.15232E-03  731347.6 4059806.2    64.7     3.40     4.00
3.16     NO                    NO
 L0001370         0   0.15232E-03  731347.9 4059797.6    64.7     3.40     4.00
3.16     NO                    NO
 L0001371         0   0.15232E-03  731348.1 4059789.0    64.6     3.40     4.00
3.16     NO                    NO
 L0001372         0   0.15232E-03  731348.3 4059780.4    64.6     3.40     4.00
3.16     NO                    NO
 L0001373         0   0.15232E-03  731348.6 4059771.8    64.6     3.40     4.00
3.16     NO                    NO
 L0001374         0   0.15232E-03  731348.8 4059763.2    64.6     3.40     4.00
3.16     NO                    NO
 L0001375         0   0.15232E-03  731349.0 4059754.6    64.6     3.40     4.00
3.16     NO                    NO
 L0001376         0   0.15232E-03  731349.3 4059746.0    64.6     3.40     4.00
3.16     NO                    NO
 L0001377         0   0.15232E-03  731349.5 4059737.4    64.6     3.40     4.00
3.16     NO                    NO
 L0001378         0   0.15232E-03  731349.7 4059728.8    64.6     3.40     4.00
3.16     NO                    NO
 L0001379         0   0.15232E-03  731350.0 4059720.2    64.6     3.40     4.00
3.16     NO                    NO
 L0001380         0   0.15232E-03  731350.2 4059711.6    64.6     3.40     4.00
3.16     NO                    NO
 L0001381         0   0.15232E-03  731350.4 4059703.0    64.6     3.40     4.00
3.16     NO                    NO
 L0001382         0   0.15232E-03  731350.7 4059694.4    64.5     3.40     4.00
3.16     NO                    NO
 L0001383         0   0.15232E-03  731350.9 4059685.8    64.5     3.40     4.00
3.16     NO                    NO
 L0001384         0   0.15232E-03  731351.1 4059677.2    64.5     3.40     4.00
3.16     NO                    NO
 L0001385         0   0.15232E-03  731351.4 4059668.6    64.5     3.40     4.00
3.16     NO                    NO
 L0001386         0   0.15232E-03  731351.6 4059660.0    64.5     3.40     4.00
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3.16 NO NO
L0001387 0 0.15232E-03 731351.8 4059651.4 64.5 3.40 4.00
3.16 NO NO
L0001388 0 0.15232E-03 731352.1 4059642.8 64.5 3.40 4.00
3.16 NO NO
L0001389 0 0.15232E-03 731352.3 4059634.2 64.5 3.40 4.00
3.16 NO NO
L0001390 0 0.15232E-03 731352.5 4059625.6 64.5 3.40 4.00
3.16 NO NO
L0001391 0 0.15232E-03 731352.8 4059617.0 64.5 3.40 4.00
3.16 NO NO
L0001392 0 0.15232E-03 731353.0 4059608.4 64.5 3.40 4.00
3.16 NO NO
L0001393 0 0.15232E-03 731353.3 4059599.8 64.5 3.40 4.00
3.16 NO NO
L0001394 0 0.15232E-03 731353.5 4059591.3 64.5 3.40 4.00
3.16 NO NO
L0001395 0 0.15232E-03 731353.7 4059582.7 64.5 3.40 4.00
3.16 NO NO
L0001396 0 0.15232E-03 731354.0 4059574.1 64.5 3.40 4.00
3.16 NO NO
L0001397 0 0.15232E-03 731354.2 4059565.5 64.5 3.40 4.00
3.16 NO NO
L0001398 0 0.15232E-03 731354.4 4059556.9 64.5 3.40 4.00
3.16 NO NO
L0001399 0 0.15232E-03 731354.7 4059548.3 64.5 3.40 4.00
3.16 NO NO
L0001400 0 0.15232E-03 731354.9 4059539.7 64.5 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY	AIRCRAFT
L0001401	0	0.15232E-03	731355.1	4059531.1	64.5	3.40	4.00				

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3.16     NO                    NO
 L0001402         0   0.15232E-03  731355.4 4059522.5    64.5     3.40     4.00
3.16     NO                    NO
 L0001403         0   0.15232E-03  731355.6 4059513.9    64.5     3.40     4.00
3.16     NO                    NO
 L0001404         0   0.15232E-03  731355.8 4059505.3    64.5     3.40     4.00
3.16     NO                    NO
 L0001405         0   0.15232E-03  731356.1 4059496.7    64.5     3.40     4.00
3.16     NO                    NO
 L0001406         0   0.15232E-03  731356.3 4059488.1    64.5     3.40     4.00
3.16     NO                    NO
 L0001407         0   0.15232E-03  731356.5 4059479.5    64.5     3.40     4.00
3.16     NO                    NO
 L0001408         0   0.15232E-03  731356.8 4059470.9    64.5     3.40     4.00
3.16     NO                    NO
 L0001409         0   0.15232E-03  731357.0 4059462.3    64.5     3.40     4.00
3.16     NO                    NO
 L0001410         0   0.15232E-03  731357.2 4059453.7    64.5     3.40     4.00
3.16     NO                    NO
 L0001411         0   0.15232E-03  731357.5 4059445.1    64.5     3.40     4.00
3.16     NO                    NO
 L0001412         0   0.15232E-03  731357.7 4059436.5    64.5     3.40     4.00
3.16     NO                    NO
 L0001413         0   0.15232E-03  731357.9 4059427.9    64.5     3.40     4.00
3.16     NO                    NO
 L0001414         0   0.15232E-03  731358.2 4059419.3    64.5     3.40     4.00
3.16     NO                    NO
 L0001415         0   0.15232E-03  731358.4 4059410.7    64.5     3.40     4.00
3.16     NO                    NO
 L0001416         0   0.15232E-03  731358.6 4059402.1    64.5     3.40     4.00
3.16     NO                    NO
 L0001417         0   0.15232E-03  731358.9 4059393.5    64.5     3.40     4.00
3.16     NO                    NO
 L0001418         0   0.15232E-03  731359.1 4059384.9    64.5     3.40     4.00
3.16     NO                    NO
 L0001419         0   0.15232E-03  731359.3 4059376.3    64.5     3.40     4.00
3.16     NO                    NO
 L0001420         0   0.15232E-03  731359.6 4059367.7    64.5     3.40     4.00
3.16     NO                    NO
 L0001421         0   0.15232E-03  731359.8 4059359.1    64.5     3.40     4.00
3.16     NO                    NO
 L0001422         0   0.15232E-03  731360.0 4059350.5    64.5     3.40     4.00
3.16     NO                    NO
 L0001423         0   0.15232E-03  731360.3 4059341.9    64.5     3.40     4.00
3.16     NO                    NO
 L0001424         0   0.15232E-03  731360.5 4059333.3    64.5     3.40     4.00
3.16     NO                    NO
 L0001425         0   0.15232E-03  731360.7 4059324.7    64.5     3.40     4.00
3.16     NO                    NO
 L0001426         0   0.15232E-03  731361.0 4059316.2    64.5     3.40     4.00
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3.16     NO                     NO
 L0001427         0   0.15232E-03  731361.2 4059307.6    64.5     3.40     4.00
3.16     NO                     NO
 L0001428         0   0.15232E-03  731361.4 4059299.0    64.5     3.40     4.00
3.16     NO                     NO
 L0001429         0   0.15232E-03  731361.7 4059290.4    64.5     3.40     4.00
3.16     NO                     NO
 L0001430         0   0.15232E-03  731361.9 4059281.8    64.5     3.40     4.00
3.16     NO                     NO
 L0001431         0   0.15232E-03  731362.1 4059273.2    64.5     3.40     4.00
3.16     NO                     NO
 L0001432         0   0.15232E-03  731362.4 4059264.6    64.5     3.40     4.00
3.16     NO                     NO
 L0001433         0   0.15232E-03  731362.6 4059256.0    64.5     3.40     4.00
3.16     NO                     NO
 L0001434         0   0.15232E-03  731362.8 4059247.4    64.5     3.40     4.00
3.16     NO                     NO
 L0001435         0   0.15232E-03  731363.1 4059238.8    64.5     3.40     4.00
3.16     NO                     NO
 L0001436         0   0.15232E-03  731363.3 4059230.2    64.5     3.40     4.00
3.16     NO                     NO
 L0001437         0   0.15232E-03  731363.5 4059221.6    64.6     3.40     4.00
3.16     NO                     NO
 L0001438         0   0.15232E-03  731363.8 4059213.0    64.6     3.40     4.00
3.16     NO                     NO
 L0001439         0   0.15232E-03  731364.0 4059204.4    64.6     3.40     4.00
3.16     NO                     NO
 L0001440         0   0.15232E-03  731364.2 4059195.8    64.6     3.40     4.00
3.16     NO                     NO
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT SCALAR VARY
L0001441	0	0.15232E-03	731364.5	4059187.2	64.6	3.40	4.00			

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3.16     NO                    NO
 L0001442         0   0.15232E-03  731364.7 4059178.6    64.6     3.40     4.00
3.16     NO                    NO
 L0001443         0   0.15232E-03  731364.9 4059170.0    64.6     3.40     4.00
3.16     NO                    NO
 L0001444         0   0.15232E-03  731365.2 4059161.4    64.6     3.40     4.00
3.16     NO                    NO
 L0001445         0   0.15232E-03  731365.4 4059152.8    64.6     3.40     4.00
3.16     NO                    NO
 L0001446         0   0.15232E-03  731365.6 4059144.2    64.6     3.40     4.00
3.16     NO                    NO
 L0001447         0   0.15232E-03  731365.9 4059135.6    64.6     3.40     4.00
3.16     NO                    NO
 L0001448         0   0.15232E-03  731366.1 4059127.0    64.6     3.40     4.00
3.16     NO                    NO
 L0001449         0   0.15232E-03  731366.4 4059118.4    64.6     3.40     4.00
3.16     NO                    NO
 L0001450         0   0.15232E-03  731366.6 4059109.8    64.6     3.40     4.00
3.16     NO                    NO
 L0001451         0   0.15232E-03  731366.8 4059101.2    64.6     3.40     4.00
3.16     NO                    NO
 L0001452         0   0.15232E-03  731367.1 4059092.6    64.6     3.40     4.00
3.16     NO                    NO
 L0001453         0   0.15232E-03  731367.3 4059084.0    64.6     3.40     4.00
3.16     NO                    NO
 L0001454         0   0.15232E-03  731367.5 4059075.4    64.6     3.40     4.00
3.16     NO                    NO
 L0001455         0   0.15232E-03  731367.8 4059066.8    64.6     3.40     4.00
3.16     NO                    NO
 L0001456         0   0.15232E-03  731368.0 4059058.2    64.6     3.40     4.00
3.16     NO                    NO
 L0001457         0   0.15232E-03  731368.2 4059049.7    64.6     3.40     4.00
3.16     NO                    NO
 L0001458         0   0.15232E-03  731368.5 4059041.1    64.6     3.40     4.00
3.16     NO                    NO
 L0001459         0   0.15232E-03  731375.3 4059039.4    64.6     3.40     4.00
3.16     NO                    NO
 L0001460         0   0.15232E-03  731383.9 4059039.6    64.6     3.40     4.00
3.16     NO                    NO
 L0001461         0   0.15232E-03  731392.5 4059039.8    64.5     3.40     4.00
3.16     NO                    NO
 L0001462         0   0.15232E-03  731401.1 4059040.0    64.5     3.40     4.00
3.16     NO                    NO
 L0001463         0   0.15232E-03  731409.7 4059040.2    64.5     3.40     4.00
3.16     NO                    NO
 L0001464         0   0.15232E-03  731418.3 4059040.4    64.5     3.40     4.00
3.16     NO                    NO
 L0001465         0   0.15232E-03  731426.9 4059040.6    64.4     3.40     4.00
3.16     NO                    NO
 L0001466         0   0.15232E-03  731435.5 4059040.8    64.4     3.40     4.00
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3.16     NO                     NO
 L0001467         0   0.15232E-03  731444.1 4059040.9    64.4     3.40     4.00
3.16     NO                     NO
 L0001468         0   0.15232E-03  731452.7 4059041.1    64.4     3.40     4.00
3.16     NO                     NO
 L0001469         0   0.15232E-03  731461.3 4059041.3    64.4     3.40     4.00
3.16     NO                     NO
 L0001470         0   0.15232E-03  731469.9 4059041.5    64.3     3.40     4.00
3.16     NO                     NO
 L0001471         0   0.15232E-03  731478.5 4059041.7    64.3     3.40     4.00
3.16     NO                     NO
 L0001472         0   0.15232E-03  731487.1 4059041.9    64.3     3.40     4.00
3.16     NO                     NO
 L0001473         0   0.15232E-03  731495.7 4059042.1    64.2     3.40     4.00
3.16     NO                     NO
 L0001474         0   0.15232E-03  731504.3 4059042.3    64.2     3.40     4.00
3.16     NO                     NO
 L0001475         0   0.15232E-03  731512.9 4059042.5    64.2     3.40     4.00
3.16     NO                     NO
 L0001476         0   0.15232E-03  731521.5 4059042.7    64.2     3.40     4.00
3.16     NO                     NO
 L0001477         0   0.15232E-03  731530.1 4059042.9    64.2     3.40     4.00
3.16     NO                     NO
 L0001478         0   0.15232E-03  731538.7 4059043.0    64.2     3.40     4.00
3.16     NO                     NO
 L0001479         0   0.15232E-03  731547.3 4059043.2    64.1     3.40     4.00
3.16     NO                     NO
 L0001480         0   0.15232E-03  731555.9 4059043.4    64.1     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  39
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0001481         0   0.15232E-03  731564.5 4059043.6    64.1     3.40     4.00
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3.16     NO                    NO
 L0001482         0   0.15232E-03  731573.1 4059043.8    64.0     3.40     4.00
3.16     NO                    NO
 L0001483         0   0.15232E-03  731581.7 4059044.0    64.0     3.40     4.00
3.16     NO                    NO
 L0001484         0   0.15232E-03  731590.3 4059044.2    63.9     3.40     4.00
3.16     NO                    NO
 L0001485         0   0.15232E-03  731598.9 4059044.4    63.9     3.40     4.00
3.16     NO                    NO
 L0001486         0   0.15232E-03  731607.5 4059044.6    63.9     3.40     4.00
3.16     NO                    NO
 L0001487         0   0.15232E-03  731616.1 4059044.8    63.9     3.40     4.00
3.16     NO                    NO
 L0001488         0   0.15232E-03  731624.7 4059045.0    63.9     3.40     4.00
3.16     NO                    NO
 L0001489         0   0.15232E-03  731633.3 4059045.2    63.9     3.40     4.00
3.16     NO                    NO
 L0001490         0   0.15232E-03  731641.9 4059045.3    63.8     3.40     4.00
3.16     NO                    NO
 L0001491         0   0.15232E-03  731650.4 4059045.5    63.8     3.40     4.00
3.16     NO                    NO
 L0001492         0   0.15232E-03  731659.0 4059045.7    63.8     3.40     4.00
3.16     NO                    NO
 L0001493         0   0.15232E-03  731667.6 4059045.9    63.7     3.40     4.00
3.16     NO                    NO
 L0001494         0   0.15232E-03  731676.2 4059046.1    63.7     3.40     4.00
3.16     NO                    NO
 L0001495         0   0.15232E-03  731684.8 4059046.3    63.7     3.40     4.00
3.16     NO                    NO
 L0001496         0   0.15232E-03  731693.4 4059046.5    63.6     3.40     4.00
3.16     NO                    NO
 L0001497         0   0.15232E-03  731702.0 4059046.7    63.6     3.40     4.00
3.16     NO                    NO
 L0001498         0   0.15232E-03  731710.6 4059046.9    63.6     3.40     4.00
3.16     NO                    NO
 L0001499         0   0.15232E-03  731719.2 4059047.1    63.6     3.40     4.00
3.16     NO                    NO
 L0001500         0   0.15232E-03  731727.8 4059047.3    63.6     3.40     4.00
3.16     NO                    NO
 L0001501         0   0.15232E-03  731736.4 4059047.4    63.6     3.40     4.00
3.16     NO                    NO
 L0001502         0   0.15232E-03  731745.0 4059047.6    63.5     3.40     4.00
3.16     NO                    NO
 L0001503         0   0.15232E-03  731753.6 4059047.8    63.5     3.40     4.00
3.16     NO                    NO
 L0001504         0   0.15232E-03  731762.2 4059048.0    63.5     3.40     4.00
3.16     NO                    NO
 L0001505         0   0.15232E-03  731770.8 4059048.2    63.4     3.40     4.00
3.16     NO                    NO
 L0001506         0   0.15232E-03  731779.4 4059048.4    63.4     3.40     4.00
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3.16   NO   NO
 L0001507   0   0.15232E-03 731788.0 4059048.6   63.4   3.40   4.00
3.16   NO   NO
 L0001508   0   0.15232E-03 731796.6 4059048.8   63.3   3.40   4.00
3.16   NO   NO
 L0001509   0   0.15232E-03 731805.2 4059049.0   63.3   3.40   4.00
3.16   NO   NO
 L0001510   0   0.15232E-03 731813.8 4059049.2   63.3   3.40   4.00
3.16   NO   NO
 L0001511   0   0.15232E-03 731822.4 4059049.4   63.3   3.40   4.00
3.16   NO   NO
 L0001512   0   0.15232E-03 731831.0 4059049.5   63.3   3.40   4.00
3.16   NO   NO
 L0001513   0   0.15232E-03 731839.6 4059049.7   63.2   3.40   4.00
3.16   NO   NO
 L0001514   0   0.15232E-03 731848.2 4059049.9   63.2   3.40   4.00
3.16   NO   NO
 L0001515   0   0.15232E-03 731856.8 4059050.1   63.2   3.40   4.00
3.16   NO   NO
 L0001516   0   0.15232E-03 731865.4 4059050.3   63.2   3.40   4.00
3.16   NO   NO
 L0001517   0   0.15232E-03 731874.0 4059050.5   63.2   3.40   4.00
3.16   NO   NO
 L0001518   0   0.15232E-03 731882.6 4059050.7   63.1   3.40   4.00
3.16   NO   NO
 L0001519   0   0.15232E-03 731891.2 4059050.9   63.1   3.40   4.00
3.16   NO   NO
 L0001520   0   0.15232E-03 731899.8 4059051.1   63.1   3.40   4.00
3.16   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

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

 L0001521   0   0.15232E-03 731908.4 4059051.3   63.1   3.40   4.00

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3.16     NO                    NO
 L0001522         0   0.15232E-03  731917.0 4059051.5    63.0     3.40     4.00
3.16     NO                    NO
 L0001523         0   0.15232E-03  731925.6 4059051.6    63.0     3.40     4.00
3.16     NO                    NO
 L0001524         0   0.15232E-03  731934.2 4059051.8    63.0     3.40     4.00
3.16     NO                    NO
 L0001525         0   0.15232E-03  731942.8 4059052.0    63.0     3.40     4.00
3.16     NO                    NO
 L0001526         0   0.15232E-03  731951.4 4059052.2    62.9     3.40     4.00
3.16     NO                    NO
 L0001527         0   0.15232E-03  731960.0 4059052.4    62.9     3.40     4.00
3.16     NO                    NO
 L0001528         0   0.15232E-03  731968.6 4059052.6    62.9     3.40     4.00
3.16     NO                    NO
 L0001529         0   0.15232E-03  731977.2 4059052.8    62.9     3.40     4.00
3.16     NO                    NO
 L0001530         0   0.15232E-03  731985.8 4059053.0    62.9     3.40     4.00
3.16     NO                    NO
 L0001531         0   0.15232E-03  731994.4 4059053.2    62.8     3.40     4.00
3.16     NO                    NO
 L0001532         0   0.15232E-03  732003.0 4059053.4    62.8     3.40     4.00
3.16     NO                    NO
 L0001533         0   0.15232E-03  732011.6 4059053.6    62.8     3.40     4.00
3.16     NO                    NO
 L0001534         0   0.15232E-03  732020.2 4059053.7    62.8     3.40     4.00
3.16     NO                    NO
 L0001535         0   0.15232E-03  732028.8 4059053.9    62.8     3.40     4.00
3.16     NO                    NO
 L0001536         0   0.15232E-03  732037.4 4059054.1    62.7     3.40     4.00
3.16     NO                    NO
 L0001537         0   0.15232E-03  732046.0 4059054.3    62.7     3.40     4.00
3.16     NO                    NO
 L0001538         0   0.15232E-03  732054.5 4059054.5    62.7     3.40     4.00
3.16     NO                    NO
 L0001539         0   0.15232E-03  732063.1 4059054.7    62.6     3.40     4.00
3.16     NO                    NO
 L0001540         0   0.15232E-03  732071.7 4059054.9    62.6     3.40     4.00
3.16     NO                    NO
 L0001541         0   0.15232E-03  732080.3 4059055.1    62.6     3.40     4.00
3.16     NO                    NO
 L0001542         0   0.15232E-03  732088.9 4059055.3    62.6     3.40     4.00
3.16     NO                    NO
 L0001543         0   0.15232E-03  732097.5 4059055.5    62.5     3.40     4.00
3.16     NO                    NO
 L0001544         0   0.15232E-03  732106.1 4059055.7    62.5     3.40     4.00
3.16     NO                    NO
 L0001545         0   0.15232E-03  732114.7 4059055.9    62.5     3.40     4.00
3.16     NO                    NO
 L0001546         0   0.15232E-03  732123.3 4059056.0    62.5     3.40     4.00
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3.16     NO                     NO
 L0001547         0   0.15232E-03  732131.9 4059056.2    62.5     3.40     4.00
3.16     NO                     NO
 L0001548         0   0.15232E-03  732140.5 4059056.4    62.4     3.40     4.00
3.16     NO                     NO
 L0001549         0   0.15232E-03  732148.4 4059055.8    62.4     3.40     4.00
3.16     NO                     NO
 L0001550         0   0.15232E-03  732148.5 4059047.2    62.4     3.40     4.00
3.16     NO                     NO
 L0001551         0   0.15232E-03  732148.6 4059038.6    62.4     3.40     4.00
3.16     NO                     NO
 L0001552         0   0.15232E-03  732148.7 4059030.0    62.4     3.40     4.00
3.16     NO                     NO
 L0001553         0   0.15232E-03  732148.7 4059021.4    62.4     3.40     4.00
3.16     NO                     NO
 L0001554         0   0.15232E-03  732148.8 4059012.8    62.4     3.40     4.00
3.16     NO                     NO
 L0001555         0   0.15232E-03  732148.9 4059004.2    62.5     3.40     4.00
3.16     NO                     NO
 L0001556         0   0.15232E-03  732149.0 4058995.6    62.5     3.40     4.00
3.16     NO                     NO
 L0001557         0   0.15232E-03  732149.1 4058987.0    62.5     3.40     4.00
3.16     NO                     NO
 L0001558         0   0.15232E-03  732149.2 4058978.4    62.5     3.40     4.00
3.16     NO                     NO
 L0001559         0   0.15232E-03  732149.3 4058969.8    62.5     3.40     4.00
3.16     NO                     NO
 L0001560         0   0.15232E-03  732149.4 4058961.2    62.5     3.40     4.00
3.16     NO                     NO
```


*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT SCALAR VARY
L0001561	0	0.15232E-03	732149.5	4058952.6	62.5	3.40	4.00			

```
3.16     NO                    NO
 L0001562         0   0.15232E-03  732149.6 4058944.0    62.5     3.40     4.00
3.16     NO                    NO
 L0001563         0   0.15232E-03  732149.7 4058935.4    62.5     3.40     4.00
3.16     NO                    NO
 L0001564         0   0.15232E-03  732149.8 4058926.8    62.5     3.40     4.00
3.16     NO                    NO
 L0001565         0   0.15232E-03  732149.9 4058918.2    62.5     3.40     4.00
3.16     NO                    NO
 L0001566         0   0.15232E-03  732150.0 4058909.6    62.5     3.40     4.00
3.16     NO                    NO
 L0001567         0   0.15232E-03  732150.1 4058901.0    62.5     3.40     4.00
3.16     NO                    NO
 L0001568         0   0.15232E-03  732150.2 4058892.4    62.5     3.40     4.00
3.16     NO                    NO
 L0001569         0   0.15232E-03  732150.3 4058883.8    62.5     3.40     4.00
3.16     NO                    NO
 L0001570         0   0.15232E-03  732150.3 4058875.2    62.5     3.40     4.00
3.16     NO                    NO
 L0001571         0   0.15232E-03  732150.4 4058866.6    62.6     3.40     4.00
3.16     NO                    NO
 L0001572         0   0.15232E-03  732150.5 4058858.0    62.6     3.40     4.00
3.16     NO                    NO
 L0001573         0   0.15232E-03  732150.6 4058849.4    62.6     3.40     4.00
3.16     NO                    NO
 L0001574         0   0.15232E-03  732150.7 4058840.8    62.6     3.40     4.00
3.16     NO                    NO
 L0001575         0   0.15232E-03  732150.8 4058832.2    62.6     3.40     4.00
3.16     NO                    NO
 L0001576         0   0.15232E-03  732150.9 4058823.7    62.6     3.40     4.00
3.16     NO                    NO
 L0001577         0   0.15232E-03  732151.0 4058815.1    62.6     3.40     4.00
3.16     NO                    NO
 L0001578         0   0.15232E-03  732151.1 4058806.5    62.6     3.40     4.00
3.16     NO                    NO
 L0001579         0   0.15232E-03  732151.2 4058797.9    62.6     3.40     4.00
3.16     NO                    NO
 L0001580         0   0.15232E-03  732151.3 4058789.3    62.6     3.40     4.00
3.16     NO                    NO
 L0001581         0   0.15232E-03  732151.4 4058780.7    62.6     3.40     4.00
3.16     NO                    NO
 L0001582         0   0.15232E-03  732151.5 4058772.1    62.6     3.40     4.00
3.16     NO                    NO
 L0001583         0   0.15232E-03  732151.6 4058763.5    62.6     3.40     4.00
3.16     NO                    NO
 L0001584         0   0.15232E-03  732151.7 4058754.9    62.6     3.40     4.00
3.16     NO                    NO
 L0001585         0   0.15232E-03  732151.8 4058746.3    62.6     3.40     4.00
3.16     NO                    NO
 L0001586         0   0.15232E-03  732151.9 4058737.7    62.6     3.40     4.00
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3.16 NO NO
L0001587 0 0.15232E-03 732151.9 4058729.1 62.6 3.40 4.00
3.16 NO NO
L0001588 0 0.15232E-03 732152.0 4058720.5 62.6 3.40 4.00
3.16 NO NO
L0001589 0 0.15232E-03 732152.1 4058711.9 62.6 3.40 4.00
3.16 NO NO
L0001590 0 0.15232E-03 732152.2 4058703.3 62.6 3.40 4.00
3.16 NO NO
L0001591 0 0.15232E-03 732152.3 4058694.7 62.6 3.40 4.00
3.16 NO NO
L0001592 0 0.15232E-03 732152.4 4058686.1 62.7 3.40 4.00
3.16 NO NO
L0001593 0 0.15232E-03 732152.5 4058677.5 62.7 3.40 4.00
3.16 NO NO
L0001594 0 0.15232E-03 732152.6 4058668.9 62.7 3.40 4.00
3.16 NO NO
L0001595 0 0.15232E-03 732152.7 4058660.3 62.7 3.40 4.00
3.16 NO NO
L0001596 0 0.15232E-03 732152.8 4058651.7 62.7 3.40 4.00
3.16 NO NO
L0001597 0 0.15232E-03 732152.9 4058643.1 62.7 3.40 4.00
3.16 NO NO
L0001598 0 0.15232E-03 732153.0 4058634.5 62.7 3.40 4.00
3.16 NO NO
L0001599 0 0.15232E-03 732153.1 4058625.9 62.7 3.40 4.00
3.16 NO NO
L0001600 0 0.15232E-03 732153.2 4058617.3 62.7 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE SCALAR VARY BY	AIRCRAFT
L0001601	0	0.15232E-03	732153.3	4058608.7	62.7	3.40	4.00			

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3.16     NO                    NO
 L0001602         0   0.15232E-03  732153.4 4058600.1    62.7     3.40     4.00
3.16     NO                    NO
 L0001603         0   0.15232E-03  732153.4 4058591.5    62.7     3.40     4.00
3.16     NO                    NO
 L0001604         0   0.15232E-03  732153.5 4058582.9    62.7     3.40     4.00
3.16     NO                    NO
 L0001605         0   0.15232E-03  732153.6 4058574.3    62.7     3.40     4.00
3.16     NO                    NO
 L0001606         0   0.15232E-03  732153.7 4058565.7    62.7     3.40     4.00
3.16     NO                    NO
 L0001607         0   0.15232E-03  732153.8 4058557.1    62.7     3.40     4.00
3.16     NO                    NO
 L0001608         0   0.15232E-03  732153.9 4058548.5    62.8     3.40     4.00
3.16     NO                    NO
 L0001609         0   0.15232E-03  732154.0 4058539.9    62.8     3.40     4.00
3.16     NO                    NO
 L0001610         0   0.15232E-03  732154.1 4058531.3    62.8     3.40     4.00
3.16     NO                    NO
 L0001611         0   0.15232E-03  732154.2 4058522.7    62.8     3.40     4.00
3.16     NO                    NO
 L0001612         0   0.15232E-03  732154.3 4058514.1    62.8     3.40     4.00
3.16     NO                    NO
 L0001613         0   0.15232E-03  732154.4 4058505.5    62.8     3.40     4.00
3.16     NO                    NO
 L0001614         0   0.15232E-03  732154.5 4058496.9    62.8     3.40     4.00
3.16     NO                    NO
 L0001615         0   0.15232E-03  732154.6 4058488.3    62.8     3.40     4.00
3.16     NO                    NO
 L0001616         0   0.15232E-03  732154.7 4058479.7    62.8     3.40     4.00
3.16     NO                    NO
 L0001617         0   0.15232E-03  732154.8 4058471.1    62.8     3.40     4.00
3.16     NO                    NO
 L0001618         0   0.15232E-03  732154.9 4058462.5    62.8     3.40     4.00
3.16     NO                    NO
 L0001619         0   0.15232E-03  732155.0 4058453.9    62.8     3.40     4.00
3.16     NO                    NO
 L0001620         0   0.15232E-03  732155.0 4058445.3    62.8     3.40     4.00
3.16     NO                    NO
 L0001621         0   0.15232E-03  732155.1 4058436.7    62.8     3.40     4.00
3.16     NO                    NO
 L0001622         0   0.15232E-03  732155.2 4058428.1    62.8     3.40     4.00
3.16     NO                    NO
 L0001623         0   0.15232E-03  732155.3 4058419.5    62.8     3.40     4.00
3.16     NO                    NO
 L0001624         0   0.15232E-03  732155.4 4058410.9    62.8     3.40     4.00
3.16     NO                    NO
 L0001625         0   0.15232E-03  732155.5 4058402.3    62.8     3.40     4.00
3.16     NO                    NO
 L0001626         0   0.15232E-03  732155.6 4058393.7    62.8     3.40     4.00
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3.16 NO NO
L0001627 0 0.15232E-03 732155.7 4058385.1 62.8 3.40 4.00
3.16 NO NO
L0001628 0 0.15232E-03 732155.8 4058376.5 62.9 3.40 4.00
3.16 NO NO
L0001629 0 0.15232E-03 732155.9 4058367.9 62.9 3.40 4.00
3.16 NO NO
L0001630 0 0.15232E-03 732156.0 4058359.3 62.9 3.40 4.00
3.16 NO NO
L0001631 0 0.15232E-03 732156.1 4058350.7 62.9 3.40 4.00
3.16 NO NO
L0001632 0 0.15232E-03 732156.2 4058342.1 62.9 3.40 4.00
3.16 NO NO
L0001633 0 0.15232E-03 732156.3 4058333.5 62.9 3.40 4.00
3.16 NO NO
L0001634 0 0.15232E-03 732156.4 4058324.9 62.9 3.40 4.00
3.16 NO NO
L0001635 0 0.15232E-03 732156.5 4058316.3 62.9 3.40 4.00
3.16 NO NO
L0001636 0 0.15232E-03 732156.5 4058307.7 62.9 3.40 4.00
3.16 NO NO
L0001637 0 0.15232E-03 732156.6 4058299.1 62.9 3.40 4.00
3.16 NO NO
L0001638 0 0.15232E-03 732156.7 4058290.5 62.9 3.40 4.00
3.16 NO NO
L0001639 0 0.15232E-03 732156.8 4058281.9 62.9 3.40 4.00
3.16 NO NO
L0001640 0 0.15232E-03 732156.9 4058273.3 63.0 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT EMISSION RATE SCALAR VARY
L0001641	0	0.15232E-03	732157.0	4058264.7	63.0	3.40	4.00			

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3.16     NO                    NO
 L0001642         0   0.15232E-03  732157.1 4058256.1    63.0     3.40     4.00
3.16     NO                    NO
 L0001643         0   0.15232E-03  732157.2 4058247.5    63.0     3.40     4.00
3.16     NO                    NO
 L0001644         0   0.15232E-03  732157.3 4058238.9    63.0     3.40     4.00
3.16     NO                    NO
 L0001645         0   0.15232E-03  732157.4 4058230.3    63.0     3.40     4.00
3.16     NO                    NO
 L0001646         0   0.15232E-03  732157.5 4058221.7    63.0     3.40     4.00
3.16     NO                    NO
 L0001647         0   0.15232E-03  732157.6 4058213.1    63.0     3.40     4.00
3.16     NO                    NO
 L0001648         0   0.15232E-03  732157.7 4058204.5    63.0     3.40     4.00
3.16     NO                    NO
 L0001649         0   0.15232E-03  732157.8 4058195.9    63.0     3.40     4.00
3.16     NO                    NO
 L0001650         0   0.15232E-03  732157.9 4058187.3    63.0     3.40     4.00
3.16     NO                    NO
 L0001651         0   0.15232E-03  732158.0 4058178.7    63.0     3.40     4.00
3.16     NO                    NO
 L0001652         0   0.15232E-03  732158.1 4058170.1    63.0     3.40     4.00
3.16     NO                    NO
 L0001653         0   0.15232E-03  732158.1 4058161.5    63.0     3.40     4.00
3.16     NO                    NO
 L0001654         0   0.15232E-03  732158.2 4058152.9    63.1     3.40     4.00
3.16     NO                    NO
 L0001655         0   0.15232E-03  732158.3 4058144.3    63.1     3.40     4.00
3.16     NO                    NO
 L0001656         0   0.15232E-03  732158.4 4058135.7    63.1     3.40     4.00
3.16     NO                    NO
 L0001657         0   0.15232E-03  732158.5 4058127.1    63.1     3.40     4.00
3.16     NO                    NO
 L0001658         0   0.15232E-03  732158.6 4058118.5    63.1     3.40     4.00
3.16     NO                    NO
 L0001659         0   0.15232E-03  732158.7 4058109.9    63.1     3.40     4.00
3.16     NO                    NO
 L0001660         0   0.15232E-03  732158.8 4058101.3    63.1     3.40     4.00
3.16     NO                    NO
 L0001661         0   0.15232E-03  732158.9 4058092.7    63.1     3.40     4.00
3.16     NO                    NO
 L0001662         0   0.15232E-03  732159.0 4058084.1    63.1     3.40     4.00
3.16     NO                    NO
 L0001663         0   0.15232E-03  732159.1 4058075.5    63.1     3.40     4.00
3.16     NO                    NO
 L0001664         0   0.15232E-03  732159.2 4058066.9    63.1     3.40     4.00
3.16     NO                    NO
 L0001665         0   0.15232E-03  732159.3 4058058.3    63.1     3.40     4.00
3.16     NO                    NO
 L0001666         0   0.15232E-03  732159.4 4058049.7    63.1     3.40     4.00
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3.16   NO   NO
 L0001667   0   0.15232E-03 732159.5 4058041.1   63.1   3.40   4.00
3.16   NO   NO
 L0001668   0   0.15232E-03 732159.6 4058032.5   63.1   3.40   4.00
3.16   NO   NO
 L0001669   0   0.15232E-03 732159.7 4058023.9   63.1   3.40   4.00
3.16   NO   NO
 L0001670   0   0.15232E-03 732159.7 4058015.3   63.1   3.40   4.00
3.16   NO   NO
 L0001671   0   0.15232E-03 732159.8 4058006.7   63.1   3.40   4.00
3.16   NO   NO
 L0001672   0   0.15232E-03 732159.9 4057998.1   63.1   3.40   4.00
3.16   NO   NO
 L0001673   0   0.15232E-03 732160.0 4057989.5   63.1   3.40   4.00
3.16   NO   NO
 L0001674   0   0.15232E-03 732160.1 4057980.9   63.1   3.40   4.00
3.16   NO   NO
 L0001675   0   0.15232E-03 732160.2 4057972.3   63.2   3.40   4.00
3.16   NO   NO
 L0001676   0   0.15232E-03 732160.3 4057963.7   63.2   3.40   4.00
3.16   NO   NO
 L0001677   0   0.15232E-03 732160.4 4057955.1   63.2   3.40   4.00
3.16   NO   NO
 L0001678   0   0.15232E-03 732160.5 4057946.5   63.2   3.40   4.00
3.16   NO   NO
 L0001679   0   0.15232E-03 732160.6 4057937.9   63.2   3.40   4.00
3.16   NO   NO
 L0001680   0   0.15232E-03 732160.7 4057929.3   63.2   3.40   4.00
3.16   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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 L0001681   0   0.15232E-03 732160.8 4057920.7   63.2   3.40   4.00

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3.16     NO                    NO
 L0001682         0   0.15232E-03  732160.9 4057912.1    63.2     3.40     4.00
3.16     NO                    NO
 L0001683         0   0.15232E-03  732161.0 4057903.5    63.2     3.40     4.00
3.16     NO                    NO
 L0001684         0   0.15232E-03  732161.1 4057894.9    63.2     3.40     4.00
3.16     NO                    NO
 L0001685         0   0.15232E-03  732161.2 4057886.3    63.2     3.40     4.00
3.16     NO                    NO
 L0001686         0   0.15232E-03  732161.2 4057877.7    63.2     3.40     4.00
3.16     NO                    NO
 L0001687         0   0.15232E-03  732161.3 4057869.1    63.2     3.40     4.00
3.16     NO                    NO
 L0001688         0   0.15232E-03  732161.4 4057860.5    63.2     3.40     4.00
3.16     NO                    NO
 L0001689         0   0.15232E-03  732161.5 4057851.9    63.2     3.40     4.00
3.16     NO                    NO
 L0001690         0   0.15232E-03  732161.6 4057843.3    63.2     3.40     4.00
3.16     NO                    NO
 L0001691         0   0.15232E-03  732161.7 4057834.7    63.2     3.40     4.00
3.16     NO                    NO
 L0001692         0   0.15232E-03  732161.8 4057826.1    63.2     3.40     4.00
3.16     NO                    NO
 L0001693         0   0.15232E-03  732161.9 4057817.5    63.2     3.40     4.00
3.16     NO                    NO
 L0001694         0   0.15232E-03  732162.0 4057808.9    63.2     3.40     4.00
3.16     NO                    NO
 L0001695         0   0.15232E-03  732162.1 4057800.3    63.2     3.40     4.00
3.16     NO                    NO
 L0001696         0   0.15232E-03  732162.2 4057791.7    63.2     3.40     4.00
3.16     NO                    NO
 L0001697         0   0.15232E-03  732162.3 4057783.1    63.2     3.40     4.00
3.16     NO                    NO
 L0001698         0   0.15232E-03  732162.4 4057774.5    63.2     3.40     4.00
3.16     NO                    NO
 L0001699         0   0.15232E-03  732162.5 4057765.9    63.2     3.40     4.00
3.16     NO                    NO
 L0001700         0   0.15232E-03  732162.6 4057757.3    63.3     3.40     4.00
3.16     NO                    NO
 L0001701         0   0.15232E-03  732162.7 4057748.7    63.3     3.40     4.00
3.16     NO                    NO
 L0001702         0   0.15232E-03  732162.8 4057740.1    63.3     3.40     4.00
3.16     NO                    NO
 L0001703         0   0.15232E-03  732162.8 4057731.5    63.3     3.40     4.00
3.16     NO                    NO
 L0001704         0   0.15232E-03  732162.9 4057722.9    63.3     3.40     4.00
3.16     NO                    NO
 L0001705         0   0.15232E-03  732163.0 4057714.3    63.3     3.40     4.00
3.16     NO                    NO
 L0001706         0   0.15232E-03  732163.1 4057705.7    63.3     3.40     4.00
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3.16   NO   NO
 L0001707   0   0.15232E-03 732163.2 4057697.1   63.3   3.40   4.00
3.16   NO   NO
 L0001708   0   0.15232E-03 732163.3 4057688.5   63.3   3.40   4.00
3.16   NO   NO
 L0001709   0   0.15232E-03 732163.4 4057679.9   63.3   3.40   4.00
3.16   NO   NO
 L0001710   0   0.15232E-03 732163.5 4057671.3   63.3   3.40   4.00
3.16   NO   NO
 L0001711   0   0.15232E-03 732163.6 4057662.7   63.3   3.40   4.00
3.16   NO   NO
 L0001712   0   0.15232E-03 732163.7 4057654.1   63.3   3.40   4.00
3.16   NO   NO
 L0001713   0   0.15232E-03 732163.8 4057645.5   63.3   3.40   4.00
3.16   NO   NO
 L0001714   0   0.15232E-03 732163.9 4057636.9   63.3   3.40   4.00
3.16   NO   NO
 L0001715   0   0.15232E-03 732164.0 4057628.3   63.3   3.40   4.00
3.16   NO   NO
 L0001716   0   0.15232E-03 732164.1 4057619.7   63.3   3.40   4.00
3.16   NO   NO
 L0001717   0   0.15232E-03 732164.2 4057611.1   63.3   3.40   4.00
3.16   NO   NO
 L0001718   0   0.15232E-03 732164.3 4057602.5   63.4   3.40   4.00
3.16   NO   NO
 L0001719   0   0.15232E-03 732164.4 4057593.9   63.4   3.40   4.00
3.16   NO   NO
 L0001720   0   0.15232E-03 732164.4 4057585.3   63.4   3.40   4.00
3.16   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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 L0001721   0   0.15232E-03 732164.5 4057576.7   63.4   3.40   4.00

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3.16     NO                    NO
 L0001722         0   0.15232E-03  732164.6 4057568.1    63.4     3.40     4.00
3.16     NO                    NO
 L0001723         0   0.15232E-03  732164.7 4057559.5    63.4     3.40     4.00
3.16     NO                    NO
 L0001724         0   0.15232E-03  732164.8 4057550.9    63.4     3.40     4.00
3.16     NO                    NO
 L0001725         0   0.15232E-03  732164.9 4057542.3    63.4     3.40     4.00
3.16     NO                    NO
 L0001726         0   0.15232E-03  732165.0 4057533.7    63.4     3.40     4.00
3.16     NO                    NO
 L0001727         0   0.15232E-03  732165.1 4057525.1    63.4     3.40     4.00
3.16     NO                    NO
 L0001728         0   0.15232E-03  732165.2 4057516.5    63.4     3.40     4.00
3.16     NO                    NO
 L0001729         0   0.15232E-03  732165.3 4057507.9    63.4     3.40     4.00
3.16     NO                    NO
 L0001730         0   0.15232E-03  732165.4 4057499.3    63.4     3.40     4.00
3.16     NO                    NO
 L0001731         0   0.15232E-03  732165.5 4057490.7    63.4     3.40     4.00
3.16     NO                    NO
 L0001732         0   0.15232E-03  732165.6 4057482.1    63.4     3.40     4.00
3.16     NO                    NO
 L0001733         0   0.15232E-03  732165.7 4057473.5    63.4     3.40     4.00
3.16     NO                    NO
 L0001734         0   0.15232E-03  732171.6 4057471.2    63.4     3.40     4.00
3.16     NO                    NO
 L0001735         0   0.15232E-03  732180.2 4057471.6    63.4     3.40     4.00
3.16     NO                    NO
 L0001736         0   0.15232E-03  732188.8 4057472.0    63.4     3.40     4.00
3.16     NO                    NO
 L0001737         0   0.15232E-03  732197.4 4057472.4    63.4     3.40     4.00
3.16     NO                    NO
 L0001738         0   0.15232E-03  732206.0 4057472.9    63.4     3.40     4.00
3.16     NO                    NO
 L0001739         0   0.15232E-03  732214.6 4057473.3    63.4     3.40     4.00
3.16     NO                    NO
 L0001740         0   0.15232E-03  732223.2 4057473.7    63.4     3.40     4.00
3.16     NO                    NO
 L0001741         0   0.15232E-03  732231.8 4057474.1    63.3     3.40     4.00
3.16     NO                    NO
 L0001742         0   0.15232E-03  732240.4 4057474.6    63.3     3.40     4.00
3.16     NO                    NO
 L0001743         0   0.15232E-03  732248.9 4057475.0    63.3     3.40     4.00
3.16     NO                    NO
 L0001744         0   0.15232E-03  732257.5 4057475.4    63.3     3.40     4.00
3.16     NO                    NO
 L0001745         0   0.15232E-03  732266.1 4057475.8    63.3     3.40     4.00
3.16     NO                    NO
 L0001746         0   0.15232E-03  732274.7 4057476.2    63.3     3.40     4.00
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3.16   NO   NO
 L0001747   0   0.15232E-03 732283.3 4057476.7   63.2   3.40   4.00
3.16   NO   NO
 L0001748   0   0.15232E-03 732291.9 4057477.1   63.2   3.40   4.00
3.16   NO   NO
 L0001749   0   0.15232E-03 732300.5 4057477.5   63.2   3.40   4.00
3.16   NO   NO
 L0001750   0   0.15232E-03 732309.1 4057477.9   63.2   3.40   4.00
3.16   NO   NO
 L0001751   0   0.15232E-03 732317.7 4057478.4   63.2   3.40   4.00
3.16   NO   NO
 L0001752   0   0.15232E-03 732326.3 4057478.8   63.2   3.40   4.00
3.16   NO   NO
 L0001753   0   0.15232E-03 732334.8 4057479.2   63.1   3.40   4.00
3.16   NO   NO
 L0001754   0   0.15232E-03 732343.4 4057479.6   63.1   3.40   4.00
3.16   NO   NO
 L0001755   0   0.15232E-03 732352.0 4057480.0   63.1   3.40   4.00
3.16   NO   NO
 L0001756   0   0.15232E-03 732360.6 4057480.5   63.1   3.40   4.00
3.16   NO   NO
 L0001757   0   0.15232E-03 732369.2 4057480.9   63.1   3.40   4.00
3.16   NO   NO
 L0001758   0   0.15232E-03 732377.8 4057481.3   63.0   3.40   4.00
3.16   NO   NO
 L0001759   0   0.15232E-03 732386.4 4057481.7   63.0   3.40   4.00
3.16   NO   NO
 L0001760   0   0.15232E-03 732395.0 4057482.2   63.0   3.40   4.00
3.16   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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 L0001761   0   0.15232E-03 732403.6 4057482.6   62.9   3.40   4.00

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3.16     NO                    NO
 L0001762         0   0.15232E-03  732412.1 4057483.0    62.9     3.40     4.00
3.16     NO                    NO
 L0001763         0   0.15232E-03  732420.7 4057483.4    62.9     3.40     4.00
3.16     NO                    NO
 L0001764         0   0.15232E-03  732429.3 4057483.8    62.9     3.40     4.00
3.16     NO                    NO
 L0001765         0   0.15232E-03  732437.9 4057484.3    62.9     3.40     4.00
3.16     NO                    NO
 L0001766         0   0.15232E-03  732446.5 4057484.7    62.9     3.40     4.00
3.16     NO                    NO
 L0001767         0   0.15232E-03  732455.1 4057485.1    62.8     3.40     4.00
3.16     NO                    NO
 L0001768         0   0.15232E-03  732463.7 4057485.5    62.8     3.40     4.00
3.16     NO                    NO
 L0001769         0   0.15232E-03  732472.3 4057486.0    62.8     3.40     4.00
3.16     NO                    NO
 L0001770         0   0.15232E-03  732480.9 4057486.4    62.7     3.40     4.00
3.16     NO                    NO
 L0001771         0   0.15232E-03  732489.5 4057486.8    62.7     3.40     4.00
3.16     NO                    NO
 L0001772         0   0.15232E-03  732498.0 4057487.2    62.7     3.40     4.00
3.16     NO                    NO
 L0001773         0   0.15232E-03  732506.6 4057487.7    62.7     3.40     4.00
3.16     NO                    NO
 L0001774         0   0.15232E-03  732515.2 4057488.1    62.6     3.40     4.00
3.16     NO                    NO
 L0001775         0   0.15232E-03  732523.8 4057488.5    62.6     3.40     4.00
3.16     NO                    NO
 L0001776         0   0.15232E-03  732532.4 4057488.9    62.6     3.40     4.00
3.16     NO                    NO
 L0001777         0   0.15232E-03  732541.0 4057489.3    62.6     3.40     4.00
3.16     NO                    NO
 L0001778         0   0.15232E-03  732549.6 4057489.8    62.6     3.40     4.00
3.16     NO                    NO
 L0001779         0   0.15232E-03  732558.2 4057490.2    62.5     3.40     4.00
3.16     NO                    NO
 L0001780         0   0.15232E-03  732566.8 4057490.6    62.5     3.40     4.00
3.16     NO                    NO
 L0001781         0   0.15232E-03  732575.4 4057491.0    62.5     3.40     4.00
3.16     NO                    NO
 L0001782         0   0.15232E-03  732583.9 4057491.5    62.4     3.40     4.00
3.16     NO                    NO
 L0001783         0   0.15232E-03  732592.5 4057491.9    62.4     3.40     4.00
3.16     NO                    NO
 L0001784         0   0.15232E-03  732601.1 4057492.3    62.4     3.40     4.00
3.16     NO                    NO
 L0001785         0   0.15232E-03  732609.7 4057492.7    62.4     3.40     4.00
3.16     NO                    NO
 L0001786         0   0.15232E-03  732618.3 4057493.1    62.4     3.40     4.00
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3.16     NO                     NO
 L0001787         0   0.15232E-03  732626.9 4057493.6    62.3     3.40     4.00
3.16     NO                     NO
 L0001788         0   0.15232E-03  732635.5 4057494.0    62.3     3.40     4.00
3.16     NO                     NO
 L0001789         0   0.15232E-03  732644.1 4057494.4    62.3     3.40     4.00
3.16     NO                     NO
 L0001790         0   0.15232E-03  732652.7 4057494.8    62.3     3.40     4.00
3.16     NO                     NO
 L0001791         0   0.15232E-03  732661.2 4057495.3    62.2     3.40     4.00
3.16     NO                     NO
 L0001792         0   0.15232E-03  732669.8 4057495.7    62.2     3.40     4.00
3.16     NO                     NO
 L0001793         0   0.15232E-03  732678.4 4057496.1    62.2     3.40     4.00
3.16     NO                     NO
 L0001794         0   0.15232E-03  732687.0 4057496.5    62.2     3.40     4.00
3.16     NO                     NO
 L0001795         0   0.15232E-03  732695.6 4057496.9    62.2     3.40     4.00
3.16     NO                     NO
 L0001796         0   0.15232E-03  732704.2 4057497.4    62.1     3.40     4.00
3.16     NO                     NO
 L0001797         0   0.15232E-03  732712.8 4057497.8    62.1     3.40     4.00
3.16     NO                     NO
 L0001798         0   0.15232E-03  732721.4 4057498.2    62.1     3.40     4.00
3.16     NO                     NO
 L0001799         0   0.15232E-03  732730.0 4057498.6    62.0     3.40     4.00
3.16     NO                     NO
 L0001800         0   0.15232E-03  732738.6 4057499.1    62.0     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  47
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0001801         0   0.15232E-03  732747.1 4057499.5    62.0     3.40     4.00
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3.16     NO                    NO
 L0001802         0   0.15232E-03  732755.7 4057499.9    62.0     3.40     4.00
3.16     NO                    NO
 L0001803         0   0.15232E-03  732764.3 4057500.3    62.0     3.40     4.00
3.16     NO                    NO
 L0001804         0   0.15232E-03  732772.9 4057500.7    62.0     3.40     4.00
3.16     NO                    NO
 L0001805         0   0.15232E-03  732781.5 4057501.2    61.9     3.40     4.00
3.16     NO                    NO
 L0001806         0   0.15232E-03  732790.1 4057501.6    61.9     3.40     4.00
3.16     NO                    NO
 L0001807         0   0.15232E-03  732798.7 4057502.0    61.9     3.40     4.00
3.16     NO                    NO
 L0001808         0   0.15232E-03  732807.3 4057502.4    61.8     3.40     4.00
3.16     NO                    NO
 L0001809         0   0.15232E-03  732815.9 4057502.9    61.8     3.40     4.00
3.16     NO                    NO
 L0001810         0   0.15232E-03  732824.5 4057503.3    61.8     3.40     4.00
3.16     NO                    NO
 L0001811         0   0.15232E-03  732833.0 4057503.7    61.8     3.40     4.00
3.16     NO                    NO
 L0001812         0   0.15232E-03  732841.6 4057504.1    61.8     3.40     4.00
3.16     NO                    NO
 L0001813         0   0.15232E-03  732850.2 4057504.5    61.8     3.40     4.00
3.16     NO                    NO
 L0001814         0   0.15232E-03  732858.8 4057505.0    61.7     3.40     4.00
3.16     NO                    NO
 L0001815         0   0.15232E-03  732867.4 4057505.4    61.7     3.40     4.00
3.16     NO                    NO
 L0001816         0   0.15232E-03  732876.0 4057505.8    61.7     3.40     4.00
3.16     NO                    NO
 L0001817         0   0.15232E-03  732884.6 4057506.2    61.6     3.40     4.00
3.16     NO                    NO
 L0001818         0   0.15232E-03  732893.2 4057506.7    61.6     3.40     4.00
3.16     NO                    NO
 L0001819         0   0.15232E-03  732901.8 4057507.1    61.6     3.40     4.00
3.16     NO                    NO
 L0001820         0   0.15232E-03  732910.3 4057507.5    61.6     3.40     4.00
3.16     NO                    NO
 L0001821         0   0.15232E-03  732918.9 4057507.9    61.6     3.40     4.00
3.16     NO                    NO
 L0001822         0   0.15232E-03  732927.5 4057508.4    61.5     3.40     4.00
3.16     NO                    NO
 L0001823         0   0.15232E-03  732936.1 4057508.8    61.5     3.40     4.00
3.16     NO                    NO
 L0001824         0   0.15232E-03  732944.7 4057509.2    61.5     3.40     4.00
3.16     NO                    NO
 L0001825         0   0.15232E-03  732953.3 4057509.6    61.4     3.40     4.00
3.16     NO                    NO
 L0001826         0   0.15232E-03  732961.9 4057510.0    61.4     3.40     4.00
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3.16 NO NO
L0001827 0 0.15232E-03 732970.5 4057510.5 61.4 3.40 4.00
3.16 NO NO
L0001828 0 0.15232E-03 732979.1 4057510.9 61.3 3.40 4.00
3.16 NO NO
L0001829 0 0.15232E-03 732987.7 4057511.3 61.3 3.40 4.00
3.16 NO NO
L0001830 0 0.15232E-03 732996.2 4057511.7 61.3 3.40 4.00
3.16 NO NO
L0001831 0 0.15232E-03 733004.8 4057512.2 61.3 3.40 4.00
3.16 NO NO
L0001832 0 0.15232E-03 733013.4 4057512.6 61.3 3.40 4.00
3.16 NO NO
L0001833 0 0.15232E-03 733022.0 4057513.0 61.3 3.40 4.00
3.16 NO NO
L0001834 0 0.15232E-03 733030.6 4057513.4 61.2 3.40 4.00
3.16 NO NO
L0001835 0 0.15232E-03 733039.2 4057513.8 61.2 3.40 4.00
3.16 NO NO
L0001836 0 0.15232E-03 733047.8 4057514.3 61.2 3.40 4.00
3.16 NO NO
L0001837 0 0.15232E-03 733056.4 4057514.7 61.1 3.40 4.00
3.16 NO NO
L0001838 0 0.15232E-03 733065.0 4057515.1 61.1 3.40 4.00
3.16 NO NO
L0001839 0 0.15232E-03 733073.6 4057515.5 61.1 3.40 4.00
3.16 NO NO
L0001840 0 0.15232E-03 733082.1 4057516.0 61.0 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY	AIRCRAFT
L0001841	0	0.15232E-03	733090.7	4057516.4	61.0	3.40	4.00				

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3.16     NO                    NO
 L0001842         0   0.15232E-03  733099.3 4057516.8    61.0     3.40     4.00
3.16     NO                    NO
 L0001843         0   0.15232E-03  733107.9 4057517.2    61.0     3.40     4.00
3.16     NO                    NO
 L0001844         0   0.15232E-03  733116.5 4057517.6    61.0     3.40     4.00
3.16     NO                    NO
 L0001845         0   0.15232E-03  733125.1 4057518.1    60.9     3.40     4.00
3.16     NO                    NO
 L0001846         0   0.15232E-03  733133.7 4057518.5    60.9     3.40     4.00
3.16     NO                    NO
 L0001847         0   0.15232E-03  733142.3 4057518.9    60.9     3.40     4.00
3.16     NO                    NO
 L0001848         0   0.15232E-03  733150.9 4057519.3    60.8     3.40     4.00
3.16     NO                    NO
 L0001849         0   0.15232E-03  733159.4 4057519.8    60.8     3.40     4.00
3.16     NO                    NO
 L0001850         0   0.15232E-03  733168.0 4057520.2    60.8     3.40     4.00
3.16     NO                    NO
 L0001851         0   0.15232E-03  733176.6 4057520.6    60.8     3.40     4.00
3.16     NO                    NO
 L0001852         0   0.15232E-03  733185.2 4057521.0    60.8     3.40     4.00
3.16     NO                    NO
 L0001853         0   0.15232E-03  733193.8 4057521.4    60.8     3.40     4.00
3.16     NO                    NO
 L0001854         0   0.15232E-03  733202.4 4057521.9    60.7     3.40     4.00
3.16     NO                    NO
 L0001855         0   0.15232E-03  733211.0 4057522.3    60.7     3.40     4.00
3.16     NO                    NO
 L0001856         0   0.15232E-03  733219.6 4057522.7    60.7     3.40     4.00
3.16     NO                    NO
 L0001857         0   0.15232E-03  733222.7 4057528.2    60.6     3.40     4.00
3.16     NO                    NO
 L0001858         0   0.15232E-03  733222.6 4057536.8    60.6     3.40     4.00
3.16     NO                    NO
 L0001859         0   0.15232E-03  733222.4 4057545.4    60.6     3.40     4.00
3.16     NO                    NO
 L0001860         0   0.15232E-03  733222.2 4057554.0    60.6     3.40     4.00
3.16     NO                    NO
 L0001861         0   0.15232E-03  733222.1 4057562.6    60.6     3.40     4.00
3.16     NO                    NO
 L0001862         0   0.15232E-03  733221.9 4057571.2    60.6     3.40     4.00
3.16     NO                    NO
 L0001863         0   0.15232E-03  733221.7 4057579.8    60.6     3.40     4.00
3.16     NO                    NO
 L0001864         0   0.15232E-03  733221.6 4057588.4    60.6     3.40     4.00
3.16     NO                    NO
 L0001865         0   0.15232E-03  733221.4 4057597.0    60.6     3.40     4.00
3.16     NO                    NO
 L0001866         0   0.15232E-03  733221.2 4057605.6    60.6     3.40     4.00
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3.16     NO                     NO
 L0001867         0   0.15232E-03  733221.1 4057614.2    60.6     3.40     4.00
3.16     NO                     NO
 L0001868         0   0.15232E-03  733220.9 4057622.8    60.6     3.40     4.00
3.16     NO                     NO
 L0001869         0   0.15232E-03  733220.7 4057631.4    60.6     3.40     4.00
3.16     NO                     NO
 L0001870         0   0.15232E-03  733220.6 4057640.0    60.6     3.40     4.00
3.16     NO                     NO
 L0001871         0   0.15232E-03  733220.4 4057648.6    60.5     3.40     4.00
3.16     NO                     NO
 L0001872         0   0.15232E-03  733220.2 4057657.2    60.5     3.40     4.00
3.16     NO                     NO
 L0001873         0   0.15232E-03  733220.1 4057665.8    60.5     3.40     4.00
3.16     NO                     NO
 L0001874         0   0.15232E-03  733219.9 4057674.4    60.5     3.40     4.00
3.16     NO                     NO
 L0001875         0   0.15232E-03  733219.7 4057683.0    60.5     3.40     4.00
3.16     NO                     NO
 L0001876         0   0.15232E-03  733219.6 4057691.6    60.5     3.40     4.00
3.16     NO                     NO
 L0001877         0   0.15232E-03  733219.4 4057700.2    60.5     3.40     4.00
3.16     NO                     NO
 L0001878         0   0.15232E-03  733219.3 4057708.8    60.5     3.40     4.00
3.16     NO                     NO
 L0001879         0   0.15232E-03  733219.1 4057717.4    60.5     3.40     4.00
3.16     NO                     NO
 L0001880         0   0.15232E-03  733218.9 4057726.0    60.5     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  49
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0001881         0   0.15232E-03  733218.8 4057734.6    60.5     3.40     4.00
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3.16     NO                    NO
 L0001882         0   0.15232E-03  733218.6 4057743.2    60.5     3.40     4.00
3.16     NO                    NO
 L0001883         0   0.15232E-03  733218.4 4057751.8    60.5     3.40     4.00
3.16     NO                    NO
 L0001884         0   0.15232E-03  733218.3 4057760.4    60.5     3.40     4.00
3.16     NO                    NO
 L0001885         0   0.15232E-03  733218.1 4057769.0    60.5     3.40     4.00
3.16     NO                    NO
 L0001886         0   0.15232E-03  733217.9 4057777.6    60.5     3.40     4.00
3.16     NO                    NO
 L0001887         0   0.15232E-03  733217.8 4057786.2    60.5     3.40     4.00
3.16     NO                    NO
 L0001888         0   0.15232E-03  733217.6 4057794.8    60.5     3.40     4.00
3.16     NO                    NO
 L0001889         0   0.15232E-03  733217.4 4057803.4    60.5     3.40     4.00
3.16     NO                    NO
 L0001890         0   0.15232E-03  733217.3 4057812.0    60.5     3.40     4.00
3.16     NO                    NO
 L0001891         0   0.15232E-03  733217.1 4057820.6    60.5     3.40     4.00
3.16     NO                    NO
 L0001892         0   0.15232E-03  733216.9 4057829.1    60.5     3.40     4.00
3.16     NO                    NO
 L0001893         0   0.15232E-03  733216.8 4057837.7    60.5     3.40     4.00
3.16     NO                    NO
 L0001894         0   0.15232E-03  733216.6 4057846.3    60.4     3.40     4.00
3.16     NO                    NO
 L0001895         0   0.15232E-03  733216.4 4057854.9    60.4     3.40     4.00
3.16     NO                    NO
 L0001896         0   0.15232E-03  733216.3 4057863.5    60.4     3.40     4.00
3.16     NO                    NO
 L0001897         0   0.15232E-03  733216.1 4057872.1    60.4     3.40     4.00
3.16     NO                    NO
 L0001898         0   0.15232E-03  733215.9 4057880.7    60.4     3.40     4.00
3.16     NO                    NO
 L0001899         0   0.15232E-03  733215.8 4057889.3    60.4     3.40     4.00
3.16     NO                    NO
 L0001900         0   0.15232E-03  733215.6 4057897.9    60.4     3.40     4.00
3.16     NO                    NO
 L0001901         0   0.15232E-03  733215.4 4057906.5    60.4     3.40     4.00
3.16     NO                    NO
 L0001902         0   0.15232E-03  733215.3 4057915.1    60.4     3.40     4.00
3.16     NO                    NO
 L0001903         0   0.15232E-03  733215.1 4057923.7    60.4     3.40     4.00
3.16     NO                    NO
 L0001904         0   0.15232E-03  733214.9 4057932.3    60.4     3.40     4.00
3.16     NO                    NO
 L0001905         0   0.15232E-03  733214.8 4057940.9    60.4     3.40     4.00
3.16     NO                    NO
 L0001906         0   0.15232E-03  733214.6 4057949.5    60.4     3.40     4.00
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3.16   NO   NO
 L0001907   0   0.15232E-03 733214.4 4057958.1   60.4   3.40   4.00
3.16   NO   NO
 L0001908   0   0.15232E-03 733214.3 4057966.7   60.4   3.40   4.00
3.16   NO   NO
 L0001909   0   0.15232E-03 733214.1 4057975.3   60.4   3.40   4.00
3.16   NO   NO
 L0001910   0   0.15232E-03 733213.9 4057983.9   60.4   3.40   4.00
3.16   NO   NO
 L0001911   0   0.15232E-03 733213.8 4057992.5   60.4   3.40   4.00
3.16   NO   NO
 L0001912   0   0.15232E-03 733213.6 4058001.1   60.4   3.40   4.00
3.16   NO   NO
 L0001913   0   0.15232E-03 733213.4 4058009.7   60.4   3.40   4.00
3.16   NO   NO
 L0001914   0   0.15232E-03 733213.3 4058018.3   60.4   3.40   4.00
3.16   NO   NO
 L0001915   0   0.15232E-03 733213.1 4058026.9   60.3   3.40   4.00
3.16   NO   NO
 L0001916   0   0.15232E-03 733212.9 4058035.5   60.3   3.40   4.00
3.16   NO   NO
 L0001917   0   0.15232E-03 733212.8 4058044.1   60.3   3.40   4.00
3.16   NO   NO
 L0001918   0   0.15232E-03 733212.6 4058052.7   60.3   3.40   4.00
3.16   NO   NO
 L0001919   0   0.15232E-03 733212.5 4058061.3   60.3   3.40   4.00
3.16   NO   NO
 L0001920   0   0.15232E-03 733212.3 4058069.9   60.3   3.40   4.00
3.16   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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 L0001921   0   0.15232E-03 733212.1 4058078.5   60.3   3.40   4.00

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3.16     NO                    NO
 L0001922         0   0.15232E-03  733212.0 4058087.1    60.3     3.40     4.00
3.16     NO                    NO
 L0001923         0   0.15232E-03  733211.8 4058095.7    60.3     3.40     4.00
3.16     NO                    NO
 L0001924         0   0.15232E-03  733211.6 4058104.3    60.3     3.40     4.00
3.16     NO                    NO
 L0001925         0   0.15232E-03  733211.5 4058112.9    60.3     3.40     4.00
3.16     NO                    NO
 L0001926         0   0.15232E-03  733211.3 4058121.5    60.3     3.40     4.00
3.16     NO                    NO
 L0001927         0   0.15232E-03  733211.1 4058130.1    60.3     3.40     4.00
3.16     NO                    NO
 L0001928         0   0.15232E-03  733211.0 4058138.7    60.3     3.40     4.00
3.16     NO                    NO
 L0001929         0   0.15232E-03  733210.8 4058147.3    60.3     3.40     4.00
3.16     NO                    NO
 L0001930         0   0.15232E-03  733210.6 4058155.9    60.3     3.40     4.00
3.16     NO                    NO
 L0001931         0   0.15232E-03  733210.5 4058164.5    60.3     3.40     4.00
3.16     NO                    NO
 L0001932         0   0.15232E-03  733210.3 4058173.1    60.3     3.40     4.00
3.16     NO                    NO
 L0001933         0   0.15232E-03  733210.1 4058181.7    60.3     3.40     4.00
3.16     NO                    NO
 L0001934         0   0.15232E-03  733210.0 4058190.3    60.3     3.40     4.00
3.16     NO                    NO
 L0001935         0   0.15232E-03  733209.8 4058198.9    60.3     3.40     4.00
3.16     NO                    NO
 L0001936         0   0.15232E-03  733209.6 4058207.5    60.3     3.40     4.00
3.16     NO                    NO
 L0001937         0   0.15232E-03  733209.5 4058216.1    60.3     3.40     4.00
3.16     NO                    NO
 L0001938         0   0.15232E-03  733209.3 4058224.7    60.3     3.40     4.00
3.16     NO                    NO
 L0001939         0   0.15232E-03  733209.1 4058233.3    60.3     3.40     4.00
3.16     NO                    NO
 L0001940         0   0.15232E-03  733209.0 4058241.9    60.3     3.40     4.00
3.16     NO                    NO
 L0001941         0   0.15232E-03  733208.8 4058250.5    60.3     3.40     4.00
3.16     NO                    NO
 L0001942         0   0.15232E-03  733208.6 4058259.1    60.3     3.40     4.00
3.16     NO                    NO
 L0001943         0   0.15232E-03  733208.5 4058267.7    60.3     3.40     4.00
3.16     NO                    NO
 L0001944         0   0.15232E-03  733208.3 4058276.3    60.3     3.40     4.00
3.16     NO                    NO
 L0001945         0   0.15232E-03  733208.1 4058284.9    60.2     3.40     4.00
3.16     NO                    NO
 L0001946         0   0.15232E-03  733208.0 4058293.5    60.2     3.40     4.00
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3.16     NO                     NO
 L0001947         0   0.15232E-03  733207.8 4058302.1    60.2     3.40     4.00
3.16     NO                     NO
 L0001948         0   0.15232E-03  733207.6 4058310.7    60.2     3.40     4.00
3.16     NO                     NO
 L0001949         0   0.15232E-03  733207.5 4058319.3    60.2     3.40     4.00
3.16     NO                     NO
 L0001950         0   0.15232E-03  733207.3 4058327.9    60.2     3.40     4.00
3.16     NO                     NO
 L0001951         0   0.15232E-03  733207.1 4058336.5    60.2     3.40     4.00
3.16     NO                     NO
 L0001952         0   0.15232E-03  733207.0 4058345.1    60.2     3.40     4.00
3.16     NO                     NO
 L0001953         0   0.15232E-03  733206.8 4058353.7    60.2     3.40     4.00
3.16     NO                     NO
 L0001954         0   0.15232E-03  733206.6 4058362.2    60.2     3.40     4.00
3.16     NO                     NO
 L0001955         0   0.15232E-03  733206.5 4058370.8    60.2     3.40     4.00
3.16     NO                     NO
 L0001956         0   0.15232E-03  733206.3 4058379.4    60.2     3.40     4.00
3.16     NO                     NO
 L0001957         0   0.15232E-03  733206.1 4058388.0    60.2     3.40     4.00
3.16     NO                     NO
 L0001958         0   0.15232E-03  733206.0 4058396.6    60.2     3.40     4.00
3.16     NO                     NO
 L0001959         0   0.15232E-03  733205.8 4058405.2    60.2     3.40     4.00
3.16     NO                     NO
 L0001960         0   0.15232E-03  733205.6 4058413.8    60.2     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  51
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0001961         0   0.15232E-03  733205.5 4058422.4    60.2     3.40     4.00
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3.16     NO                    NO
 L0001962         0   0.15232E-03  733205.3 4058431.0    60.2     3.40     4.00
3.16     NO                    NO
 L0001963         0   0.15232E-03  733205.2 4058439.6    60.2     3.40     4.00
3.16     NO                    NO
 L0001964         0   0.15232E-03  733205.0 4058448.2    60.2     3.40     4.00
3.16     NO                    NO
 L0001965         0   0.15232E-03  733204.8 4058456.8    60.2     3.40     4.00
3.16     NO                    NO
 L0001966         0   0.15232E-03  733204.7 4058465.4    60.2     3.40     4.00
3.16     NO                    NO
 L0001967         0   0.15232E-03  733204.5 4058474.0    60.1     3.40     4.00
3.16     NO                    NO
 L0001968         0   0.15232E-03  733204.3 4058482.6    60.1     3.40     4.00
3.16     NO                    NO
 L0001969         0   0.15232E-03  733204.2 4058491.2    60.1     3.40     4.00
3.16     NO                    NO
 L0001970         0   0.15232E-03  733204.0 4058499.8    60.1     3.40     4.00
3.16     NO                    NO
 L0001971         0   0.15232E-03  733203.8 4058508.4    60.1     3.40     4.00
3.16     NO                    NO
 L0001972         0   0.15232E-03  733203.7 4058517.0    60.1     3.40     4.00
3.16     NO                    NO
 L0001973         0   0.15232E-03  733203.5 4058525.6    60.1     3.40     4.00
3.16     NO                    NO
 L0001974         0   0.15232E-03  733203.3 4058534.2    60.1     3.40     4.00
3.16     NO                    NO
 L0001975         0   0.15232E-03  733203.2 4058542.8    60.1     3.40     4.00
3.16     NO                    NO
 L0001976         0   0.15232E-03  733203.0 4058551.4    60.1     3.40     4.00
3.16     NO                    NO
 L0001977         0   0.15232E-03  733202.8 4058560.0    60.1     3.40     4.00
3.16     NO                    NO
 L0001978         0   0.15232E-03  733202.7 4058568.6    60.1     3.40     4.00
3.16     NO                    NO
 L0001979         0   0.15232E-03  733202.5 4058577.2    60.1     3.40     4.00
3.16     NO                    NO
 L0001980         0   0.15232E-03  733202.3 4058585.8    60.1     3.40     4.00
3.16     NO                    NO
 L0001981         0   0.15232E-03  733202.2 4058594.4    60.1     3.40     4.00
3.16     NO                    NO
 L0001982         0   0.15232E-03  733202.0 4058603.0    60.1     3.40     4.00
3.16     NO                    NO
 L0001983         0   0.15232E-03  733201.8 4058611.6    60.1     3.40     4.00
3.16     NO                    NO
 L0001984         0   0.15232E-03  733201.7 4058620.2    60.1     3.40     4.00
3.16     NO                    NO
 L0001985         0   0.15232E-03  733201.5 4058628.8    60.1     3.40     4.00
3.16     NO                    NO
 L0001986         0   0.15232E-03  733201.3 4058637.4    60.1     3.40     4.00
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3.16     NO                     NO
 L0001987         0   0.15232E-03  733201.2 4058646.0    60.1     3.40     4.00
3.16     NO                     NO
 L0001988         0   0.15232E-03  733201.0 4058654.6    60.1     3.40     4.00
3.16     NO                     NO
 L0001989         0   0.15232E-03  733200.8 4058663.2    60.0     3.40     4.00
3.16     NO                     NO
 L0001990         0   0.15232E-03  733200.7 4058671.8    60.0     3.40     4.00
3.16     NO                     NO
 L0001991         0   0.15232E-03  733200.5 4058680.4    60.0     3.40     4.00
3.16     NO                     NO
 L0001992         0   0.15232E-03  733200.3 4058689.0    60.0     3.40     4.00
3.16     NO                     NO
 L0001993         0   0.15232E-03  733200.2 4058697.6    60.0     3.40     4.00
3.16     NO                     NO
 L0001994         0   0.15232E-03  733200.0 4058706.2    60.0     3.40     4.00
3.16     NO                     NO
 L0001995         0   0.15232E-03  733199.8 4058714.8    60.0     3.40     4.00
3.16     NO                     NO
 L0001996         0   0.15232E-03  733199.7 4058723.4    60.0     3.40     4.00
3.16     NO                     NO
 L0001997         0   0.15232E-03  733199.5 4058732.0    60.0     3.40     4.00
3.16     NO                     NO
 L0001998         0   0.15232E-03  733199.3 4058740.6    60.0     3.40     4.00
3.16     NO                     NO
 L0001999         0   0.15232E-03  733199.2 4058749.2    60.0     3.40     4.00
3.16     NO                     NO
 L0002000         0   0.15232E-03  733199.0 4058757.8    60.0     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  52
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0002001         0   0.15232E-03  733198.8 4058766.4    59.9     3.40     4.00
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3.16	NO		NO					
L0002002		0	0.15232E-03	733198.7	4058775.0	59.9	3.40	4.00
3.16	NO		NO					
L0002003		0	0.15232E-03	733198.5	4058783.6	59.9	3.40	4.00
3.16	NO		NO					
L0002004		0	0.15232E-03	733198.3	4058792.2	59.9	3.40	4.00
3.16	NO		NO					
L0002005		0	0.15232E-03	733198.2	4058800.8	59.9	3.40	4.00
3.16	NO		NO					
L0002006		0	0.15232E-03	733198.0	4058809.4	59.9	3.40	4.00
3.16	NO		NO					
L0002007		0	0.15232E-03	733197.9	4058818.0	59.9	3.40	4.00
3.16	NO		NO					
L0002008		0	0.15232E-03	733197.7	4058826.6	59.9	3.40	4.00
3.16	NO		NO					
L0002009		0	0.15232E-03	733197.5	4058835.2	59.9	3.40	4.00
3.16	NO		NO					
L0002010		0	0.15232E-03	733197.4	4058843.8	59.9	3.40	4.00
3.16	NO		NO					
L0002011		0	0.15232E-03	733197.2	4058852.4	59.9	3.40	4.00
3.16	NO		NO					
L0002012		0	0.15232E-03	733197.0	4058861.0	59.9	3.40	4.00
3.16	NO		NO					
L0002013		0	0.15232E-03	733196.9	4058869.6	59.9	3.40	4.00
3.16	NO		NO					
L0002014		0	0.15232E-03	733196.7	4058878.2	59.9	3.40	4.00
3.16	NO		NO					
L0002015		0	0.15232E-03	733196.5	4058886.8	59.9	3.40	4.00
3.16	NO		NO					
L0002016		0	0.15232E-03	733196.4	4058895.4	59.8	3.40	4.00
3.16	NO		NO					
L0002017		0	0.15232E-03	733196.2	4058903.9	59.8	3.40	4.00
3.16	NO		NO					
L0002018		0	0.15232E-03	733196.0	4058912.5	59.8	3.40	4.00
3.16	NO		NO					
L0002019		0	0.15232E-03	733195.9	4058921.1	59.8	3.40	4.00
3.16	NO		NO					
L0002020		0	0.15232E-03	733195.7	4058929.7	59.8	3.40	4.00
3.16	NO		NO					
L0002021		0	0.15232E-03	733195.5	4058938.3	59.8	3.40	4.00
3.16	NO		NO					
L0002022		0	0.15232E-03	733195.4	4058946.9	59.8	3.40	4.00
3.16	NO		NO					
L0002023		0	0.15232E-03	733195.2	4058955.5	59.8	3.40	4.00
3.16	NO		NO					
L0002024		0	0.15232E-03	733195.0	4058964.1	59.8	3.40	4.00
3.16	NO		NO					
L0002025		0	0.15232E-03	733194.9	4058972.7	59.8	3.40	4.00
3.16	NO		NO					
L0002026		0	0.15232E-03	733194.7	4058981.3	59.8	3.40	4.00

3.16   NO   NO
 L0002027   0   0.15232E-03 733194.5 4058989.9   59.8   3.40   4.00
3.16   NO   NO
 L0002028   0   0.15232E-03 733194.4 4058998.5   59.8   3.40   4.00
3.16   NO   NO
 L0002029   0   0.15232E-03 733194.2 4059007.1   59.8   3.40   4.00
3.16   NO   NO
 L0002030   0   0.15232E-03 733194.0 4059015.7   59.8   3.40   4.00
3.16   NO   NO
 L0002031   0   0.15232E-03 733193.9 4059024.3   59.8   3.40   4.00
3.16   NO   NO
 L0002032   0   0.15232E-03 733193.7 4059032.9   59.8   3.40   4.00
3.16   NO   NO
 L0002033   0   0.15232E-03 733193.5 4059041.5   59.8   3.40   4.00
3.16   NO   NO
 L0002034   0   0.15232E-03 733193.4 4059050.1   59.7   3.40   4.00
3.16   NO   NO
 L0002035   0   0.15232E-03 733193.2 4059058.7   59.7   3.40   4.00
3.16   NO   NO
 L0002036   0   0.15232E-03 733193.0 4059067.3   59.7   3.40   4.00
3.16   NO   NO
 L0002037   0   0.15232E-03 733192.9 4059075.9   59.7   3.40   4.00
3.16   NO   NO
 L0002038   0   0.15232E-03 733192.7 4059084.5   59.7   3.40   4.00
3.16   NO   NO
 L0002039   0   0.15232E-03 733192.5 4059093.1   59.7   3.40   4.00
3.16   NO   NO
 L0002040   0   0.15232E-03 733192.4 4059101.7   59.7   3.40   4.00
3.16   NO   NO

                                                    *** VOLUME SOURCE DATA ***

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

 L0002041   0   0.15232E-03 733192.2 4059110.3   59.7   3.40   4.00

3.16 NO NO
L0002042 0 0.15232E-03 733192.0 4059118.9 59.7 3.40 4.00
3.16 NO NO
L0002043 0 0.15232E-03 733191.9 4059127.5 59.7 3.40 4.00
3.16 NO NO
L0002044 0 0.15232E-03 733191.7 4059136.1 59.7 3.40 4.00
3.16 NO NO
L0002045 0 0.15232E-03 733191.5 4059144.7 59.7 3.40 4.00
3.16 NO NO
L0002046 0 0.15232E-03 733191.4 4059153.3 59.7 3.40 4.00
3.16 NO NO
L0002047 0 0.15232E-03 733191.2 4059161.9 59.7 3.40 4.00
3.16 NO NO
L0002048 0 0.15232E-03 733191.1 4059170.5 59.7 3.40 4.00
3.16 NO NO
L0002049 0 0.15232E-03 733190.9 4059179.1 59.7 3.40 4.00
3.16 NO NO
L0002050 0 0.15232E-03 733190.7 4059187.7 59.6 3.40 4.00
3.16 NO NO
L0002051 0 0.15232E-03 733190.6 4059196.3 59.6 3.40 4.00
3.16 NO NO
L0002052 0 0.15232E-03 733190.4 4059204.9 59.6 3.40 4.00
3.16 NO NO
L0002053 0 0.15232E-03 733190.2 4059213.5 59.6 3.40 4.00
3.16 NO NO
L0002054 0 0.15232E-03 733190.1 4059222.1 59.6 3.40 4.00
3.16 NO NO
L0002055 0 0.15232E-03 733189.9 4059230.7 59.6 3.40 4.00
3.16 NO NO
L0002056 0 0.15232E-03 733189.7 4059239.3 59.6 3.40 4.00
3.16 NO NO
L0002057 0 0.15232E-03 733189.6 4059247.9 59.6 3.40 4.00
3.16 NO NO
L0002058 0 0.15232E-03 733189.4 4059256.5 59.6 3.40 4.00
3.16 NO NO
L0002059 0 0.15232E-03 733189.2 4059265.1 59.6 3.40 4.00
3.16 NO NO
L0002060 0 0.15232E-03 733189.1 4059273.7 59.6 3.40 4.00
3.16 NO NO
L0002061 0 0.15232E-03 733188.9 4059282.3 59.6 3.40 4.00
3.16 NO NO
L0002062 0 0.15232E-03 733188.7 4059290.9 59.6 3.40 4.00
3.16 NO NO
L0002063 0 0.15232E-03 733188.6 4059299.5 59.6 3.40 4.00
3.16 NO NO
L0002064 0 0.15232E-03 733188.4 4059308.1 59.6 3.40 4.00
3.16 NO NO
L0002065 0 0.15232E-03 733188.2 4059316.7 59.6 3.40 4.00
3.16 NO NO
L0002066 0 0.15232E-03 733188.1 4059325.3 59.6 3.40 4.00

3.16 NO NO
L0002067 0 0.15232E-03 733187.9 4059333.9 59.6 3.40 4.00
3.16 NO NO
L0002068 0 0.15232E-03 733187.7 4059342.5 59.6 3.40 4.00
3.16 NO NO
L0002069 0 0.15232E-03 733187.6 4059351.1 59.6 3.40 4.00
3.16 NO NO
L0002070 0 0.15232E-03 733187.4 4059359.7 59.6 3.40 4.00
3.16 NO NO
L0002071 0 0.15232E-03 733187.2 4059368.3 59.6 3.40 4.00
3.16 NO NO
L0002072 0 0.15232E-03 733187.1 4059376.9 59.6 3.40 4.00
3.16 NO NO
L0002073 0 0.15232E-03 733186.9 4059385.5 59.6 3.40 4.00
3.16 NO NO
L0002074 0 0.15232E-03 733186.7 4059394.1 59.6 3.40 4.00
3.16 NO NO
L0002075 0 0.15232E-03 733186.6 4059402.7 59.6 3.40 4.00
3.16 NO NO
L0002076 0 0.15232E-03 733186.4 4059411.3 59.6 3.40 4.00
3.16 NO NO
L0002077 0 0.15232E-03 733186.2 4059419.9 59.6 3.40 4.00
3.16 NO NO
L0002078 0 0.15232E-03 733186.1 4059428.5 59.6 3.40 4.00
3.16 NO NO
L0002079 0 0.15232E-03 733185.9 4059437.0 59.6 3.40 4.00
3.16 NO NO
L0002080 0 0.15232E-03 733185.7 4059445.6 59.6 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY	AIRCRAFT
L0002081	0	0.15232E-03	733185.6	4059454.2	59.5	3.40	4.00				

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3.16     NO                    NO
 L0002082         0   0.15232E-03  733185.4 4059462.8    59.5     3.40     4.00
3.16     NO                    NO
 L0002083         0   0.15232E-03  733185.2 4059471.4    59.5     3.40     4.00
3.16     NO                    NO
 L0002084         0   0.15232E-03  733185.1 4059480.0    59.5     3.40     4.00
3.16     NO                    NO
 L0002085         0   0.15232E-03  733184.9 4059488.6    59.5     3.40     4.00
3.16     NO                    NO
 L0002086         0   0.15232E-03  733184.7 4059497.2    59.5     3.40     4.00
3.16     NO                    NO
 L0002087         0   0.15232E-03  733184.6 4059505.8    59.5     3.40     4.00
3.16     NO                    NO
 L0002088         0   0.15232E-03  733184.4 4059514.4    59.5     3.40     4.00
3.16     NO                    NO
 L0002089         0   0.15232E-03  733184.2 4059523.0    59.5     3.40     4.00
3.16     NO                    NO
 L0002090         0   0.15232E-03  733184.1 4059531.6    59.5     3.40     4.00
3.16     NO                    NO
 L0002091         0   0.15232E-03  733183.9 4059540.2    59.5     3.40     4.00
3.16     NO                    NO
 L0002092         0   0.15232E-03  733183.8 4059548.8    59.5     3.40     4.00
3.16     NO                    NO
 L0002093         0   0.15232E-03  733183.6 4059557.4    59.5     3.40     4.00
3.16     NO                    NO
 L0002094         0   0.15232E-03  733183.4 4059566.0    59.5     3.40     4.00
3.16     NO                    NO
 L0002095         0   0.15232E-03  733183.3 4059574.6    59.5     3.40     4.00
3.16     NO                    NO
 L0002096         0   0.15232E-03  733183.1 4059583.2    59.5     3.40     4.00
3.16     NO                    NO
 L0002097         0   0.15232E-03  733182.9 4059591.8    59.5     3.40     4.00
3.16     NO                    NO
 L0002098         0   0.15232E-03  733182.8 4059600.4    59.5     3.40     4.00
3.16     NO                    NO
 L0002099         0   0.15232E-03  733182.6 4059609.0    59.5     3.40     4.00
3.16     NO                    NO
 L0002100         0   0.15232E-03  733182.4 4059617.6    59.5     3.40     4.00
3.16     NO                    NO
 L0002101         0   0.15232E-03  733182.3 4059626.2    59.5     3.40     4.00
3.16     NO                    NO
 L0002102         0   0.15232E-03  733182.1 4059634.8    59.5     3.40     4.00
3.16     NO                    NO
 L0002103         0   0.15232E-03  733181.9 4059643.4    59.5     3.40     4.00
3.16     NO                    NO
 L0002104         0   0.15232E-03  733181.8 4059652.0    59.5     3.40     4.00
3.16     NO                    NO
 L0002105         0   0.15232E-03  733181.6 4059660.6    59.5     3.40     4.00
3.16     NO                    NO
 L0002106         0   0.15232E-03  733181.4 4059669.2    59.5     3.40     4.00
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3.16     NO                     NO
 L0002107         0   0.15232E-03  733181.3 4059677.8    59.5     3.40     4.00
3.16     NO                     NO
 L0002108         0   0.15232E-03  733181.1 4059686.4    59.5     3.40     4.00
3.16     NO                     NO
 L0002109         0   0.15232E-03  733180.9 4059695.0    59.5     3.40     4.00
3.16     NO                     NO
 L0002110         0   0.15232E-03  733180.8 4059703.6    59.5     3.40     4.00
3.16     NO                     NO
 L0002111         0   0.15232E-03  733180.6 4059712.2    59.5     3.40     4.00
3.16     NO                     NO
 L0002112         0   0.15232E-03  733180.4 4059720.8    59.5     3.40     4.00
3.16     NO                     NO
 L0002113         0   0.15232E-03  733180.3 4059729.4    59.5     3.40     4.00
3.16     NO                     NO
 L0002114         0   0.15232E-03  733180.1 4059738.0    59.5     3.40     4.00
3.16     NO                     NO
 L0002115         0   0.15232E-03  733179.9 4059746.6    59.5     3.40     4.00
3.16     NO                     NO
 L0002116         0   0.15232E-03  733179.8 4059755.2    59.5     3.40     4.00
3.16     NO                     NO
 L0002117         0   0.15232E-03  733179.6 4059763.8    59.5     3.40     4.00
3.16     NO                     NO
 L0002118         0   0.15232E-03  733179.4 4059772.4    59.5     3.40     4.00
3.16     NO                     NO
 L0002119         0   0.15232E-03  733179.3 4059781.0    59.5     3.40     4.00
3.16     NO                     NO
 L0002120         0   0.15232E-03  733179.1 4059789.6    59.5     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  55
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0002121         0   0.15232E-03  733178.9 4059798.2    59.5     3.40     4.00
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3.16     NO                    NO
 L0002122         0   0.15232E-03  733178.8 4059806.8    59.5     3.40     4.00
3.16     NO                    NO
 L0002123         0   0.15232E-03  733178.6 4059815.4    59.5     3.40     4.00
3.16     NO                    NO
 L0002124         0   0.15232E-03  733178.4 4059824.0    59.5     3.40     4.00
3.16     NO                    NO
 L0002125         0   0.15232E-03  733178.3 4059832.6    59.5     3.40     4.00
3.16     NO                    NO
 L0002126         0   0.15232E-03  733178.1 4059841.2    59.5     3.40     4.00
3.16     NO                    NO
 L0002127         0   0.15232E-03  733177.9 4059849.8    59.5     3.40     4.00
3.16     NO                    NO
 L0002128         0   0.15232E-03  733177.8 4059858.4    59.5     3.40     4.00
3.16     NO                    NO
 L0002129         0   0.15232E-03  733177.6 4059867.0    59.5     3.40     4.00
3.16     NO                    NO
 L0002130         0   0.15232E-03  733177.4 4059875.6    59.5     3.40     4.00
3.16     NO                    NO
 L0002131         0   0.15232E-03  733177.3 4059884.2    59.5     3.40     4.00
3.16     NO                    NO
 L0002132         0   0.15232E-03  733177.1 4059892.8    59.5     3.40     4.00
3.16     NO                    NO
 L0002133         0   0.15232E-03  733177.0 4059901.4    59.5     3.40     4.00
3.16     NO                    NO
 L0002134         0   0.15232E-03  733176.8 4059910.0    59.5     3.40     4.00
3.16     NO                    NO
 L0002135         0   0.15232E-03  733176.6 4059918.6    59.5     3.40     4.00
3.16     NO                    NO
 L0002136         0   0.15232E-03  733176.5 4059927.2    59.5     3.40     4.00
3.16     NO                    NO
 L0002137         0   0.15232E-03  733176.3 4059935.8    59.5     3.40     4.00
3.16     NO                    NO
 L0002138         0   0.15232E-03  733176.1 4059944.4    59.5     3.40     4.00
3.16     NO                    NO
 L0002139         0   0.15232E-03  733176.0 4059953.0    59.5     3.40     4.00
3.16     NO                    NO
 L0002140         0   0.15232E-03  733175.8 4059961.6    59.5     3.40     4.00
3.16     NO                    NO
 L0002141         0   0.15232E-03  733175.6 4059970.2    59.5     3.40     4.00
3.16     NO                    NO
 L0002142         0   0.15232E-03  733175.5 4059978.7    59.5     3.40     4.00
3.16     NO                    NO
 L0002143         0   0.15232E-03  733175.3 4059987.3    59.5     3.40     4.00
3.16     NO                    NO
 L0002144         0   0.15232E-03  733175.1 4059995.9    59.5     3.40     4.00
3.16     NO                    NO
 L0002145         0   0.15232E-03  733175.0 4060004.5    59.5     3.40     4.00
3.16     NO                    NO
 L0002146         0   0.15232E-03  733174.8 4060013.1    59.5     3.40     4.00
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3.16     NO                     NO
 L0002147         0   0.15232E-03  733174.6 4060021.7    59.5     3.40     4.00
3.16     NO                     NO
 L0002148         0   0.15232E-03  733174.5 4060030.3    59.5     3.40     4.00
3.16     NO                     NO
 L0002149         0   0.15232E-03  733174.3 4060038.9    59.5     3.40     4.00
3.16     NO                     NO
 L0002150         0   0.15232E-03  733174.1 4060047.5    59.5     3.40     4.00
3.16     NO                     NO
 L0002151         0   0.15232E-03  733174.0 4060056.1    59.5     3.40     4.00
3.16     NO                     NO
 L0002152         0   0.15232E-03  733173.8 4060064.7    59.5     3.40     4.00
3.16     NO                     NO
 L0002153         0   0.15232E-03  733173.6 4060073.3    59.5     3.40     4.00
3.16     NO                     NO
 L0002154         0   0.15232E-03  733173.5 4060081.9    59.5     3.40     4.00
3.16     NO                     NO
 L0002155         0   0.15232E-03  733173.3 4060090.5    59.5     3.40     4.00
3.16     NO                     NO
 L0002156         0   0.15232E-03  733173.1 4060099.1    59.5     3.40     4.00
3.16     NO                     NO
 L0002157         0   0.15232E-03  733173.0 4060107.7    59.5     3.40     4.00
3.16     NO                     NO
 L0002158         0   0.15232E-03  733172.8 4060116.3    59.5     3.40     4.00
3.16     NO                     NO
 L0002159         0   0.15232E-03  733172.6 4060124.9    59.5     3.40     4.00
3.16     NO                     NO
 L0002160         0   0.15232E-03  733172.5 4060133.5    59.5     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  56
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0002161         0   0.15232E-03  733172.3 4060142.1    59.5     3.40     4.00
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3.16     NO                    NO
 L0002162         0   0.15232E-03  733172.1 4060150.7    59.5     3.40     4.00
3.16     NO                    NO
 L0002163         0   0.15232E-03  733172.0 4060159.3    59.5     3.40     4.00
3.16     NO                    NO
 L0002164         0   0.15232E-03  733171.8 4060167.9    59.5     3.40     4.00
3.16     NO                    NO
 L0002165         0   0.15232E-03  733171.6 4060176.5    59.5     3.40     4.00
3.16     NO                    NO
 L0002166         0   0.15232E-03  733171.5 4060185.1    59.5     3.40     4.00
3.16     NO                    NO
 L0002167         0   0.15232E-03  733171.3 4060193.7    59.5     3.40     4.00
3.16     NO                    NO
 L0002168         0   0.15232E-03  733171.1 4060202.3    59.5     3.40     4.00
3.16     NO                    NO
 L0002169         0   0.15232E-03  733171.0 4060210.9    59.5     3.40     4.00
3.16     NO                    NO
 L0002170         0   0.15232E-03  733169.1 4060217.7    59.5     3.40     4.00
3.16     NO                    NO
 L0002171         0   0.15232E-03  733160.5 4060217.4    59.5     3.40     4.00
3.16     NO                    NO
 L0002172         0   0.15232E-03  733151.9 4060217.1    59.5     3.40     4.00
3.16     NO                    NO
 L0002173         0   0.15232E-03  733143.3 4060216.9    59.6     3.40     4.00
3.16     NO                    NO
 L0002174         0   0.15232E-03  733134.7 4060216.6    59.6     3.40     4.00
3.16     NO                    NO
 L0002175         0   0.15232E-03  733126.1 4060216.3    59.6     3.40     4.00
3.16     NO                    NO
 L0002176         0   0.15232E-03  733117.5 4060216.1    59.7     3.40     4.00
3.16     NO                    NO
 L0002177         0   0.15232E-03  733108.9 4060215.8    59.7     3.40     4.00
3.16     NO                    NO
 L0002178         0   0.15232E-03  733100.3 4060215.5    59.7     3.40     4.00
3.16     NO                    NO
 L0002179         0   0.15232E-03  733091.7 4060215.3    59.7     3.40     4.00
3.16     NO                    NO
 L0002180         0   0.15232E-03  733083.1 4060215.0    59.7     3.40     4.00
3.16     NO                    NO
 L0002181         0   0.15232E-03  733074.5 4060214.7    59.8     3.40     4.00
3.16     NO                    NO
 L0002182         0   0.15232E-03  733065.9 4060214.5    59.8     3.40     4.00
3.16     NO                    NO
 L0002183         0   0.15232E-03  733057.3 4060214.2    59.8     3.40     4.00
3.16     NO                    NO
 L0002184         0   0.15232E-03  733048.7 4060213.9    59.8     3.40     4.00
3.16     NO                    NO
 L0002185         0   0.15232E-03  733040.1 4060213.7    59.8     3.40     4.00
3.16     NO                    NO
 L0002186         0   0.15232E-03  733031.5 4060213.4    59.8     3.40     4.00
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3.16   NO   NO
 L0002187   0   0.15232E-03 733022.9 4060213.1   59.8   3.40   4.00
3.16   NO   NO
 L0002188   0   0.15232E-03 733014.3 4060212.9   59.8   3.40   4.00
3.16   NO   NO
 L0002189   0   0.15232E-03 733005.7 4060212.6   59.8   3.40   4.00
3.16   NO   NO
 L0002190   0   0.15232E-03 732997.1 4060212.3   59.9   3.40   4.00
3.16   NO   NO
 L0002191   0   0.15232E-03 732988.6 4060212.1   59.9   3.40   4.00
3.16   NO   NO
 L0002192   0   0.15232E-03 732980.0 4060211.8   59.9   3.40   4.00
3.16   NO   NO
 L0002193   0   0.15232E-03 732971.4 4060211.5   59.9   3.40   4.00
3.16   NO   NO
 L0002194   0   0.15232E-03 732962.8 4060211.3   59.9   3.40   4.00
3.16   NO   NO
 L0002195   0   0.15232E-03 732954.2 4060211.0   59.9   3.40   4.00
3.16   NO   NO
 L0002196   0   0.15232E-03 732945.6 4060210.7   60.0   3.40   4.00
3.16   NO   NO
 L0002197   0   0.15232E-03 732937.0 4060210.5   60.0   3.40   4.00
3.16   NO   NO
 L0002198   0   0.15232E-03 732928.4 4060210.2   60.0   3.40   4.00
3.16   NO   NO
 L0002199   0   0.15232E-03 732919.8 4060209.9   60.0   3.40   4.00
3.16   NO   NO
 L0002200   0   0.15232E-03 732911.2 4060209.6   60.0   3.40   4.00
3.16   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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 L0002201   0   0.15232E-03 732902.6 4060209.4   60.0   3.40   4.00

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3.16     NO                    NO
 L0002202         0   0.15232E-03  732894.0 4060209.1    60.1     3.40     4.00
3.16     NO                    NO
 L0002203         0   0.15232E-03  732885.4 4060208.8    60.1     3.40     4.00
3.16     NO                    NO
 L0002204         0   0.15232E-03  732876.8 4060208.6    60.1     3.40     4.00
3.16     NO                    NO
 L0002205         0   0.15232E-03  732868.2 4060208.3    60.1     3.40     4.00
3.16     NO                    NO
 L0002206         0   0.15232E-03  732859.6 4060208.0    60.1     3.40     4.00
3.16     NO                    NO
 L0002207         0   0.15232E-03  732851.0 4060207.8    60.1     3.40     4.00
3.16     NO                    NO
 L0002208         0   0.15232E-03  732842.4 4060207.5    60.1     3.40     4.00
3.16     NO                    NO
 L0002209         0   0.15232E-03  732833.8 4060207.2    60.1     3.40     4.00
3.16     NO                    NO
 L0002210         0   0.15232E-03  732825.2 4060207.0    60.2     3.40     4.00
3.16     NO                    NO
 L0002211         0   0.15232E-03  732816.6 4060206.7    60.2     3.40     4.00
3.16     NO                    NO
 L0002212         0   0.15232E-03  732808.0 4060206.4    60.2     3.40     4.00
3.16     NO                    NO
 L0002213         0   0.15232E-03  732799.4 4060206.2    60.2     3.40     4.00
3.16     NO                    NO
 L0002214         0   0.15232E-03  732790.8 4060205.9    60.2     3.40     4.00
3.16     NO                    NO
 L0002215         0   0.15232E-03  732782.3 4060205.6    60.3     3.40     4.00
3.16     NO                    NO
 L0002216         0   0.15232E-03  732773.7 4060205.4    60.3     3.40     4.00
3.16     NO                    NO
 L0002217         0   0.15232E-03  732765.1 4060205.1    60.3     3.40     4.00
3.16     NO                    NO
 L0002218         0   0.15232E-03  732756.5 4060204.8    60.4     3.40     4.00
3.16     NO                    NO
 L0002219         0   0.15232E-03  732747.9 4060204.6    60.4     3.40     4.00
3.16     NO                    NO
 L0002220         0   0.15232E-03  732739.3 4060204.3    60.4     3.40     4.00
3.16     NO                    NO
 L0002221         0   0.15232E-03  732730.7 4060204.0    60.4     3.40     4.00
3.16     NO                    NO
 L0002222         0   0.15232E-03  732722.1 4060203.8    60.5     3.40     4.00
3.16     NO                    NO
 L0002223         0   0.15232E-03  732713.5 4060203.5    60.5     3.40     4.00
3.16     NO                    NO
 L0002224         0   0.15232E-03  732704.9 4060203.2    60.5     3.40     4.00
3.16     NO                    NO
 L0002225         0   0.15232E-03  732696.3 4060203.0    60.6     3.40     4.00
3.16     NO                    NO
 L0002226         0   0.15232E-03  732687.7 4060202.7    60.6     3.40     4.00
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3.16     NO                     NO
 L0002227         0   0.15232E-03  732679.1 4060202.4    60.6     3.40     4.00
3.16     NO                     NO
 L0002228         0   0.15232E-03  732670.5 4060202.2    60.7     3.40     4.00
3.16     NO                     NO
 L0002229         0   0.15232E-03  732661.9 4060201.9    60.7     3.40     4.00
3.16     NO                     NO
 L0002230         0   0.15232E-03  732653.3 4060201.6    60.8     3.40     4.00
3.16     NO                     NO
 L0002231         0   0.15232E-03  732644.7 4060201.4    60.8     3.40     4.00
3.16     NO                     NO
 L0002232         0   0.15232E-03  732636.1 4060201.1    60.8     3.40     4.00
3.16     NO                     NO
 L0002233         0   0.15232E-03  732627.5 4060200.8    60.8     3.40     4.00
3.16     NO                     NO
 L0002234         0   0.15232E-03  732618.9 4060200.6    60.9     3.40     4.00
3.16     NO                     NO
 L0002235         0   0.15232E-03  732610.3 4060200.3    60.9     3.40     4.00
3.16     NO                     NO
 L0002236         0   0.15232E-03  732601.7 4060200.0    61.0     3.40     4.00
3.16     NO                     NO
 L0002237         0   0.15232E-03  732593.1 4060199.8    61.0     3.40     4.00
3.16     NO                     NO
 L0002238         0   0.15232E-03  732584.5 4060199.5    61.0     3.40     4.00
3.16     NO                     NO
 L0002239         0   0.15232E-03  732576.0 4060199.2    61.1     3.40     4.00
3.16     NO                     NO
 L0002240         0   0.15232E-03  732567.4 4060199.0    61.1     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0002241         0   0.15232E-03  732558.8 4060198.7    61.1     3.40     4.00
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3.16     NO                    NO
 L0002242         0   0.15232E-03  732550.2 4060198.4    61.1     3.40     4.00
3.16     NO                    NO
 L0002243         0   0.15232E-03  732541.6 4060198.2    61.1     3.40     4.00
3.16     NO                    NO
 L0002244         0   0.15232E-03  732533.0 4060197.9    61.1     3.40     4.00
3.16     NO                    NO
 L0002245         0   0.15232E-03  732524.4 4060197.6    61.2     3.40     4.00
3.16     NO                    NO
 L0002246         0   0.15232E-03  732515.8 4060197.4    61.2     3.40     4.00
3.16     NO                    NO
 L0002247         0   0.15232E-03  732507.2 4060197.1    61.2     3.40     4.00
3.16     NO                    NO
 L0002248         0   0.15232E-03  732498.6 4060196.8    61.3     3.40     4.00
3.16     NO                    NO
 L0002249         0   0.15232E-03  732490.0 4060196.6    61.3     3.40     4.00
3.16     NO                    NO
 L0002250         0   0.15232E-03  732481.4 4060196.3    61.3     3.40     4.00
3.16     NO                    NO
 L0002251         0   0.15232E-03  732472.8 4060196.0    61.4     3.40     4.00
3.16     NO                    NO
 L0002252         0   0.15232E-03  732464.2 4060195.8    61.4     3.40     4.00
3.16     NO                    NO
 L0002253         0   0.15232E-03  732455.6 4060195.5    61.4     3.40     4.00
3.16     NO                    NO
 L0002254         0   0.15232E-03  732447.0 4060195.2    61.5     3.40     4.00
3.16     NO                    NO
 L0002255         0   0.15232E-03  732438.4 4060195.0    61.5     3.40     4.00
3.16     NO                    NO
 L0002256         0   0.15232E-03  732429.8 4060194.7    61.5     3.40     4.00
3.16     NO                    NO
 L0002257         0   0.15232E-03  732421.2 4060194.4    61.5     3.40     4.00
3.16     NO                    NO
 L0002258         0   0.15232E-03  732412.6 4060194.2    61.5     3.40     4.00
3.16     NO                    NO
 L0002259         0   0.15232E-03  732404.0 4060193.9    61.5     3.40     4.00
3.16     NO                    NO
 L0002260         0   0.15232E-03  732395.4 4060193.6    61.6     3.40     4.00
3.16     NO                    NO
 L0002261         0   0.15232E-03  732386.8 4060193.3    61.6     3.40     4.00
3.16     NO                    NO
 L0002262         0   0.15232E-03  732378.2 4060193.1    61.6     3.40     4.00
3.16     NO                    NO
 L0002263         0   0.15232E-03  732369.7 4060192.8    61.7     3.40     4.00
3.16     NO                    NO
 L0002264         0   0.15232E-03  732361.1 4060192.5    61.7     3.40     4.00
3.16     NO                    NO
 L0002265         0   0.15232E-03  732352.5 4060192.3    61.8     3.40     4.00
3.16     NO                    NO
 L0002266         0   0.15232E-03  732343.9 4060192.0    61.8     3.40     4.00
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3.16     NO                     NO
 L0002267         0   0.15232E-03  732335.3 4060191.7    61.8     3.40     4.00
3.16     NO                     NO
 L0002268         0   0.15232E-03  732326.7 4060191.5    61.8     3.40     4.00
3.16     NO                     NO
 L0002269         0   0.15232E-03  732318.1 4060191.2    61.8     3.40     4.00
3.16     NO                     NO
 L0002270         0   0.15232E-03  732309.5 4060190.9    61.8     3.40     4.00
3.16     NO                     NO
 L0002271         0   0.15232E-03  732300.9 4060190.7    61.9     3.40     4.00
3.16     NO                     NO
 L0002272         0   0.15232E-03  732292.3 4060190.4    61.9     3.40     4.00
3.16     NO                     NO
 L0002273         0   0.15232E-03  732283.7 4060190.1    61.9     3.40     4.00
3.16     NO                     NO
 L0002274         0   0.15232E-03  732275.1 4060189.9    62.0     3.40     4.00
3.16     NO                     NO
 L0002275         0   0.15232E-03  732266.5 4060189.6    62.0     3.40     4.00
3.16     NO                     NO
 L0002276         0   0.15232E-03  732257.9 4060189.3    62.0     3.40     4.00
3.16     NO                     NO
 L0002277         0   0.15232E-03  732249.3 4060189.1    62.1     3.40     4.00
3.16     NO                     NO
 L0002278         0   0.15232E-03  732240.7 4060188.8    62.1     3.40     4.00
3.16     NO                     NO
 L0002279         0   0.15232E-03  732232.1 4060188.5    62.1     3.40     4.00
3.16     NO                     NO
 L0002280         0   0.15232E-03  732223.5 4060188.3    62.1     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  59
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0002281         0   0.15232E-03  732214.9 4060188.0    62.1     3.40     4.00
```

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3.16     NO                    NO
 L0002282         0   0.15232E-03  732206.3 4060187.7    62.2     3.40     4.00
3.16     NO                    NO
 L0002283         0   0.15232E-03  732197.7 4060187.5    62.2     3.40     4.00
3.16     NO                    NO
 L0002284         0   0.15232E-03  732189.1 4060187.2    62.2     3.40     4.00
3.16     NO                    NO
 L0002285         0   0.15232E-03  732180.5 4060186.9    62.2     3.40     4.00
3.16     NO                    NO
 L0002286         0   0.15232E-03  732171.9 4060186.7    62.3     3.40     4.00
3.16     NO                    NO
 L0002287         0   0.15232E-03  732163.4 4060186.4    62.3     3.40     4.00
3.16     NO                    NO
 L0002288         0   0.15232E-03  732154.8 4060186.1    62.4     3.40     4.00
3.16     NO                    NO
 L0002289         0   0.15232E-03  732146.2 4060185.9    62.4     3.40     4.00
3.16     NO                    NO
 L0002290         0   0.15232E-03  732137.6 4060185.6    62.4     3.40     4.00
3.16     NO                    NO
 L0002291         0   0.15232E-03  732129.0 4060185.3    62.4     3.40     4.00
3.16     NO                    NO
 L0002292         0   0.15232E-03  732120.4 4060185.1    62.5     3.40     4.00
3.16     NO                    NO
 L0002293         0   0.15232E-03  732111.8 4060184.8    62.5     3.40     4.00
3.16     NO                    NO
 L0002294         0   0.15232E-03  732103.2 4060184.5    62.5     3.40     4.00
3.16     NO                    NO
 L0002295         0   0.15232E-03  732094.6 4060184.3    62.5     3.40     4.00
3.16     NO                    NO
 L0002296         0   0.15232E-03  732086.0 4060184.0    62.5     3.40     4.00
3.16     NO                    NO
 L0002297         0   0.15232E-03  732077.4 4060183.7    62.6     3.40     4.00
3.16     NO                    NO
 L0002298         0   0.15232E-03  732068.8 4060183.5    62.6     3.40     4.00
3.16     NO                    NO
 L0002299         0   0.15232E-03  732060.2 4060183.2    62.6     3.40     4.00
3.16     NO                    NO
 L0002300         0   0.15232E-03  732051.6 4060182.9    62.7     3.40     4.00
3.16     NO                    NO
 L0002301         0   0.15232E-03  732043.0 4060182.7    62.7     3.40     4.00
3.16     NO                    NO
 L0002302         0   0.15232E-03  732034.4 4060182.4    62.7     3.40     4.00
3.16     NO                    NO
 L0002303         0   0.15232E-03  732025.8 4060182.1    62.7     3.40     4.00
3.16     NO                    NO
 L0002304         0   0.15232E-03  732017.2 4060181.9    62.7     3.40     4.00
3.16     NO                    NO
 L0002305         0   0.15232E-03  732008.6 4060181.6    62.8     3.40     4.00
3.16     NO                    NO
 L0002306         0   0.15232E-03  732000.0 4060181.3    62.8     3.40     4.00
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3.16 NO NO
L0002307 0 0.15232E-03 731991.4 4060181.1 62.8 3.40 4.00
3.16 NO NO
L0002308 0 0.15232E-03 731982.8 4060180.8 62.8 3.40 4.00
3.16 NO NO
L0002309 0 0.15232E-03 731974.2 4060180.5 62.9 3.40 4.00
3.16 NO NO
L0002310 0 0.15232E-03 731965.6 4060180.3 62.9 3.40 4.00
3.16 NO NO
L0002311 0 0.15232E-03 731957.1 4060180.0 62.9 3.40 4.00
3.16 NO NO
L0002312 0 0.15232E-03 731948.5 4060179.7 62.9 3.40 4.00
3.16 NO NO
L0002313 0 0.15232E-03 731939.9 4060179.5 62.9 3.40 4.00
3.16 NO NO
L0002314 0 0.15232E-03 731931.3 4060179.2 63.0 3.40 4.00
3.16 NO NO
L0002315 0 0.15232E-03 731922.7 4060178.9 63.0 3.40 4.00
3.16 NO NO
L0002316 0 0.15232E-03 731914.1 4060178.7 63.0 3.40 4.00
3.16 NO NO
L0002317 0 0.15232E-03 731905.5 4060178.4 63.1 3.40 4.00
3.16 NO NO
L0002318 0 0.15232E-03 731896.9 4060178.1 63.1 3.40 4.00
3.16 NO NO
L0002319 0 0.15232E-03 731888.3 4060177.8 63.1 3.40 4.00
3.16 NO NO
L0002320 0 0.15232E-03 731879.7 4060177.6 63.1 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT SCALAR VARY
L0002321	0	0.15232E-03	731871.1	4060177.3	63.1	3.40	4.00			

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3.16     NO                    NO
 L0002322         0   0.15232E-03  731862.5 4060177.0    63.1     3.40     4.00
3.16     NO                    NO
 L0002323         0   0.15232E-03  731853.9 4060176.8    63.2     3.40     4.00
3.16     NO                    NO
 L0002324         0   0.15232E-03  731845.3 4060176.5    63.2     3.40     4.00
3.16     NO                    NO
 L0002325         0   0.15232E-03  731836.7 4060176.2    63.2     3.40     4.00
3.16     NO                    NO
 L0002326         0   0.15232E-03  731828.1 4060176.0    63.3     3.40     4.00
3.16     NO                    NO
 L0002327         0   0.15232E-03  731819.5 4060175.7    63.3     3.40     4.00
3.16     NO                    NO
 L0002328         0   0.15232E-03  731810.9 4060175.4    63.3     3.40     4.00
3.16     NO                    NO
 L0002329         0   0.15232E-03  731802.3 4060175.2    63.3     3.40     4.00
3.16     NO                    NO
 L0002330         0   0.15232E-03  731793.7 4060174.9    63.4     3.40     4.00
3.16     NO                    NO
 L0002331         0   0.15232E-03  731785.1 4060174.6    63.4     3.40     4.00
3.16     NO                    NO
 L0002332         0   0.15232E-03  731776.5 4060174.4    63.5     3.40     4.00
3.16     NO                    NO
 L0002333         0   0.15232E-03  731767.9 4060174.1    63.5     3.40     4.00
3.16     NO                    NO
 L0002334         0   0.15232E-03  731759.3 4060173.8    63.6     3.40     4.00
3.16     NO                    NO
 L0002335         0   0.15232E-03  731750.8 4060173.6    63.7     3.40     4.00
3.16     NO                    NO
 L0002336         0   0.15232E-03  731742.2 4060173.3    63.7     3.40     4.00
3.16     NO                    NO
 L0002337         0   0.15232E-03  731733.6 4060173.0    63.8     3.40     4.00
3.16     NO                    NO
 L0002338         0   0.15232E-03  731725.0 4060172.8    63.8     3.40     4.00
3.16     NO                    NO
 L0002339         0   0.15232E-03  731716.4 4060172.5    63.9     3.40     4.00
3.16     NO                    NO
 L0002340         0   0.15232E-03  731707.8 4060172.2    63.9     3.40     4.00
3.16     NO                    NO
 L0002341         0   0.15232E-03  731699.2 4060172.0    64.0     3.40     4.00
3.16     NO                    NO
 L0002342         0   0.15232E-03  731690.6 4060171.7    64.0     3.40     4.00
3.16     NO                    NO
 L0002343         0   0.15232E-03  731682.0 4060171.4    64.1     3.40     4.00
3.16     NO                    NO
 L0002344         0   0.15232E-03  731673.4 4060171.2    64.1     3.40     4.00
3.16     NO                    NO
 L0002345         0   0.15232E-03  731664.8 4060170.9    64.2     3.40     4.00
3.16     NO                    NO
 L0002346         0   0.15232E-03  731656.2 4060170.6    64.3     3.40     4.00
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3.16 NO NO
L0002347 0 0.15232E-03 731647.6 4060170.4 64.3 3.40 4.00
3.16 NO NO
L0002348 0 0.15232E-03 731639.0 4060170.1 64.4 3.40 4.00
3.16 NO NO
L0002349 0 0.15232E-03 731630.4 4060169.8 64.5 3.40 4.00
3.16 NO NO
L0002350 0 0.15232E-03 731621.8 4060169.6 64.5 3.40 4.00
3.16 NO NO
L0002351 0 0.15232E-03 731613.2 4060169.3 64.6 3.40 4.00
3.16 NO NO
L0002352 0 0.15232E-03 731604.6 4060169.0 64.6 3.40 4.00
3.16 NO NO
L0002353 0 0.15232E-03 731596.0 4060168.8 64.7 3.40 4.00
3.16 NO NO
L0002354 0 0.15232E-03 731587.4 4060168.5 64.7 3.40 4.00
3.16 NO NO
L0002355 0 0.15232E-03 731578.8 4060168.2 64.8 3.40 4.00
3.16 NO NO
L0002356 0 0.15232E-03 731570.2 4060168.0 64.8 3.40 4.00
3.16 NO NO
L0002357 0 0.15232E-03 731561.6 4060167.7 64.8 3.40 4.00
3.16 NO NO
L0002358 0 0.15232E-03 731553.0 4060167.4 64.8 3.40 4.00
3.16 NO NO
L0002359 0 0.15232E-03 731544.5 4060167.2 64.9 3.40 4.00
3.16 NO NO
L0002360 0 0.15232E-03 731535.9 4060166.9 64.9 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT EMISSION RATE SCALAR VARY BY
L0002361	0	0.15232E-03	731527.3	4060166.6	64.9	3.40	4.00			

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3.16     NO                    NO
 L0002362         0   0.15232E-03  731518.7 4060166.4    64.9     3.40     4.00
3.16     NO                    NO
 L0002363         0   0.15232E-03  731510.1 4060166.1    65.0     3.40     4.00
3.16     NO                    NO
 L0002364         0   0.15232E-03  731501.5 4060165.8    65.0     3.40     4.00
3.16     NO                    NO
 L0002365         0   0.15232E-03  731498.6 4060160.1    65.0     3.40     4.00
3.16     NO                    NO
 L0002366         0   0.15232E-03  731498.9 4060151.5    65.0     3.40     4.00
3.16     NO                    NO
 L0002367         0   0.15232E-03  731499.1 4060142.9    65.0     3.40     4.00
3.16     NO                    NO
 L0002368         0   0.15232E-03  731499.3 4060134.3    65.0     3.40     4.00
3.16     NO                    NO
 L0002369         0   0.15232E-03  731499.6 4060125.7    64.9     3.40     4.00
3.16     NO                    NO
 L0002370         0   0.15232E-03  731499.8 4060117.1    64.9     3.40     4.00
3.16     NO                    NO
 L0002371         0   0.15232E-03  731500.1 4060108.5    64.9     3.40     4.00
3.16     NO                    NO
 L0002372         0   0.15232E-03  731500.3 4060099.9    64.9     3.40     4.00
3.16     NO                    NO
 L0002373         0   0.15232E-03  731500.5 4060091.3    64.9     3.40     4.00
3.16     NO                    NO
 L0002374         0   0.15232E-03  731500.8 4060082.8    64.9     3.40     4.00
3.16     NO                    NO
 L0002375         0   0.15232E-03  731501.0 4060074.2    64.9     3.40     4.00
3.16     NO                    NO
 L0002376         0   0.15232E-03  731501.2 4060065.6    64.9     3.40     4.00
3.16     NO                    NO
 L0002377         0   0.15232E-03  731501.5 4060057.0    64.9     3.40     4.00
3.16     NO                    NO
 L0002378         0   0.15232E-03  731501.7 4060048.4    64.9     3.40     4.00
3.16     NO                    NO
 L0002379         0   0.15232E-03  731501.9 4060039.8    64.8     3.40     4.00
3.16     NO                    NO
 L0002380         0   0.15232E-03  731502.2 4060031.2    64.8     3.40     4.00
3.16     NO                    NO
 L0002381         0   0.15232E-03  731502.4 4060022.6    64.8     3.40     4.00
3.16     NO                    NO
 L0002382         0   0.15232E-03  731502.7 4060014.0    64.8     3.40     4.00
3.16     NO                    NO
 L0002383         0   0.15232E-03  731502.9 4060005.4    64.8     3.40     4.00
3.16     NO                    NO
 L0002384         0   0.15232E-03  731503.1 4059996.8    64.7     3.40     4.00
3.16     NO                    NO
 L0002385         0   0.15232E-03  731503.4 4059988.2    64.7     3.40     4.00
3.16     NO                    NO
 L0002386         0   0.15232E-03  731503.6 4059979.6    64.7     3.40     4.00
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3.16 NO NO
L0002387 0 0.15232E-03 731503.8 4059971.0 64.6 3.40 4.00
3.16 NO NO
L0002388 0 0.15232E-03 731504.1 4059962.4 64.6 3.40 4.00
3.16 NO NO
L0002389 0 0.15232E-03 731504.3 4059953.8 64.6 3.40 4.00
3.16 NO NO
L0002390 0 0.15232E-03 731504.6 4059945.2 64.6 3.40 4.00
3.16 NO NO
L0002391 0 0.15232E-03 731504.8 4059936.6 64.5 3.40 4.00
3.16 NO NO
L0002392 0 0.15232E-03 731505.0 4059928.0 64.5 3.40 4.00
3.16 NO NO
L0002393 0 0.15232E-03 731505.3 4059919.4 64.5 3.40 4.00
3.16 NO NO
L0002394 0 0.15232E-03 731505.5 4059910.8 64.5 3.40 4.00
3.16 NO NO
L0002395 0 0.15232E-03 731505.7 4059902.2 64.5 3.40 4.00
3.16 NO NO
L0002396 0 0.15232E-03 731506.0 4059893.6 64.5 3.40 4.00
3.16 NO NO
L0002397 0 0.15232E-03 731506.2 4059885.0 64.5 3.40 4.00
3.16 NO NO
L0002398 0 0.15232E-03 731506.4 4059876.4 64.4 3.40 4.00
3.16 NO NO
L0002399 0 0.15232E-03 731506.7 4059867.8 64.4 3.40 4.00
3.16 NO NO
L0002400 0 0.15232E-03 731506.9 4059859.2 64.4 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT EMISSION RATE SCALAR VARY
L0002401	0	0.15232E-03	731507.2	4059850.6	64.4	3.40	4.00			

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3.16     NO                    NO
 L0002402         0   0.15232E-03  731507.4 4059842.0    64.4     3.40     4.00
3.16     NO                    NO
 L0002403         0   0.15232E-03  731507.6 4059833.4    64.3     3.40     4.00
3.16     NO                    NO
 L0002404         0   0.15232E-03  731507.9 4059824.9    64.3     3.40     4.00
3.16     NO                    NO
 L0002405         0   0.15232E-03  731508.1 4059816.3    64.3     3.40     4.00
3.16     NO                    NO
 L0002406         0   0.15232E-03  731508.3 4059807.7    64.3     3.40     4.00
3.16     NO                    NO
 L0002407         0   0.15232E-03  731508.6 4059799.1    64.3     3.40     4.00
3.16     NO                    NO
 L0002408         0   0.15232E-03  731508.8 4059790.5    64.3     3.40     4.00
3.16     NO                    NO
 L0002409         0   0.15232E-03  731509.0 4059781.9    64.2     3.40     4.00
3.16     NO                    NO
 L0002410         0   0.15232E-03  731509.3 4059773.3    64.2     3.40     4.00
3.16     NO                    NO
 L0002411         0   0.15232E-03  731509.5 4059764.7    64.2     3.40     4.00
3.16     NO                    NO
 L0002412         0   0.15232E-03  731509.8 4059756.1    64.2     3.40     4.00
3.16     NO                    NO
 L0002413         0   0.15232E-03  731510.0 4059747.5    64.2     3.40     4.00
3.16     NO                    NO
 L0002414         0   0.15232E-03  731510.2 4059738.9    64.2     3.40     4.00
3.16     NO                    NO
 L0002415         0   0.15232E-03  731510.5 4059730.3    64.2     3.40     4.00
3.16     NO                    NO
 L0002416         0   0.15232E-03  731510.7 4059721.7    64.2     3.40     4.00
3.16     NO                    NO
 L0002417         0   0.15232E-03  731510.9 4059713.1    64.2     3.40     4.00
3.16     NO                    NO
 L0002418         0   0.15232E-03  731511.2 4059704.5    64.1     3.40     4.00
3.16     NO                    NO
 L0002419         0   0.15232E-03  731511.4 4059695.9    64.1     3.40     4.00
3.16     NO                    NO
 L0002420         0   0.15232E-03  731511.6 4059687.3    64.1     3.40     4.00
3.16     NO                    NO
 L0002421         0   0.15232E-03  731511.9 4059678.7    64.1     3.40     4.00
3.16     NO                    NO
 L0002422         0   0.15232E-03  731512.1 4059670.1    64.1     3.40     4.00
3.16     NO                    NO
 L0002423         0   0.15232E-03  731512.4 4059661.5    64.1     3.40     4.00
3.16     NO                    NO
 L0002424         0   0.15232E-03  731512.6 4059652.9    64.1     3.40     4.00
3.16     NO                    NO
 L0002425         0   0.15232E-03  731512.8 4059644.3    64.1     3.40     4.00
3.16     NO                    NO
 L0002426         0   0.15232E-03  731513.1 4059635.7    64.1     3.40     4.00
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3.16     NO                     NO
 L0002427         0   0.15232E-03  731513.3 4059627.1    64.1     3.40     4.00
3.16     NO                     NO
 L0002428         0   0.15232E-03  731513.5 4059618.5    64.1     3.40     4.00
3.16     NO                     NO
 L0002429         0   0.15232E-03  731513.8 4059609.9    64.1     3.40     4.00
3.16     NO                     NO
 L0002430         0   0.15232E-03  731514.0 4059601.3    64.1     3.40     4.00
3.16     NO                     NO
 L0002431         0   0.15232E-03  731514.3 4059592.7    64.1     3.40     4.00
3.16     NO                     NO
 L0002432         0   0.15232E-03  731514.5 4059584.1    64.1     3.40     4.00
3.16     NO                     NO
 L0002433         0   0.15232E-03  731514.7 4059575.5    64.1     3.40     4.00
3.16     NO                     NO
 L0002434         0   0.15232E-03  731515.0 4059566.9    64.1     3.40     4.00
3.16     NO                     NO
 L0002435         0   0.15232E-03  731515.2 4059558.4    64.1     3.40     4.00
3.16     NO                     NO
 L0002436         0   0.15232E-03  731515.4 4059549.8    64.1     3.40     4.00
3.16     NO                     NO
 L0002437         0   0.15232E-03  731515.7 4059541.2    64.1     3.40     4.00
3.16     NO                     NO
 L0002438         0   0.15232E-03  731515.9 4059532.6    64.1     3.40     4.00
3.16     NO                     NO
 L0002439         0   0.15232E-03  731516.1 4059524.0    64.1     3.40     4.00
3.16     NO                     NO
 L0002440         0   0.15232E-03  731516.4 4059515.4    64.1     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
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 L0002441         0   0.15232E-03  731516.6 4059506.8    64.1     3.40     4.00
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3.16     NO                    NO
 L0002442         0   0.15232E-03  731516.9 4059498.2    64.1     3.40     4.00
3.16     NO                    NO
 L0002443         0   0.15232E-03  731517.1 4059489.6    64.1     3.40     4.00
3.16     NO                    NO
 L0002444         0   0.15232E-03  731517.3 4059481.0    64.1     3.40     4.00
3.16     NO                    NO
 L0002445         0   0.15232E-03  731517.6 4059472.4    64.1     3.40     4.00
3.16     NO                    NO
 L0002446         0   0.15232E-03  731517.8 4059463.8    64.1     3.40     4.00
3.16     NO                    NO
 L0002447         0   0.15232E-03  731518.0 4059455.2    64.1     3.40     4.00
3.16     NO                    NO
 L0002448         0   0.15232E-03  731518.3 4059446.6    64.1     3.40     4.00
3.16     NO                    NO
 L0002449         0   0.15232E-03  731518.5 4059438.0    64.1     3.40     4.00
3.16     NO                    NO
 L0002450         0   0.15232E-03  731518.7 4059429.4    64.1     3.40     4.00
3.16     NO                    NO
 L0002451         0   0.15232E-03  731519.0 4059420.8    64.1     3.40     4.00
3.16     NO                    NO
 L0002452         0   0.15232E-03  731519.2 4059412.2    64.1     3.40     4.00
3.16     NO                    NO
 L0002453         0   0.15232E-03  731519.5 4059403.6    64.1     3.40     4.00
3.16     NO                    NO
 L0002454         0   0.15232E-03  731519.7 4059395.0    64.1     3.40     4.00
3.16     NO                    NO
 L0002455         0   0.15232E-03  731519.9 4059386.4    64.1     3.40     4.00
3.16     NO                    NO
 L0002456         0   0.15232E-03  731520.2 4059377.8    64.1     3.40     4.00
3.16     NO                    NO
 L0002457         0   0.15232E-03  731520.4 4059369.2    64.1     3.40     4.00
3.16     NO                    NO
 L0002458         0   0.15232E-03  731520.6 4059360.6    64.1     3.40     4.00
3.16     NO                    NO
 L0002459         0   0.15232E-03  731520.9 4059352.0    64.1     3.40     4.00
3.16     NO                    NO
 L0002460         0   0.15232E-03  731521.1 4059343.4    64.1     3.40     4.00
3.16     NO                    NO
 L0002461         0   0.15232E-03  731521.4 4059334.8    64.1     3.40     4.00
3.16     NO                    NO
 L0002462         0   0.15232E-03  731521.6 4059326.2    64.1     3.40     4.00
3.16     NO                    NO
 L0002463         0   0.15232E-03  731521.8 4059317.6    64.1     3.40     4.00
3.16     NO                    NO
 L0002464         0   0.15232E-03  731522.1 4059309.0    64.1     3.40     4.00
3.16     NO                    NO
 L0002465         0   0.15232E-03  731522.3 4059300.4    64.1     3.40     4.00
3.16     NO                    NO
 L0002466         0   0.15232E-03  731522.5 4059291.9    64.1     3.40     4.00
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3.16     NO                     NO
 L0002467         0   0.15232E-03  731522.8 4059283.3    64.1     3.40     4.00
3.16     NO                     NO
 L0002468         0   0.15232E-03  731523.0 4059274.7    64.1     3.40     4.00
3.16     NO                     NO
 L0002469         0   0.15232E-03  731523.2 4059266.1    64.1     3.40     4.00
3.16     NO                     NO
 L0002470         0   0.15232E-03  731523.5 4059257.5    64.1     3.40     4.00
3.16     NO                     NO
 L0002471         0   0.15232E-03  731523.7 4059248.9    64.1     3.40     4.00
3.16     NO                     NO
 L0002472         0   0.15232E-03  731524.0 4059240.3    64.1     3.40     4.00
3.16     NO                     NO
 L0002473         0   0.15232E-03  731524.2 4059231.7    64.1     3.40     4.00
3.16     NO                     NO
 L0002474         0   0.15232E-03  731524.4 4059223.1    64.1     3.40     4.00
3.16     NO                     NO
 L0002475         0   0.15232E-03  731531.2 4059221.3    64.1     3.40     4.00
3.16     NO                     NO
 L0002476         0   0.15232E-03  731539.8 4059221.4    64.1     3.40     4.00
3.16     NO                     NO
 L0002477         0   0.15232E-03  731548.4 4059221.5    64.1     3.40     4.00
3.16     NO                     NO
 L0002478         0   0.15232E-03  731557.0 4059221.6    64.1     3.40     4.00
3.16     NO                     NO
 L0002479         0   0.15232E-03  731565.6 4059221.7    64.0     3.40     4.00
3.16     NO                     NO
 L0002480         0   0.15232E-03  731574.2 4059221.8    64.0     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0002481         0   0.15232E-03  731582.8 4059221.9    64.0     3.40     4.00
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3.16     NO                    NO
 L0002482         0   0.15232E-03  731591.4 4059222.0    63.9     3.40     4.00
3.16     NO                    NO
 L0002483         0   0.15232E-03  731600.0 4059222.1    63.9     3.40     4.00
3.16     NO                    NO
 L0002484         0   0.15232E-03  731608.6 4059222.2    63.9     3.40     4.00
3.16     NO                    NO
 L0002485         0   0.15232E-03  731617.2 4059222.3    63.8     3.40     4.00
3.16     NO                    NO
 L0002486         0   0.15232E-03  731625.8 4059222.3    63.8     3.40     4.00
3.16     NO                    NO
 L0002487         0   0.15232E-03  731634.4 4059222.4    63.8     3.40     4.00
3.16     NO                    NO
 L0002488         0   0.15232E-03  731643.0 4059222.5    63.8     3.40     4.00
3.16     NO                    NO
 L0002489         0   0.15232E-03  731651.6 4059222.6    63.8     3.40     4.00
3.16     NO                    NO
 L0002490         0   0.15232E-03  731660.2 4059222.7    63.8     3.40     4.00
3.16     NO                    NO
 L0002491         0   0.15232E-03  731668.8 4059222.8    63.7     3.40     4.00
3.16     NO                    NO
 L0002492         0   0.15232E-03  731677.4 4059222.9    63.7     3.40     4.00
3.16     NO                    NO
 L0002493         0   0.15232E-03  731686.0 4059223.0    63.7     3.40     4.00
3.16     NO                    NO
 L0002494         0   0.15232E-03  731694.6 4059223.1    63.6     3.40     4.00
3.16     NO                    NO
 L0002495         0   0.15232E-03  731703.2 4059223.2    63.6     3.40     4.00
3.16     NO                    NO
 L0002496         0   0.15232E-03  731711.8 4059223.3    63.6     3.40     4.00
3.16     NO                    NO
 L0002497         0   0.15232E-03  731720.4 4059223.4    63.6     3.40     4.00
3.16     NO                    NO
 L0002498         0   0.15232E-03  731729.0 4059223.5    63.6     3.40     4.00
3.16     NO                    NO
 L0002499         0   0.15232E-03  731737.6 4059223.6    63.5     3.40     4.00
3.16     NO                    NO
 L0002500         0   0.15232E-03  731746.2 4059223.7    63.5     3.40     4.00
3.16     NO                    NO
 L0002501         0   0.15232E-03  731754.8 4059223.8    63.5     3.40     4.00
3.16     NO                    NO
 L0002502         0   0.15232E-03  731763.4 4059223.9    63.4     3.40     4.00
3.16     NO                    NO
 L0002503         0   0.15232E-03  731772.0 4059224.0    63.4     3.40     4.00
3.16     NO                    NO
 L0002504         0   0.15232E-03  731780.6 4059224.0    63.4     3.40     4.00
3.16     NO                    NO
 L0002505         0   0.15232E-03  731789.2 4059224.1    63.4     3.40     4.00
3.16     NO                    NO
 L0002506         0   0.15232E-03  731797.8 4059224.2    63.4     3.40     4.00
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3.16     NO                     NO
 L0002507         0   0.15232E-03  731806.4 4059224.3    63.3     3.40     4.00
3.16     NO                     NO
 L0002508         0   0.15232E-03  731815.0 4059224.4    63.3     3.40     4.00
3.16     NO                     NO
 L0002509         0   0.15232E-03  731823.6 4059224.5    63.3     3.40     4.00
3.16     NO                     NO
 L0002510         0   0.15232E-03  731832.2 4059224.6    63.3     3.40     4.00
3.16     NO                     NO
 L0002511         0   0.15232E-03  731840.8 4059224.7    63.2     3.40     4.00
3.16     NO                     NO
 L0002512         0   0.15232E-03  731849.4 4059224.8    63.2     3.40     4.00
3.16     NO                     NO
 L0002513         0   0.15232E-03  731858.0 4059224.9    63.2     3.40     4.00
3.16     NO                     NO
 L0002514         0   0.15232E-03  731866.6 4059225.0    63.2     3.40     4.00
3.16     NO                     NO
 L0002515         0   0.15232E-03  731875.2 4059225.1    63.2     3.40     4.00
3.16     NO                     NO
 L0002516         0   0.15232E-03  731883.8 4059225.2    63.1     3.40     4.00
3.16     NO                     NO
 L0002517         0   0.15232E-03  731892.4 4059225.3    63.1     3.40     4.00
3.16     NO                     NO
 L0002518         0   0.15232E-03  731901.0 4059225.4    63.1     3.40     4.00
3.16     NO                     NO
 L0002519         0   0.15232E-03  731909.6 4059225.5    63.0     3.40     4.00
3.16     NO                     NO
 L0002520         0   0.15232E-03  731918.2 4059225.6    63.0     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0002521         0   0.15232E-03  731926.8 4059225.7    63.0     3.40     4.00
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3.16     NO                    NO
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3.16     NO                    NO
 L0002523         0   0.15232E-03  731944.0 4059225.8    62.9     3.40     4.00
3.16     NO                    NO
 L0002524         0   0.15232E-03  731952.6 4059225.9    62.9     3.40     4.00
3.16     NO                    NO
 L0002525         0   0.15232E-03  731961.2 4059226.0    62.8     3.40     4.00
3.16     NO                    NO
 L0002526         0   0.15232E-03  731969.8 4059226.1    62.8     3.40     4.00
3.16     NO                    NO
 L0002527         0   0.15232E-03  731978.4 4059226.2    62.8     3.40     4.00
3.16     NO                    NO
 L0002528         0   0.15232E-03  731987.0 4059226.3    62.8     3.40     4.00
3.16     NO                    NO
 L0002529         0   0.15232E-03  731995.6 4059226.4    62.8     3.40     4.00
3.16     NO                    NO
 L0002530         0   0.15232E-03  732004.2 4059226.5    62.8     3.40     4.00
3.16     NO                    NO
 L0002531         0   0.15232E-03  732012.8 4059226.6    62.7     3.40     4.00
3.16     NO                    NO
 L0002532         0   0.15232E-03  732021.4 4059226.7    62.7     3.40     4.00
3.16     NO                    NO
 L0002533         0   0.15232E-03  732030.0 4059226.8    62.7     3.40     4.00
3.16     NO                    NO
 L0002534         0   0.15232E-03  732038.6 4059226.9    62.6     3.40     4.00
3.16     NO                    NO
 L0002535         0   0.15232E-03  732047.2 4059227.0    62.6     3.40     4.00
3.16     NO                    NO
 L0002536         0   0.15232E-03  732055.8 4059227.1    62.6     3.40     4.00
3.16     NO                    NO
 L0002537         0   0.15232E-03  732064.4 4059227.2    62.5     3.40     4.00
3.16     NO                    NO
 L0002538         0   0.15232E-03  732073.0 4059227.3    62.5     3.40     4.00
3.16     NO                    NO
 L0002539         0   0.15232E-03  732081.6 4059227.4    62.5     3.40     4.00
3.16     NO                    NO
 L0002540         0   0.15232E-03  732090.2 4059227.5    62.4     3.40     4.00
3.16     NO                    NO
 L0002541         0   0.15232E-03  732098.8 4059227.5    62.4     3.40     4.00
3.16     NO                    NO
 L0002542         0   0.15232E-03  732107.4 4059227.6    62.3     3.40     4.00
3.16     NO                    NO
 L0002543         0   0.15232E-03  732116.0 4059227.7    62.3     3.40     4.00
3.16     NO                    NO
 L0002544         0   0.15232E-03  732124.6 4059227.8    62.3     3.40     4.00
3.16     NO                    NO
 L0002545         0   0.15232E-03  732133.2 4059227.9    62.3     3.40     4.00
3.16     NO                    NO
 L0002546         0   0.15232E-03  732141.8 4059228.0    62.2     3.40     4.00
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3.16 NO NO
L0002547 0 0.15232E-03 732150.4 4059228.1 62.2 3.40 4.00
3.16 NO NO
L0002548 0 0.15232E-03 732159.0 4059228.2 62.2 3.40 4.00
3.16 NO NO
L0002549 0 0.15232E-03 732167.6 4059228.3 62.1 3.40 4.00
3.16 NO NO
L0002550 0 0.15232E-03 732176.2 4059228.4 62.1 3.40 4.00
3.16 NO NO
L0002551 0 0.15232E-03 732184.8 4059228.5 62.1 3.40 4.00
3.16 NO NO
L0002552 0 0.15232E-03 732193.4 4059228.6 62.1 3.40 4.00
3.16 NO NO
L0002553 0 0.15232E-03 732202.0 4059228.7 62.1 3.40 4.00
3.16 NO NO
L0002554 0 0.15232E-03 732210.6 4059228.8 62.0 3.40 4.00
3.16 NO NO
L0002555 0 0.15232E-03 732219.2 4059228.9 62.0 3.40 4.00
3.16 NO NO
L0002556 0 0.15232E-03 732227.8 4059229.0 62.0 3.40 4.00
3.16 NO NO
L0002557 0 0.15232E-03 732236.4 4059229.1 61.9 3.40 4.00
3.16 NO NO
L0002558 0 0.15232E-03 732245.0 4059229.2 61.9 3.40 4.00
3.16 NO NO
L0002559 0 0.15232E-03 732253.6 4059229.2 61.9 3.40 4.00
3.16 NO NO
L0002560 0 0.15232E-03 732262.2 4059229.3 61.8 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT SCALAR VARY BY
L0002561	0	0.15232E-03	732270.8	4059229.4	61.8	3.40	4.00			

3.16	NO		NO					
L0002562		0	0.15232E-03	732279.4	4059229.5	61.8	3.40	4.00
3.16	NO		NO					
L0002563		0	0.15232E-03	732288.0	4059229.6	61.7	3.40	4.00
3.16	NO		NO					
L0002564		0	0.15232E-03	732296.6	4059229.7	61.7	3.40	4.00
3.16	NO		NO					
L0002565		0	0.15232E-03	732305.2	4059229.8	61.7	3.40	4.00
3.16	NO		NO					
L0002566		0	0.15232E-03	732313.0	4059229.1	61.7	3.40	4.00
3.16	NO		NO					
L0002567		0	0.15232E-03	732313.3	4059220.5	61.7	3.40	4.00
3.16	NO		NO					
L0002568		0	0.15232E-03	732313.5	4059211.9	61.7	3.40	4.00
3.16	NO		NO					
L0002569		0	0.15232E-03	732313.7	4059203.3	61.7	3.40	4.00
3.16	NO		NO					
L0002570		0	0.15232E-03	732314.0	4059194.7	61.7	3.40	4.00
3.16	NO		NO					
L0002571		0	0.15232E-03	732314.2	4059186.1	61.7	3.40	4.00
3.16	NO		NO					
L0002572		0	0.15232E-03	732314.4	4059177.5	61.7	3.40	4.00
3.16	NO		NO					
L0002573		0	0.15232E-03	732314.7	4059168.9	61.8	3.40	4.00
3.16	NO		NO					
L0002574		0	0.15232E-03	732314.9	4059160.3	61.8	3.40	4.00
3.16	NO		NO					
L0002575		0	0.15232E-03	732315.1	4059151.7	61.8	3.40	4.00
3.16	NO		NO					
L0002576		0	0.15232E-03	732315.4	4059143.1	61.8	3.40	4.00
3.16	NO		NO					
L0002577		0	0.15232E-03	732315.6	4059134.6	61.8	3.40	4.00
3.16	NO		NO					
L0002578		0	0.15232E-03	732315.8	4059126.0	61.8	3.40	4.00
3.16	NO		NO					
L0002579		0	0.15232E-03	732316.1	4059117.4	61.8	3.40	4.00
3.16	NO		NO					
L0002580		0	0.15232E-03	732316.3	4059108.8	61.8	3.40	4.00
3.16	NO		NO					
L0002581		0	0.15232E-03	732316.5	4059100.2	61.9	3.40	4.00
3.16	NO		NO					
L0002582		0	0.15232E-03	732316.8	4059091.6	61.9	3.40	4.00
3.16	NO		NO					
L0002583		0	0.15232E-03	732317.0	4059083.0	61.9	3.40	4.00
3.16	NO		NO					
L0002584		0	0.15232E-03	732317.3	4059074.4	61.9	3.40	4.00
3.16	NO		NO					
L0002585		0	0.15232E-03	732317.5	4059065.8	61.9	3.40	4.00
3.16	NO		NO					
L0002586		0	0.15232E-03	732317.7	4059057.2	61.9	3.40	4.00

3.16   NO   NO
 L0002587   0   0.15232E-03 732318.0 4059048.6   61.9   3.40   4.00
3.16   NO   NO
 L0002588   0   0.15232E-03 732318.2 4059040.0   61.9   3.40   4.00
3.16   NO   NO
 L0002589   0   0.15232E-03 732318.4 4059031.4   61.9   3.40   4.00
3.16   NO   NO
 L0002590   0   0.15232E-03 732318.7 4059022.8   62.0   3.40   4.00
3.16   NO   NO
 L0002591   0   0.15232E-03 732318.9 4059014.2   62.0   3.40   4.00
3.16   NO   NO
 L0002592   0   0.15232E-03 732319.1 4059005.6   62.0   3.40   4.00
3.16   NO   NO
 L0002593   0   0.15232E-03 732319.4 4058997.0   62.0   3.40   4.00
3.16   NO   NO
 L0002594   0   0.15232E-03 732319.6 4058988.4   62.0   3.40   4.00
3.16   NO   NO
 L0002595   0   0.15232E-03 732319.8 4058979.8   62.0   3.40   4.00
3.16   NO   NO
 L0002596   0   0.15232E-03 732320.1 4058971.2   62.0   3.40   4.00
3.16   NO   NO
 L0002597   0   0.15232E-03 732320.3 4058962.6   62.1   3.40   4.00
3.16   NO   NO
 L0002598   0   0.15232E-03 732320.5 4058954.0   62.1   3.40   4.00
3.16   NO   NO
 L0002599   0   0.15232E-03 732320.8 4058945.4   62.1   3.40   4.00
3.16   NO   NO
 L0002600   0   0.15232E-03 732321.0 4058936.8   62.1   3.40   4.00
3.16   NO   NO

                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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 L0002601   0   0.15232E-03 732321.2 4058928.2   62.1   3.40   4.00

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3.16     NO                    NO
 L0002602         0   0.15232E-03  732321.5 4058919.6    62.1     3.40     4.00
3.16     NO                    NO
 L0002603         0   0.15232E-03  732321.7 4058911.0    62.1     3.40     4.00
3.16     NO                    NO
 L0002604         0   0.15232E-03  732321.9 4058902.4    62.1     3.40     4.00
3.16     NO                    NO
 L0002605         0   0.15232E-03  732322.2 4058893.8    62.1     3.40     4.00
3.16     NO                    NO
 L0002606         0   0.15232E-03  732322.4 4058885.2    62.1     3.40     4.00
3.16     NO                    NO
 L0002607         0   0.15232E-03  732322.7 4058876.6    62.1     3.40     4.00
3.16     NO                    NO
 L0002608         0   0.15232E-03  732322.9 4058868.1    62.1     3.40     4.00
3.16     NO                    NO
 L0002609         0   0.15232E-03  732323.1 4058859.5    62.1     3.40     4.00
3.16     NO                    NO
 L0002610         0   0.15232E-03  732323.4 4058850.9    62.1     3.40     4.00
3.16     NO                    NO
 L0002611         0   0.15232E-03  732323.6 4058842.3    62.1     3.40     4.00
3.16     NO                    NO
 L0002612         0   0.15232E-03  732323.8 4058833.7    62.2     3.40     4.00
3.16     NO                    NO
 L0002613         0   0.15232E-03  732324.1 4058825.1    62.2     3.40     4.00
3.16     NO                    NO
 L0002614         0   0.15232E-03  732324.3 4058816.5    62.2     3.40     4.00
3.16     NO                    NO
 L0002615         0   0.15232E-03  732324.5 4058807.9    62.2     3.40     4.00
3.16     NO                    NO
 L0002616         0   0.15232E-03  732324.8 4058799.3    62.2     3.40     4.00
3.16     NO                    NO
 L0002617         0   0.15232E-03  732325.0 4058790.7    62.2     3.40     4.00
3.16     NO                    NO
 L0002618         0   0.15232E-03  732325.2 4058782.1    62.2     3.40     4.00
3.16     NO                    NO
 L0002619         0   0.15232E-03  732325.5 4058773.5    62.2     3.40     4.00
3.16     NO                    NO
 L0002620         0   0.15232E-03  732325.7 4058764.9    62.2     3.40     4.00
3.16     NO                    NO
 L0002621         0   0.15232E-03  732325.9 4058756.3    62.2     3.40     4.00
3.16     NO                    NO
 L0002622         0   0.15232E-03  732326.2 4058747.7    62.2     3.40     4.00
3.16     NO                    NO
 L0002623         0   0.15232E-03  732326.4 4058739.1    62.2     3.40     4.00
3.16     NO                    NO
 L0002624         0   0.15232E-03  732326.6 4058730.5    62.2     3.40     4.00
3.16     NO                    NO
 L0002625         0   0.15232E-03  732326.9 4058721.9    62.2     3.40     4.00
3.16     NO                    NO
 L0002626         0   0.15232E-03  732327.1 4058713.3    62.3     3.40     4.00
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3.16   NO   NO
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3.16   NO   NO
 L0002628   0   0.15232E-03 732327.6 4058696.1   62.3   3.40   4.00
3.16   NO   NO
 L0002629   0   0.15232E-03 732327.8 4058687.5   62.3   3.40   4.00
3.16   NO   NO
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3.16   NO   NO
 L0002631   0   0.15232E-03 732328.3 4058670.3   62.3   3.40   4.00
3.16   NO   NO
 L0002632   0   0.15232E-03 732328.5 4058661.7   62.3   3.40   4.00
3.16   NO   NO
 L0002633   0   0.15232E-03 732328.8 4058653.1   62.3   3.40   4.00
3.16   NO   NO
 L0002634   0   0.15232E-03 732329.0 4058644.5   62.3   3.40   4.00
3.16   NO   NO
 L0002635   0   0.15232E-03 732329.2 4058635.9   62.3   3.40   4.00
3.16   NO   NO
 L0002636   0   0.15232E-03 732329.5 4058627.3   62.3   3.40   4.00
3.16   NO   NO
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3.16   NO   NO
 L0002638   0   0.15232E-03 732329.9 4058610.1   62.3   3.40   4.00
3.16   NO   NO
 L0002639   0   0.15232E-03 732330.2 4058601.6   62.3   3.40   4.00
3.16   NO   NO
 L0002640   0   0.15232E-03 732330.4 4058593.0   62.3   3.40   4.00
3.16   NO   NO

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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 L0002641   0   0.15232E-03 732330.6 4058584.4   62.3   3.40   4.00

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3.16     NO                    NO
 L0002642         0   0.15232E-03  732330.9 4058575.8    62.3     3.40     4.00
3.16     NO                    NO
 L0002643         0   0.15232E-03  732331.1 4058567.2    62.3     3.40     4.00
3.16     NO                    NO
 L0002644         0   0.15232E-03  732331.3 4058558.6    62.4     3.40     4.00
3.16     NO                    NO
 L0002645         0   0.15232E-03  732331.6 4058550.0    62.3     3.40     4.00
3.16     NO                    NO
 L0002646         0   0.15232E-03  732331.8 4058541.4    62.3     3.40     4.00
3.16     NO                    NO
 L0002647         0   0.15232E-03  732332.0 4058532.8    62.3     3.40     4.00
3.16     NO                    NO
 L0002648         0   0.15232E-03  732332.3 4058524.2    62.4     3.40     4.00
3.16     NO                    NO
 L0002649         0   0.15232E-03  732332.5 4058515.6    62.4     3.40     4.00
3.16     NO                    NO
 L0002650         0   0.15232E-03  732332.8 4058507.0    62.4     3.40     4.00
3.16     NO                    NO
 L0002651         0   0.15232E-03  732333.0 4058498.4    62.4     3.40     4.00
3.16     NO                    NO
 L0002652         0   0.15232E-03  732333.2 4058489.8    62.4     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0002654         0   0.15232E-03  732333.7 4058472.6    62.4     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0002657         0   0.15232E-03  732334.4 4058446.8    62.4     3.40     4.00
3.16     NO                    NO
 L0002658         0   0.15232E-03  732334.6 4058438.2    62.4     3.40     4.00
3.16     NO                    NO
 L0002659         0   0.15232E-03  732334.9 4058429.6    62.4     3.40     4.00
3.16     NO                    NO
 L0002660         0   0.15232E-03  732335.1 4058421.0    62.4     3.40     4.00
3.16     NO                    NO
 L0002661         0   0.15232E-03  732335.3 4058412.4    62.4     3.40     4.00
3.16     NO                    NO
 L0002662         0   0.15232E-03  732335.6 4058403.8    62.4     3.40     4.00
3.16     NO                    NO
 L0002663         0   0.15232E-03  732335.8 4058395.2    62.4     3.40     4.00
3.16     NO                    NO
 L0002664         0   0.15232E-03  732336.0 4058386.6    62.4     3.40     4.00
3.16     NO                    NO
 L0002665         0   0.15232E-03  732336.3 4058378.0    62.4     3.40     4.00
3.16     NO                    NO
 L0002666         0   0.15232E-03  732336.5 4058369.4    62.4     3.40     4.00
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3.16     NO                     NO
 L0002667         0   0.15232E-03  732336.7 4058360.8    62.4     3.40     4.00
3.16     NO                     NO
 L0002668         0   0.15232E-03  732337.0 4058352.2    62.4     3.40     4.00
3.16     NO                     NO
 L0002669         0   0.15232E-03  732337.2 4058343.6    62.5     3.40     4.00
3.16     NO                     NO
 L0002670         0   0.15232E-03  732337.5 4058335.1    62.5     3.40     4.00
3.16     NO                     NO
 L0002671         0   0.15232E-03  732337.7 4058326.5    62.5     3.40     4.00
3.16     NO                     NO
 L0002672         0   0.15232E-03  732337.9 4058317.9    62.5     3.40     4.00
3.16     NO                     NO
 L0002673         0   0.15232E-03  732338.2 4058309.3    62.5     3.40     4.00
3.16     NO                     NO
 L0002674         0   0.15232E-03  732338.4 4058300.7    62.5     3.40     4.00
3.16     NO                     NO
 L0002675         0   0.15232E-03  732338.6 4058292.1    62.5     3.40     4.00
3.16     NO                     NO
 L0002676         0   0.15232E-03  732338.9 4058283.5    62.5     3.40     4.00
3.16     NO                     NO
 L0002677         0   0.15232E-03  732339.1 4058274.9    62.5     3.40     4.00
3.16     NO                     NO
 L0002678         0   0.15232E-03  732339.3 4058266.3    62.5     3.40     4.00
3.16     NO                     NO
 L0002679         0   0.15232E-03  732339.6 4058257.7    62.5     3.40     4.00
3.16     NO                     NO
 L0002680         0   0.15232E-03  732339.8 4058249.1    62.5     3.40     4.00
3.16     NO                     NO
↟ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0002681         0   0.15232E-03  732340.0 4058240.5    62.5     3.40     4.00
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3.16     NO                    NO
 L0002682         0   0.15232E-03  732340.3 4058231.9    62.5     3.40     4.00
3.16     NO                    NO
 L0002683         0   0.15232E-03  732340.5 4058223.3    62.5     3.40     4.00
3.16     NO                    NO
 L0002684         0   0.15232E-03  732340.7 4058214.7    62.5     3.40     4.00
3.16     NO                    NO
 L0002685         0   0.15232E-03  732341.0 4058206.1    62.5     3.40     4.00
3.16     NO                    NO
 L0002686         0   0.15232E-03  732341.2 4058197.5    62.5     3.40     4.00
3.16     NO                    NO
 L0002687         0   0.15232E-03  732341.4 4058188.9    62.5     3.40     4.00
3.16     NO                    NO
 L0002688         0   0.15232E-03  732341.7 4058180.3    62.6     3.40     4.00
3.16     NO                    NO
 L0002689         0   0.15232E-03  732341.9 4058171.7    62.6     3.40     4.00
3.16     NO                    NO
 L0002690         0   0.15232E-03  732342.1 4058163.1    62.6     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0002692         0   0.15232E-03  732342.6 4058145.9    62.6     3.40     4.00
3.16     NO                    NO
 L0002693         0   0.15232E-03  732342.9 4058137.3    62.6     3.40     4.00
3.16     NO                    NO
 L0002694         0   0.15232E-03  732343.1 4058128.7    62.6     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0002697         0   0.15232E-03  732343.8 4058102.9    62.6     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0002699         0   0.15232E-03  732344.3 4058085.7    62.6     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0002701         0   0.15232E-03  732344.7 4058068.5    62.6     3.40     4.00
3.16     NO                    NO
 L0002702         0   0.15232E-03  732345.0 4058060.0    62.6     3.40     4.00
3.16     NO                    NO
 L0002703         0   0.15232E-03  732345.2 4058051.4    62.6     3.40     4.00
3.16     NO                    NO
 L0002704         0   0.15232E-03  732345.4 4058042.8    62.6     3.40     4.00
3.16     NO                    NO
 L0002705         0   0.15232E-03  732345.7 4058034.2    62.6     3.40     4.00
3.16     NO                    NO
 L0002706         0   0.15232E-03  732345.9 4058025.6    62.6     3.40     4.00
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3.16     NO                     NO
 L0002707         0   0.15232E-03  732346.1 4058017.0    62.6     3.40     4.00
3.16     NO                     NO
 L0002708         0   0.15232E-03  732346.4 4058008.4    62.7     3.40     4.00
3.16     NO                     NO
 L0002709         0   0.15232E-03  732346.6 4057999.8    62.7     3.40     4.00
3.16     NO                     NO
 L0002710         0   0.15232E-03  732346.8 4057991.2    62.7     3.40     4.00
3.16     NO                     NO
 L0002711         0   0.15232E-03  732347.1 4057982.6    62.7     3.40     4.00
3.16     NO                     NO
 L0002712         0   0.15232E-03  732347.3 4057974.0    62.7     3.40     4.00
3.16     NO                     NO
 L0002713         0   0.15232E-03  732347.6 4057965.4    62.7     3.40     4.00
3.16     NO                     NO
 L0002714         0   0.15232E-03  732347.8 4057956.8    62.7     3.40     4.00
3.16     NO                     NO
 L0002715         0   0.15232E-03  732348.0 4057948.2    62.7     3.40     4.00
3.16     NO                     NO
 L0002716         0   0.15232E-03  732348.3 4057939.6    62.7     3.40     4.00
3.16     NO                     NO
 L0002717         0   0.15232E-03  732348.5 4057931.0    62.7     3.40     4.00
3.16     NO                     NO
 L0002718         0   0.15232E-03  732348.7 4057922.4    62.7     3.40     4.00
3.16     NO                     NO
 L0002719         0   0.15232E-03  732349.0 4057913.8    62.7     3.40     4.00
3.16     NO                     NO
 L0002720         0   0.15232E-03  732349.2 4057905.2    62.7     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0002721         0   0.15232E-03  732349.4 4057896.6    62.7     3.40     4.00
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3.16     NO                    NO
 L0002722         0   0.15232E-03  732349.7 4057888.0    62.7     3.40     4.00
3.16     NO                    NO
 L0002723         0   0.15232E-03  732349.9 4057879.4    62.7     3.40     4.00
3.16     NO                    NO
 L0002724         0   0.15232E-03  732350.1 4057870.8    62.7     3.40     4.00
3.16     NO                    NO
 L0002725         0   0.15232E-03  732350.4 4057862.2    62.8     3.40     4.00
3.16     NO                    NO
 L0002726         0   0.15232E-03  732350.6 4057853.6    62.8     3.40     4.00
3.16     NO                    NO
 L0002727         0   0.15232E-03  732350.8 4057845.0    62.8     3.40     4.00
3.16     NO                    NO
 L0002728         0   0.15232E-03  732351.1 4057836.4    62.8     3.40     4.00
3.16     NO                    NO
 L0002729         0   0.15232E-03  732351.3 4057827.8    62.8     3.40     4.00
3.16     NO                    NO
 L0002730         0   0.15232E-03  732351.5 4057819.2    62.8     3.40     4.00
3.16     NO                    NO
 L0002731         0   0.15232E-03  732351.8 4057810.6    62.8     3.40     4.00
3.16     NO                    NO
 L0002732         0   0.15232E-03  732352.0 4057802.0    62.8     3.40     4.00
3.16     NO                    NO
 L0002733         0   0.15232E-03  732352.2 4057793.5    62.8     3.40     4.00
3.16     NO                    NO
 L0002734         0   0.15232E-03  732352.5 4057784.9    62.8     3.40     4.00
3.16     NO                    NO
 L0002735         0   0.15232E-03  732352.7 4057776.3    62.8     3.40     4.00
3.16     NO                    NO
 L0002736         0   0.15232E-03  732353.0 4057767.7    62.8     3.40     4.00
3.16     NO                    NO
 L0002737         0   0.15232E-03  732353.2 4057759.1    62.8     3.40     4.00
3.16     NO                    NO
 L0002738         0   0.15232E-03  732353.4 4057750.5    62.8     3.40     4.00
3.16     NO                    NO
 L0002739         0   0.15232E-03  732353.7 4057741.9    62.8     3.40     4.00
3.16     NO                    NO
 L0002740         0   0.15232E-03  732353.9 4057733.3    62.8     3.40     4.00
3.16     NO                    NO
 L0002741         0   0.15232E-03  732354.1 4057724.7    62.8     3.40     4.00
3.16     NO                    NO
 L0002742         0   0.15232E-03  732354.4 4057716.1    62.8     3.40     4.00
3.16     NO                    NO
 L0002743         0   0.15232E-03  732354.6 4057707.5    62.8     3.40     4.00
3.16     NO                    NO
 L0002744         0   0.15232E-03  732354.8 4057698.9    62.8     3.40     4.00
3.16     NO                    NO
 L0002745         0   0.15232E-03  732355.1 4057690.3    62.8     3.40     4.00
3.16     NO                    NO
 L0002746         0   0.15232E-03  732355.3 4057681.7    62.9     3.40     4.00
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3.16 NO NO
L0002747 0 0.15232E-03 732355.5 4057673.1 62.9 3.40 4.00
3.16 NO NO
L0002748 0 0.15232E-03 732355.8 4057664.5 62.9 3.40 4.00
3.16 NO NO
L0002749 0 0.15232E-03 732356.0 4057655.9 62.9 3.40 4.00
3.16 NO NO
L0002750 0 0.15232E-03 732356.2 4057647.3 62.9 3.40 4.00
3.16 NO NO
L0002751 0 0.15232E-03 732361.8 4057644.5 62.9 3.40 4.00
3.16 NO NO
L0002752 0 0.15232E-03 732370.4 4057645.1 62.9 3.40 4.00
3.16 NO NO
L0002753 0 0.15232E-03 732379.0 4057645.7 62.8 3.40 4.00
3.16 NO NO
L0002754 0 0.15232E-03 732387.5 4057646.2 62.8 3.40 4.00
3.16 NO NO
L0002755 0 0.15232E-03 732396.1 4057646.8 62.8 3.40 4.00
3.16 NO NO
L0002756 0 0.15232E-03 732404.7 4057647.4 62.8 3.40 4.00
3.16 NO NO
L0002757 0 0.15232E-03 732413.3 4057647.9 62.8 3.40 4.00
3.16 NO NO
L0002758 0 0.15232E-03 732421.9 4057648.5 62.8 3.40 4.00
3.16 NO NO
L0002759 0 0.15232E-03 732430.4 4057649.1 62.7 3.40 4.00
3.16 NO NO
L0002760 0 0.15232E-03 732439.0 4057649.6 62.7 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT SCALAR VARY BY
L0002761	0	0.15232E-03	732447.6	4057650.2	62.7	3.40	4.00			

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3.16     NO                    NO
 L0002762         0   0.15232E-03  732456.2 4057650.8    62.6     3.40     4.00
3.16     NO                    NO
 L0002763         0   0.15232E-03  732464.8 4057651.3    62.6     3.40     4.00
3.16     NO                    NO
 L0002764         0   0.15232E-03  732473.4 4057651.9    62.6     3.40     4.00
3.16     NO                    NO
 L0002765         0   0.15232E-03  732481.9 4057652.4    62.6     3.40     4.00
3.16     NO                    NO
 L0002766         0   0.15232E-03  732490.5 4057653.0    62.6     3.40     4.00
3.16     NO                    NO
 L0002767         0   0.15232E-03  732499.1 4057653.6    62.5     3.40     4.00
3.16     NO                    NO
 L0002768         0   0.15232E-03  732507.7 4057654.1    62.5     3.40     4.00
3.16     NO                    NO
 L0002769         0   0.15232E-03  732516.3 4057654.7    62.5     3.40     4.00
3.16     NO                    NO
 L0002770         0   0.15232E-03  732524.8 4057655.3    62.5     3.40     4.00
3.16     NO                    NO
 L0002771         0   0.15232E-03  732533.4 4057655.8    62.4     3.40     4.00
3.16     NO                    NO
 L0002772         0   0.15232E-03  732542.0 4057656.4    62.4     3.40     4.00
3.16     NO                    NO
 L0002773         0   0.15232E-03  732550.6 4057657.0    62.4     3.40     4.00
3.16     NO                    NO
 L0002774         0   0.15232E-03  732559.2 4057657.5    62.4     3.40     4.00
3.16     NO                    NO
 L0002775         0   0.15232E-03  732567.7 4057658.1    62.4     3.40     4.00
3.16     NO                    NO
 L0002776         0   0.15232E-03  732576.3 4057658.7    62.3     3.40     4.00
3.16     NO                    NO
 L0002777         0   0.15232E-03  732584.9 4057659.2    62.3     3.40     4.00
3.16     NO                    NO
 L0002778         0   0.15232E-03  732593.5 4057659.8    62.3     3.40     4.00
3.16     NO                    NO
 L0002779         0   0.15232E-03  732602.1 4057660.4    62.2     3.40     4.00
3.16     NO                    NO
 L0002780         0   0.15232E-03  732610.7 4057660.9    62.2     3.40     4.00
3.16     NO                    NO
 L0002781         0   0.15232E-03  732619.2 4057661.5    62.2     3.40     4.00
3.16     NO                    NO
 L0002782         0   0.15232E-03  732627.8 4057662.0    62.2     3.40     4.00
3.16     NO                    NO
 L0002783         0   0.15232E-03  732636.4 4057662.6    62.2     3.40     4.00
3.16     NO                    NO
 L0002784         0   0.15232E-03  732645.0 4057663.2    62.2     3.40     4.00
3.16     NO                    NO
 L0002785         0   0.15232E-03  732653.6 4057663.7    62.1     3.40     4.00
3.16     NO                    NO
 L0002786         0   0.15232E-03  732662.1 4057664.3    62.1     3.40     4.00
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3.16   NO   NO
 L0002787   0   0.15232E-03 732670.7 4057664.9   62.1   3.40   4.00
3.16   NO   NO
 L0002788   0   0.15232E-03 732679.3 4057665.4   62.1   3.40   4.00
3.16   NO   NO
 L0002789   0   0.15232E-03 732687.9 4057666.0   62.1   3.40   4.00
3.16   NO   NO
 L0002790   0   0.15232E-03 732696.5 4057666.6   62.0   3.40   4.00
3.16   NO   NO
 L0002791   0   0.15232E-03 732705.1 4057667.1   62.0   3.40   4.00
3.16   NO   NO
 L0002792   0   0.15232E-03 732713.6 4057667.7   62.0   3.40   4.00
3.16   NO   NO
 L0002793   0   0.15232E-03 732722.2 4057668.3   61.9   3.40   4.00
3.16   NO   NO
 L0002794   0   0.15232E-03 732730.8 4057668.8   61.9   3.40   4.00
3.16   NO   NO
 L0002795   0   0.15232E-03 732739.4 4057669.4   61.9   3.40   4.00
3.16   NO   NO
 L0002796   0   0.15232E-03 732748.0 4057670.0   61.9   3.40   4.00
3.16   NO   NO
 L0002797   0   0.15232E-03 732756.5 4057670.5   61.9   3.40   4.00
3.16   NO   NO
 L0002798   0   0.15232E-03 732765.1 4057671.1   61.9   3.40   4.00
3.16   NO   NO
 L0002799   0   0.15232E-03 732773.7 4057671.6   61.8   3.40   4.00
3.16   NO   NO
 L0002800   0   0.15232E-03 732782.3 4057672.2   61.8   3.40   4.00
3.16   NO   NO

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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 L0002801   0   0.15232E-03 732790.9 4057672.8   61.8   3.40   4.00

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3.16     NO                    NO
 L0002802         0   0.15232E-03  732799.4 4057673.3    61.8     3.40     4.00
3.16     NO                    NO
 L0002803         0   0.15232E-03  732808.0 4057673.9    61.8     3.40     4.00
3.16     NO                    NO
 L0002804         0   0.15232E-03  732816.6 4057674.5    61.7     3.40     4.00
3.16     NO                    NO
 L0002805         0   0.15232E-03  732825.2 4057675.0    61.7     3.40     4.00
3.16     NO                    NO
 L0002806         0   0.15232E-03  732833.8 4057675.6    61.7     3.40     4.00
3.16     NO                    NO
 L0002807         0   0.15232E-03  732842.4 4057676.2    61.7     3.40     4.00
3.16     NO                    NO
 L0002808         0   0.15232E-03  732850.9 4057676.7    61.6     3.40     4.00
3.16     NO                    NO
 L0002809         0   0.15232E-03  732859.5 4057677.3    61.6     3.40     4.00
3.16     NO                    NO
 L0002810         0   0.15232E-03  732868.1 4057677.9    61.6     3.40     4.00
3.16     NO                    NO
 L0002811         0   0.15232E-03  732876.7 4057678.4    61.5     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0002813         0   0.15232E-03  732893.8 4057679.5    61.5     3.40     4.00
3.16     NO                    NO
 L0002814         0   0.15232E-03  732902.4 4057680.1    61.5     3.40     4.00
3.16     NO                    NO
 L0002815         0   0.15232E-03  732911.0 4057680.7    61.4     3.40     4.00
3.16     NO                    NO
 L0002816         0   0.15232E-03  732919.6 4057681.2    61.4     3.40     4.00
3.16     NO                    NO
 L0002817         0   0.15232E-03  732928.2 4057681.8    61.4     3.40     4.00
3.16     NO                    NO
 L0002818         0   0.15232E-03  732936.8 4057682.4    61.4     3.40     4.00
3.16     NO                    NO
 L0002819         0   0.15232E-03  732945.3 4057682.9    61.3     3.40     4.00
3.16     NO                    NO
 L0002820         0   0.15232E-03  732953.9 4057683.5    61.3     3.40     4.00
3.16     NO                    NO
 L0002821         0   0.15232E-03  732962.5 4057684.1    61.3     3.40     4.00
3.16     NO                    NO
 L0002822         0   0.15232E-03  732971.1 4057684.6    61.2     3.40     4.00
3.16     NO                    NO
 L0002823         0   0.15232E-03  732979.7 4057685.2    61.2     3.40     4.00
3.16     NO                    NO
 L0002824         0   0.15232E-03  732988.2 4057685.8    61.2     3.40     4.00
3.16     NO                    NO
 L0002825         0   0.15232E-03  732996.8 4057686.3    61.2     3.40     4.00
3.16     NO                    NO
 L0002826         0   0.15232E-03  733005.4 4057686.9    61.2     3.40     4.00
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3.16     NO                     NO
 L0002827         0   0.15232E-03  733014.0 4057687.5    61.2     3.40     4.00
3.16     NO                     NO
 L0002828         0   0.15232E-03  733014.7 4057695.2    61.2     3.40     4.00
3.16     NO                     NO
 L0002829         0   0.15232E-03  733014.5 4057703.8    61.1     3.40     4.00
3.16     NO                     NO
 L0002830         0   0.15232E-03  733014.3 4057712.4    61.1     3.40     4.00
3.16     NO                     NO
 L0002831         0   0.15232E-03  733014.1 4057721.0    61.1     3.40     4.00
3.16     NO                     NO
 L0002832         0   0.15232E-03  733013.9 4057729.6    61.1     3.40     4.00
3.16     NO                     NO
 L0002833         0   0.15232E-03  733013.8 4057738.2    61.1     3.40     4.00
3.16     NO                     NO
 L0002834         0   0.15232E-03  733013.6 4057746.8    61.1     3.40     4.00
3.16     NO                     NO
 L0002835         0   0.15232E-03  733013.4 4057755.4    61.1     3.40     4.00
3.16     NO                     NO
 L0002836         0   0.15232E-03  733013.2 4057764.0    61.1     3.40     4.00
3.16     NO                     NO
 L0002837         0   0.15232E-03  733013.0 4057772.6    61.1     3.40     4.00
3.16     NO                     NO
 L0002838         0   0.15232E-03  733012.8 4057781.2    61.1     3.40     4.00
3.16     NO                     NO
 L0002839         0   0.15232E-03  733012.6 4057789.8    61.1     3.40     4.00
3.16     NO                     NO
 L0002840         0   0.15232E-03  733012.4 4057798.4    61.1     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  73
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0002841         0   0.15232E-03  733012.2 4057807.0    61.1     3.40     4.00
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3.16     NO                    NO
 L0002843         0   0.15232E-03  733011.8 4057824.2    61.1     3.40     4.00
3.16     NO                    NO
 L0002844         0   0.15232E-03  733011.7 4057832.8    61.1     3.40     4.00
3.16     NO                    NO
 L0002845         0   0.15232E-03  733011.5 4057841.4    61.1     3.40     4.00
3.16     NO                    NO
 L0002846         0   0.15232E-03  733011.3 4057850.0    61.1     3.40     4.00
3.16     NO                    NO
 L0002847         0   0.15232E-03  733011.1 4057858.6    61.1     3.40     4.00
3.16     NO                    NO
 L0002848         0   0.15232E-03  733010.9 4057867.2    61.1     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0002853         0   0.15232E-03  733009.9 4057910.2    61.0     3.40     4.00
3.16     NO                    NO
 L0002854         0   0.15232E-03  733009.8 4057918.8    61.0     3.40     4.00
3.16     NO                    NO
 L0002855         0   0.15232E-03  733009.6 4057927.4    61.0     3.40     4.00
3.16     NO                    NO
 L0002856         0   0.15232E-03  733009.4 4057936.0    61.0     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0002859         0   0.15232E-03  733008.8 4057961.8    61.0     3.40     4.00
3.16     NO                    NO
 L0002860         0   0.15232E-03  733008.6 4057970.3    61.0     3.40     4.00
3.16     NO                    NO
 L0002861         0   0.15232E-03  733008.4 4057978.9    61.0     3.40     4.00
3.16     NO                    NO
 L0002862         0   0.15232E-03  733008.2 4057987.5    61.0     3.40     4.00
3.16     NO                    NO
 L0002863         0   0.15232E-03  733008.0 4057996.1    61.0     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0002865         0   0.15232E-03  733007.7 4058013.3    61.0     3.40     4.00
3.16     NO                    NO
 L0002866         0   0.15232E-03  733007.5 4058021.9    61.0     3.40     4.00
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3.16 NO NO
L0002867 0 0.15232E-03 733007.3 4058030.5 61.0 3.40 4.00
3.16 NO NO
L0002868 0 0.15232E-03 733007.1 4058039.1 60.9 3.40 4.00
3.16 NO NO
L0002869 0 0.15232E-03 733006.9 4058047.7 60.9 3.40 4.00
3.16 NO NO
L0002870 0 0.15232E-03 733006.7 4058056.3 60.9 3.40 4.00
3.16 NO NO
L0002871 0 0.15232E-03 733006.5 4058064.9 60.9 3.40 4.00
3.16 NO NO
L0002872 0 0.15232E-03 733006.3 4058073.5 60.9 3.40 4.00
3.16 NO NO
L0002873 0 0.15232E-03 733006.1 4058082.1 60.9 3.40 4.00
3.16 NO NO
L0002874 0 0.15232E-03 733005.9 4058090.7 60.9 3.40 4.00
3.16 NO NO
L0002875 0 0.15232E-03 733005.8 4058099.3 60.9 3.40 4.00
3.16 NO NO
L0002876 0 0.15232E-03 733005.6 4058107.9 60.9 3.40 4.00
3.16 NO NO
L0002877 0 0.15232E-03 733005.4 4058116.5 60.9 3.40 4.00
3.16 NO NO
L0002878 0 0.15232E-03 733005.2 4058125.1 60.9 3.40 4.00
3.16 NO NO
L0002879 0 0.15232E-03 733005.0 4058133.7 60.9 3.40 4.00
3.16 NO NO
L0002880 0 0.15232E-03 733004.8 4058142.3 60.9 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT SCALAR VARY BY
L0002881	0	0.15232E-03	733004.6	4058150.9	60.9	3.40	4.00			

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3.16     NO                    NO
 L0002882         0   0.15232E-03  733004.4 4058159.5    60.9     3.40     4.00
3.16     NO                    NO
 L0002883         0   0.15232E-03  733004.2 4058168.1    60.9     3.40     4.00
3.16     NO                    NO
 L0002884         0   0.15232E-03  733004.0 4058176.7    60.9     3.40     4.00
3.16     NO                    NO
 L0002885         0   0.15232E-03  733003.9 4058185.3    60.9     3.40     4.00
3.16     NO                    NO
 L0002886         0   0.15232E-03  733003.7 4058193.9    60.9     3.40     4.00
3.16     NO                    NO
 L0002887         0   0.15232E-03  733003.5 4058202.5    60.9     3.40     4.00
3.16     NO                    NO
 L0002888         0   0.15232E-03  733003.3 4058211.1    60.9     3.40     4.00
3.16     NO                    NO
 L0002889         0   0.15232E-03  733003.1 4058219.7    60.9     3.40     4.00
3.16     NO                    NO
 L0002890         0   0.15232E-03  733002.9 4058228.3    60.9     3.40     4.00
3.16     NO                    NO
 L0002891         0   0.15232E-03  733002.7 4058236.9    60.9     3.40     4.00
3.16     NO                    NO
 L0002892         0   0.15232E-03  733002.5 4058245.5    60.8     3.40     4.00
3.16     NO                    NO
 L0002893         0   0.15232E-03  733002.3 4058254.1    60.8     3.40     4.00
3.16     NO                    NO
 L0002894         0   0.15232E-03  733002.1 4058262.7    60.8     3.40     4.00
3.16     NO                    NO
 L0002895         0   0.15232E-03  733002.0 4058271.3    60.8     3.40     4.00
3.16     NO                    NO
 L0002896         0   0.15232E-03  733001.8 4058279.9    60.8     3.40     4.00
3.16     NO                    NO
 L0002897         0   0.15232E-03  733001.6 4058288.5    60.8     3.40     4.00
3.16     NO                    NO
 L0002898         0   0.15232E-03  733001.4 4058297.1    60.8     3.40     4.00
3.16     NO                    NO
 L0002899         0   0.15232E-03  733001.2 4058305.7    60.8     3.40     4.00
3.16     NO                    NO
 L0002900         0   0.15232E-03  733001.0 4058314.3    60.8     3.40     4.00
3.16     NO                    NO
 L0002901         0   0.15232E-03  733000.8 4058322.9    60.8     3.40     4.00
3.16     NO                    NO
 L0002902         0   0.15232E-03  733000.6 4058331.5    60.8     3.40     4.00
3.16     NO                    NO
 L0002903         0   0.15232E-03  733000.4 4058340.1    60.8     3.40     4.00
3.16     NO                    NO
 L0002904         0   0.15232E-03  733000.2 4058348.7    60.8     3.40     4.00
3.16     NO                    NO
 L0002905         0   0.15232E-03  733000.0 4058357.3    60.8     3.40     4.00
3.16     NO                    NO
 L0002906         0   0.15232E-03  732999.9 4058365.9    60.8     3.40     4.00
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3.16     NO                     NO
 L0002907         0   0.15232E-03  732999.7 4058374.4    60.8     3.40     4.00
3.16     NO                     NO
 L0002908         0   0.15232E-03  732999.5 4058383.0    60.8     3.40     4.00
3.16     NO                     NO
 L0002909         0   0.15232E-03  732999.3 4058391.6    60.8     3.40     4.00
3.16     NO                     NO
 L0002910         0   0.15232E-03  732999.1 4058400.2    60.8     3.40     4.00
3.16     NO                     NO
 L0002911         0   0.15232E-03  732998.9 4058408.8    60.8     3.40     4.00
3.16     NO                     NO
 L0002912         0   0.15232E-03  732998.7 4058417.4    60.8     3.40     4.00
3.16     NO                     NO
 L0002913         0   0.15232E-03  732998.5 4058426.0    60.8     3.40     4.00
3.16     NO                     NO
 L0002914         0   0.15232E-03  732998.3 4058434.6    60.8     3.40     4.00
3.16     NO                     NO
 L0002915         0   0.15232E-03  732998.1 4058443.2    60.8     3.40     4.00
3.16     NO                     NO
 L0002916         0   0.15232E-03  732998.0 4058451.8    60.7     3.40     4.00
3.16     NO                     NO
 L0002917         0   0.15232E-03  732997.8 4058460.4    60.7     3.40     4.00
3.16     NO                     NO
 L0002918         0   0.15232E-03  732997.6 4058469.0    60.8     3.40     4.00
3.16     NO                     NO
 L0002919         0   0.15232E-03  732997.4 4058477.6    60.8     3.40     4.00
3.16     NO                     NO
 L0002920         0   0.15232E-03  732997.2 4058486.2    60.8     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  75
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0002921         0   0.15232E-03  732997.0 4058494.8    60.7     3.40     4.00
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3.16     NO                    NO
 L0002922         0   0.15232E-03  732996.8 4058503.4    60.7     3.40     4.00
3.16     NO                    NO
 L0002923         0   0.15232E-03  732996.6 4058512.0    60.7     3.40     4.00
3.16     NO                    NO
 L0002924         0   0.15232E-03  732996.4 4058520.6    60.7     3.40     4.00
3.16     NO                    NO
 L0002925         0   0.15232E-03  732996.2 4058529.2    60.7     3.40     4.00
3.16     NO                    NO
 L0002926         0   0.15232E-03  732996.0 4058537.8    60.7     3.40     4.00
3.16     NO                    NO
 L0002927         0   0.15232E-03  732995.9 4058546.4    60.7     3.40     4.00
3.16     NO                    NO
 L0002928         0   0.15232E-03  732995.7 4058555.0    60.7     3.40     4.00
3.16     NO                    NO
 L0002929         0   0.15232E-03  732995.5 4058563.6    60.6     3.40     4.00
3.16     NO                    NO
 L0002930         0   0.15232E-03  732995.3 4058572.2    60.6     3.40     4.00
3.16     NO                    NO
 L0002931         0   0.15232E-03  732995.1 4058580.8    60.6     3.40     4.00
3.16     NO                    NO
 L0002932         0   0.15232E-03  732994.9 4058589.4    60.6     3.40     4.00
3.16     NO                    NO
 L0002933         0   0.15232E-03  732994.7 4058598.0    60.6     3.40     4.00
3.16     NO                    NO
 L0002934         0   0.15232E-03  732994.5 4058606.6    60.6     3.40     4.00
3.16     NO                    NO
 L0002935         0   0.15232E-03  732994.3 4058615.2    60.6     3.40     4.00
3.16     NO                    NO
 L0002936         0   0.15232E-03  732994.1 4058623.8    60.6     3.40     4.00
3.16     NO                    NO
 L0002937         0   0.15232E-03  732994.0 4058632.4    60.6     3.40     4.00
3.16     NO                    NO
 L0002938         0   0.15232E-03  732993.8 4058641.0    60.6     3.40     4.00
3.16     NO                    NO
 L0002939         0   0.15232E-03  732993.6 4058649.6    60.6     3.40     4.00
3.16     NO                    NO
 L0002940         0   0.15232E-03  732993.4 4058658.2    60.6     3.40     4.00
3.16     NO                    NO
 L0002941         0   0.15232E-03  732993.2 4058666.8    60.6     3.40     4.00
3.16     NO                    NO
 L0002942         0   0.15232E-03  732993.0 4058675.4    60.6     3.40     4.00
3.16     NO                    NO
 L0002943         0   0.15232E-03  732992.8 4058684.0    60.6     3.40     4.00
3.16     NO                    NO
 L0002944         0   0.15232E-03  732992.6 4058692.6    60.6     3.40     4.00
3.16     NO                    NO
 L0002945         0   0.15232E-03  732992.4 4058701.2    60.6     3.40     4.00
3.16     NO                    NO
 L0002946         0   0.15232E-03  732992.2 4058709.8    60.6     3.40     4.00
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3.16     NO                     NO
 L0002947         0   0.15232E-03  732992.1 4058718.4    60.6     3.40     4.00
3.16     NO                     NO
 L0002948         0   0.15232E-03  732991.9 4058727.0    60.6     3.40     4.00
3.16     NO                     NO
 L0002949         0   0.15232E-03  732991.7 4058735.6    60.6     3.40     4.00
3.16     NO                     NO
 L0002950         0   0.15232E-03  732991.5 4058744.2    60.6     3.40     4.00
3.16     NO                     NO
 L0002951         0   0.15232E-03  732991.3 4058752.8    60.5     3.40     4.00
3.16     NO                     NO
 L0002952         0   0.15232E-03  732991.1 4058761.4    60.5     3.40     4.00
3.16     NO                     NO
 L0002953         0   0.15232E-03  732990.9 4058770.0    60.5     3.40     4.00
3.16     NO                     NO
 L0002954         0   0.15232E-03  732990.7 4058778.5    60.5     3.40     4.00
3.16     NO                     NO
 L0002955         0   0.15232E-03  732990.5 4058787.1    60.5     3.40     4.00
3.16     NO                     NO
 L0002956         0   0.15232E-03  732990.3 4058795.7    60.5     3.40     4.00
3.16     NO                     NO
 L0002957         0   0.15232E-03  732990.1 4058804.3    60.5     3.40     4.00
3.16     NO                     NO
 L0002958         0   0.15232E-03  732990.0 4058812.9    60.5     3.40     4.00
3.16     NO                     NO
 L0002959         0   0.15232E-03  732989.8 4058821.5    60.5     3.40     4.00
3.16     NO                     NO
 L0002960         0   0.15232E-03  732989.6 4058830.1    60.5     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  76
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0002961         0   0.15232E-03  732989.4 4058838.7    60.5     3.40     4.00
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3.16     NO                    NO
 L0002962         0   0.15232E-03  732989.2 4058847.3    60.5     3.40     4.00
3.16     NO                    NO
 L0002963         0   0.15232E-03  732989.0 4058855.9    60.5     3.40     4.00
3.16     NO                    NO
 L0002964         0   0.15232E-03  732988.8 4058864.5    60.5     3.40     4.00
3.16     NO                    NO
 L0002965         0   0.15232E-03  732988.6 4058873.1    60.5     3.40     4.00
3.16     NO                    NO
 L0002966         0   0.15232E-03  732988.4 4058881.7    60.5     3.40     4.00
3.16     NO                    NO
 L0002967         0   0.15232E-03  732988.2 4058890.3    60.4     3.40     4.00
3.16     NO                    NO
 L0002968         0   0.15232E-03  732988.1 4058898.9    60.4     3.40     4.00
3.16     NO                    NO
 L0002969         0   0.15232E-03  732987.9 4058907.5    60.4     3.40     4.00
3.16     NO                    NO
 L0002970         0   0.15232E-03  732987.7 4058916.1    60.4     3.40     4.00
3.16     NO                    NO
 L0002971         0   0.15232E-03  732987.5 4058924.7    60.4     3.40     4.00
3.16     NO                    NO
 L0002972         0   0.15232E-03  732987.3 4058933.3    60.4     3.40     4.00
3.16     NO                    NO
 L0002973         0   0.15232E-03  732987.1 4058941.9    60.4     3.40     4.00
3.16     NO                    NO
 L0002974         0   0.15232E-03  732986.9 4058950.5    60.4     3.40     4.00
3.16     NO                    NO
 L0002975         0   0.15232E-03  732986.7 4058959.1    60.4     3.40     4.00
3.16     NO                    NO
 L0002976         0   0.15232E-03  732986.5 4058967.7    60.4     3.40     4.00
3.16     NO                    NO
 L0002977         0   0.15232E-03  732986.3 4058976.3    60.4     3.40     4.00
3.16     NO                    NO
 L0002978         0   0.15232E-03  732986.2 4058984.9    60.4     3.40     4.00
3.16     NO                    NO
 L0002979         0   0.15232E-03  732986.0 4058993.5    60.4     3.40     4.00
3.16     NO                    NO
 L0002980         0   0.15232E-03  732985.8 4059002.1    60.3     3.40     4.00
3.16     NO                    NO
 L0002981         0   0.15232E-03  732985.6 4059010.7    60.3     3.40     4.00
3.16     NO                    NO
 L0002982         0   0.15232E-03  732985.4 4059019.3    60.3     3.40     4.00
3.16     NO                    NO
 L0002983         0   0.15232E-03  732985.2 4059027.9    60.3     3.40     4.00
3.16     NO                    NO
 L0002984         0   0.15232E-03  732985.0 4059036.5    60.3     3.40     4.00
3.16     NO                    NO
 L0002985         0   0.15232E-03  732984.8 4059045.1    60.3     3.40     4.00
3.16     NO                    NO
 L0002986         0   0.15232E-03  732984.6 4059053.7    60.3     3.40     4.00
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3.16   NO   NO
 L0002987   0   0.15232E-03 732984.4 4059062.3   60.3   3.40   4.00
3.16   NO   NO
 L0002988   0   0.15232E-03 732984.2 4059070.9   60.3   3.40   4.00
3.16   NO   NO
 L0002989   0   0.15232E-03 732984.1 4059079.5   60.3   3.40   4.00
3.16   NO   NO
 L0002990   0   0.15232E-03 732983.9 4059088.1   60.2   3.40   4.00
3.16   NO   NO
 L0002991   0   0.15232E-03 732983.7 4059096.7   60.2   3.40   4.00
3.16   NO   NO
 L0002992   0   0.15232E-03 732983.5 4059105.3   60.2   3.40   4.00
3.16   NO   NO
 L0002993   0   0.15232E-03 732983.3 4059113.9   60.2   3.40   4.00
3.16   NO   NO
 L0002994   0   0.15232E-03 732983.1 4059122.5   60.2   3.40   4.00
3.16   NO   NO
 L0002995   0   0.15232E-03 732982.9 4059131.1   60.2   3.40   4.00
3.16   NO   NO
 L0002996   0   0.15232E-03 732982.7 4059139.7   60.2   3.40   4.00
3.16   NO   NO
 L0002997   0   0.15232E-03 732982.5 4059148.3   60.2   3.40   4.00
3.16   NO   NO
 L0002998   0   0.15232E-03 732982.3 4059156.9   60.2   3.40   4.00
3.16   NO   NO
 L0002999   0   0.15232E-03 732982.2 4059165.5   60.2   3.40   4.00
3.16   NO   NO
 L0003000   0   0.15232E-03 732982.0 4059174.1   60.1   3.40   4.00
3.16   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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 L0003001   0   0.15232E-03 732981.8 4059182.7   60.1   3.40   4.00

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3.16     NO                    NO
 L0003002         0   0.15232E-03  732981.6 4059191.2    60.1     3.40     4.00
3.16     NO                    NO
 L0003003         0   0.15232E-03  732981.4 4059199.8    60.1     3.40     4.00
3.16     NO                    NO
 L0003004         0   0.15232E-03  732981.2 4059208.4    60.1     3.40     4.00
3.16     NO                    NO
 L0003005         0   0.15232E-03  732981.0 4059217.0    60.1     3.40     4.00
3.16     NO                    NO
 L0003006         0   0.15232E-03  732980.8 4059225.6    60.1     3.40     4.00
3.16     NO                    NO
 L0003007         0   0.15232E-03  732980.6 4059234.2    60.1     3.40     4.00
3.16     NO                    NO
 L0003008         0   0.15232E-03  732980.4 4059242.8    60.1     3.40     4.00
3.16     NO                    NO
 L0003009         0   0.15232E-03  732980.2 4059251.4    60.1     3.40     4.00
3.16     NO                    NO
 L0003010         0   0.15232E-03  732980.1 4059260.0    60.1     3.40     4.00
3.16     NO                    NO
 L0003011         0   0.15232E-03  732979.9 4059268.6    60.1     3.40     4.00
3.16     NO                    NO
 L0003012         0   0.15232E-03  732979.7 4059277.2    60.1     3.40     4.00
3.16     NO                    NO
 L0003013         0   0.15232E-03  732979.5 4059285.8    60.1     3.40     4.00
3.16     NO                    NO
 L0003014         0   0.15232E-03  732979.3 4059294.4    60.1     3.40     4.00
3.16     NO                    NO
 L0003015         0   0.15232E-03  732979.1 4059303.0    60.1     3.40     4.00
3.16     NO                    NO
 L0003016         0   0.15232E-03  732978.9 4059311.6    60.1     3.40     4.00
3.16     NO                    NO
 L0003017         0   0.15232E-03  732978.7 4059320.2    60.1     3.40     4.00
3.16     NO                    NO
 L0003018         0   0.15232E-03  732978.5 4059328.8    60.0     3.40     4.00
3.16     NO                    NO
 L0003019         0   0.15232E-03  732978.3 4059337.4    60.0     3.40     4.00
3.16     NO                    NO
 L0003020         0   0.15232E-03  732978.2 4059346.0    60.0     3.40     4.00
3.16     NO                    NO
 L0003021         0   0.15232E-03  732978.0 4059354.6    60.0     3.40     4.00
3.16     NO                    NO
 L0003022         0   0.15232E-03  732977.8 4059363.2    60.0     3.40     4.00
3.16     NO                    NO
 L0003023         0   0.15232E-03  732977.6 4059371.8    60.0     3.40     4.00
3.16     NO                    NO
 L0003024         0   0.15232E-03  732977.4 4059380.4    60.0     3.40     4.00
3.16     NO                    NO
 L0003025         0   0.15232E-03  732977.2 4059389.0    60.0     3.40     4.00
3.16     NO                    NO
 L0003026         0   0.15232E-03  732977.0 4059397.6    60.0     3.40     4.00
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3.16 NO NO
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3.16 NO NO
L0003028 0 0.15232E-03 732976.6 4059414.8 60.0 3.40 4.00
3.16 NO NO
L0003029 0 0.15232E-03 732976.4 4059423.4 60.0 3.40 4.00
3.16 NO NO
L0003030 0 0.15232E-03 732976.3 4059432.0 60.0 3.40 4.00
3.16 NO NO
L0003031 0 0.15232E-03 732976.1 4059440.6 60.0 3.40 4.00
3.16 NO NO
L0003032 0 0.15232E-03 732975.9 4059449.2 60.0 3.40 4.00
3.16 NO NO
L0003033 0 0.15232E-03 732975.7 4059457.8 60.0 3.40 4.00
3.16 NO NO
L0003034 0 0.15232E-03 732975.5 4059466.4 60.0 3.40 4.00
3.16 NO NO
L0003035 0 0.15232E-03 732975.3 4059475.0 60.0 3.40 4.00
3.16 NO NO
L0003036 0 0.15232E-03 732975.1 4059483.6 60.0 3.40 4.00
3.16 NO NO
L0003037 0 0.15232E-03 732974.9 4059492.2 60.0 3.40 4.00
3.16 NO NO
L0003038 0 0.15232E-03 732974.7 4059500.8 60.0 3.40 4.00
3.16 NO NO
L0003039 0 0.15232E-03 732974.5 4059509.4 60.0 3.40 4.00
3.16 NO NO
L0003040 0 0.15232E-03 732974.3 4059518.0 60.0 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT SCALAR VARY BY
L0003041	0	0.15232E-03	732974.2	4059526.6	60.0	3.40	4.00			

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3.16     NO                    NO
 L0003042         0   0.15232E-03  732974.0 4059535.2    60.0     3.40     4.00
3.16     NO                    NO
 L0003043         0   0.15232E-03  732973.8 4059543.8    60.0     3.40     4.00
3.16     NO                    NO
 L0003044         0   0.15232E-03  732973.6 4059552.4    60.0     3.40     4.00
3.16     NO                    NO
 L0003045         0   0.15232E-03  732973.4 4059561.0    60.0     3.40     4.00
3.16     NO                    NO
 L0003046         0   0.15232E-03  732973.2 4059569.6    60.0     3.40     4.00
3.16     NO                    NO
 L0003047         0   0.15232E-03  732973.0 4059578.2    60.0     3.40     4.00
3.16     NO                    NO
 L0003048         0   0.15232E-03  732972.8 4059586.8    60.0     3.40     4.00
3.16     NO                    NO
 L0003049         0   0.15232E-03  732972.6 4059595.3    60.0     3.40     4.00
3.16     NO                    NO
 L0003050         0   0.15232E-03  732972.4 4059603.9    60.0     3.40     4.00
3.16     NO                    NO
 L0003051         0   0.15232E-03  732972.3 4059612.5    60.0     3.40     4.00
3.16     NO                    NO
 L0003052         0   0.15232E-03  732972.1 4059621.1    60.0     3.40     4.00
3.16     NO                    NO
 L0003053         0   0.15232E-03  732971.9 4059629.7    60.0     3.40     4.00
3.16     NO                    NO
 L0003054         0   0.15232E-03  732971.7 4059638.3    59.9     3.40     4.00
3.16     NO                    NO
 L0003055         0   0.15232E-03  732971.5 4059646.9    59.9     3.40     4.00
3.16     NO                    NO
 L0003056         0   0.15232E-03  732971.3 4059655.5    59.9     3.40     4.00
3.16     NO                    NO
 L0003057         0   0.15232E-03  732971.1 4059664.1    59.9     3.40     4.00
3.16     NO                    NO
 L0003058         0   0.15232E-03  732970.9 4059672.7    59.9     3.40     4.00
3.16     NO                    NO
 L0003059         0   0.15232E-03  732970.7 4059681.3    59.9     3.40     4.00
3.16     NO                    NO
 L0003060         0   0.15232E-03  732970.5 4059689.9    59.9     3.40     4.00
3.16     NO                    NO
 L0003061         0   0.15232E-03  732970.4 4059698.5    59.9     3.40     4.00
3.16     NO                    NO
 L0003062         0   0.15232E-03  732970.2 4059707.1    59.9     3.40     4.00
3.16     NO                    NO
 L0003063         0   0.15232E-03  732970.0 4059715.7    59.9     3.40     4.00
3.16     NO                    NO
 L0003064         0   0.15232E-03  732969.8 4059724.3    59.9     3.40     4.00
3.16     NO                    NO
 L0003065         0   0.15232E-03  732969.6 4059732.9    60.0     3.40     4.00
3.16     NO                    NO
 L0003066         0   0.15232E-03  732969.4 4059741.5    60.0     3.40     4.00
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3.16     NO                     NO
 L0003067         0   0.15232E-03  732969.2 4059750.1    60.0     3.40     4.00
3.16     NO                     NO
 L0003068         0   0.15232E-03  732969.0 4059758.7    60.0     3.40     4.00
3.16     NO                     NO
 L0003069         0   0.15232E-03  732968.8 4059767.3    60.0     3.40     4.00
3.16     NO                     NO
 L0003070         0   0.15232E-03  732968.6 4059775.9    60.0     3.40     4.00
3.16     NO                     NO
 L0003071         0   0.15232E-03  732968.4 4059784.5    60.0     3.40     4.00
3.16     NO                     NO
 L0003072         0   0.15232E-03  732968.3 4059793.1    60.0     3.40     4.00
3.16     NO                     NO
 L0003073         0   0.15232E-03  732968.1 4059801.7    60.0     3.40     4.00
3.16     NO                     NO
 L0003074         0   0.15232E-03  732967.9 4059810.3    60.0     3.40     4.00
3.16     NO                     NO
 L0003075         0   0.15232E-03  732967.7 4059818.9    60.0     3.40     4.00
3.16     NO                     NO
 L0003076         0   0.15232E-03  732967.5 4059827.5    60.0     3.40     4.00
3.16     NO                     NO
 L0003077         0   0.15232E-03  732967.3 4059836.1    60.0     3.40     4.00
3.16     NO                     NO
 L0003078         0   0.15232E-03  732967.1 4059844.7    60.0     3.40     4.00
3.16     NO                     NO
 L0003079         0   0.15232E-03  732966.9 4059853.3    59.9     3.40     4.00
3.16     NO                     NO
 L0003080         0   0.15232E-03  732966.7 4059861.9    59.9     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  79
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0003081         0   0.15232E-03  732966.5 4059870.5    59.9     3.40     4.00
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3.16     NO                    NO
 L0003082         0   0.15232E-03  732966.4 4059879.1    59.9     3.40     4.00
3.16     NO                    NO
 L0003083         0   0.15232E-03  732966.2 4059887.7    59.9     3.40     4.00
3.16     NO                    NO
 L0003084         0   0.15232E-03  732966.0 4059896.3    59.9     3.40     4.00
3.16     NO                    NO
 L0003085         0   0.15232E-03  732965.8 4059904.9    59.9     3.40     4.00
3.16     NO                    NO
 L0003086         0   0.15232E-03  732965.6 4059913.5    59.9     3.40     4.00
3.16     NO                    NO
 L0003087         0   0.15232E-03  732965.4 4059922.1    59.9     3.40     4.00
3.16     NO                    NO
 L0003088         0   0.15232E-03  732965.2 4059930.7    59.9     3.40     4.00
3.16     NO                    NO
 L0003089         0   0.15232E-03  732965.0 4059939.3    59.9     3.40     4.00
3.16     NO                    NO
 L0003090         0   0.15232E-03  732964.8 4059947.9    59.9     3.40     4.00
3.16     NO                    NO
 L0003091         0   0.15232E-03  732964.6 4059956.5    59.9     3.40     4.00
3.16     NO                    NO
 L0003092         0   0.15232E-03  732964.5 4059965.1    59.9     3.40     4.00
3.16     NO                    NO
 L0003093         0   0.15232E-03  732964.3 4059973.7    59.9     3.40     4.00
3.16     NO                    NO
 L0003094         0   0.15232E-03  732964.1 4059982.3    59.9     3.40     4.00
3.16     NO                    NO
 L0003095         0   0.15232E-03  732963.9 4059990.9    59.9     3.40     4.00
3.16     NO                    NO
 L0003096         0   0.15232E-03  732963.7 4059999.5    59.9     3.40     4.00
3.16     NO                    NO
 L0003097         0   0.15232E-03  732963.5 4060008.0    59.9     3.40     4.00
3.16     NO                    NO
 L0003098         0   0.15232E-03  732963.3 4060016.6    59.9     3.40     4.00
3.16     NO                    NO
 L0003099         0   0.15232E-03  732963.1 4060025.2    59.9     3.40     4.00
3.16     NO                    NO
 L0003100         0   0.15232E-03  732962.9 4060033.8    59.9     3.40     4.00
3.16     NO                    NO
 L0003101         0   0.15232E-03  732956.2 4060035.6    59.9     3.40     4.00
3.16     NO                    NO
 L0003102         0   0.15232E-03  732947.6 4060035.3    60.0     3.40     4.00
3.16     NO                    NO
 L0003103         0   0.15232E-03  732939.0 4060035.1    60.0     3.40     4.00
3.16     NO                    NO
 L0003104         0   0.15232E-03  732930.4 4060034.9    60.0     3.40     4.00
3.16     NO                    NO
 L0003105         0   0.15232E-03  732921.8 4060034.7    60.0     3.40     4.00
3.16     NO                    NO
 L0003106         0   0.15232E-03  732913.2 4060034.4    60.0     3.40     4.00
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3.16     NO                     NO
 L0003107         0   0.15232E-03  732904.6 4060034.2    60.1     3.40     4.00
3.16     NO                     NO
 L0003108         0   0.15232E-03  732896.0 4060034.0    60.1     3.40     4.00
3.16     NO                     NO
 L0003109         0   0.15232E-03  732887.4 4060033.7    60.1     3.40     4.00
3.16     NO                     NO
 L0003110         0   0.15232E-03  732878.8 4060033.5    60.1     3.40     4.00
3.16     NO                     NO
 L0003111         0   0.15232E-03  732870.2 4060033.3    60.1     3.40     4.00
3.16     NO                     NO
 L0003112         0   0.15232E-03  732861.6 4060033.1    60.1     3.40     4.00
3.16     NO                     NO
 L0003113         0   0.15232E-03  732853.0 4060032.8    60.2     3.40     4.00
3.16     NO                     NO
 L0003114         0   0.15232E-03  732844.4 4060032.6    60.2     3.40     4.00
3.16     NO                     NO
 L0003115         0   0.15232E-03  732835.8 4060032.4    60.2     3.40     4.00
3.16     NO                     NO
 L0003116         0   0.15232E-03  732827.2 4060032.1    60.2     3.40     4.00
3.16     NO                     NO
 L0003117         0   0.15232E-03  732818.6 4060031.9    60.2     3.40     4.00
3.16     NO                     NO
 L0003118         0   0.15232E-03  732810.1 4060031.7    60.2     3.40     4.00
3.16     NO                     NO
 L0003119         0   0.15232E-03  732801.5 4060031.4    60.2     3.40     4.00
3.16     NO                     NO
 L0003120         0   0.15232E-03  732792.9 4060031.2    60.3     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  80
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0003121         0   0.15232E-03  732784.3 4060031.0    60.3     3.40     4.00
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3.16     NO                    NO
 L0003122         0   0.15232E-03  732775.7 4060030.8    60.3     3.40     4.00
3.16     NO                    NO
 L0003123         0   0.15232E-03  732767.1 4060030.5    60.3     3.40     4.00
3.16     NO                    NO
 L0003124         0   0.15232E-03  732758.5 4060030.3    60.3     3.40     4.00
3.16     NO                    NO
 L0003125         0   0.15232E-03  732749.9 4060030.1    60.4     3.40     4.00
3.16     NO                    NO
 L0003126         0   0.15232E-03  732741.3 4060029.8    60.4     3.40     4.00
3.16     NO                    NO
 L0003127         0   0.15232E-03  732732.7 4060029.6    60.4     3.40     4.00
3.16     NO                    NO
 L0003128         0   0.15232E-03  732724.1 4060029.4    60.5     3.40     4.00
3.16     NO                    NO
 L0003129         0   0.15232E-03  732715.5 4060029.2    60.5     3.40     4.00
3.16     NO                    NO
 L0003130         0   0.15232E-03  732706.9 4060028.9    60.5     3.40     4.00
3.16     NO                    NO
 L0003131         0   0.15232E-03  732698.3 4060028.7    60.6     3.40     4.00
3.16     NO                    NO
 L0003132         0   0.15232E-03  732689.7 4060028.5    60.6     3.40     4.00
3.16     NO                    NO
 L0003133         0   0.15232E-03  732681.1 4060028.2    60.6     3.40     4.00
3.16     NO                    NO
 L0003134         0   0.15232E-03  732672.5 4060028.0    60.6     3.40     4.00
3.16     NO                    NO
 L0003135         0   0.15232E-03  732663.9 4060027.8    60.6     3.40     4.00
3.16     NO                    NO
 L0003136         0   0.15232E-03  732655.3 4060027.6    60.7     3.40     4.00
3.16     NO                    NO
 L0003137         0   0.15232E-03  732646.7 4060027.3    60.7     3.40     4.00
3.16     NO                    NO
 L0003138         0   0.15232E-03  732638.1 4060027.1    60.7     3.40     4.00
3.16     NO                    NO
 L0003139         0   0.15232E-03  732629.5 4060026.9    60.8     3.40     4.00
3.16     NO                    NO
 L0003140         0   0.15232E-03  732620.9 4060026.6    60.8     3.40     4.00
3.16     NO                    NO
 L0003141         0   0.15232E-03  732612.3 4060026.4    60.8     3.40     4.00
3.16     NO                    NO
 L0003142         0   0.15232E-03  732603.7 4060026.2    60.9     3.40     4.00
3.16     NO                    NO
 L0003143         0   0.15232E-03  732595.1 4060025.9    60.9     3.40     4.00
3.16     NO                    NO
 L0003144         0   0.15232E-03  732586.5 4060025.7    60.9     3.40     4.00
3.16     NO                    NO
 L0003145         0   0.15232E-03  732577.9 4060025.5    61.0     3.40     4.00
3.16     NO                    NO
 L0003146         0   0.15232E-03  732569.3 4060025.3    61.0     3.40     4.00
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3.16 NO NO
L0003147 0 0.15232E-03 732560.7 4060025.0 61.0 3.40 4.00
3.16 NO NO
L0003148 0 0.15232E-03 732552.1 4060024.8 61.1 3.40 4.00
3.16 NO NO
L0003149 0 0.15232E-03 732543.5 4060024.6 61.1 3.40 4.00
3.16 NO NO
L0003150 0 0.15232E-03 732535.0 4060024.3 61.1 3.40 4.00
3.16 NO NO
L0003151 0 0.15232E-03 732526.4 4060024.1 61.1 3.40 4.00
3.16 NO NO
L0003152 0 0.15232E-03 732517.8 4060023.9 61.1 3.40 4.00
3.16 NO NO
L0003153 0 0.15232E-03 732509.2 4060023.7 61.1 3.40 4.00
3.16 NO NO
L0003154 0 0.15232E-03 732500.6 4060023.4 61.2 3.40 4.00
3.16 NO NO
L0003155 0 0.15232E-03 732492.0 4060023.2 61.2 3.40 4.00
3.16 NO NO
L0003156 0 0.15232E-03 732483.4 4060023.0 61.2 3.40 4.00
3.16 NO NO
L0003157 0 0.15232E-03 732474.8 4060022.7 61.3 3.40 4.00
3.16 NO NO
L0003158 0 0.15232E-03 732466.2 4060022.5 61.3 3.40 4.00
3.16 NO NO
L0003159 0 0.15232E-03 732457.6 4060022.3 61.3 3.40 4.00
3.16 NO NO
L0003160 0 0.15232E-03 732449.0 4060022.1 61.3 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE SCALAR VARY BY	AIRCRAFT
L0003161	0	0.15232E-03	732440.4	4060021.8	61.3	3.40	4.00			

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3.16     NO                    NO
 L0003162         0   0.15232E-03  732431.8 4060021.6    61.4     3.40     4.00
3.16     NO                    NO
 L0003163         0   0.15232E-03  732423.2 4060021.4    61.4     3.40     4.00
3.16     NO                    NO
 L0003164         0   0.15232E-03  732414.6 4060021.1    61.4     3.40     4.00
3.16     NO                    NO
 L0003165         0   0.15232E-03  732406.0 4060020.9    61.4     3.40     4.00
3.16     NO                    NO
 L0003166         0   0.15232E-03  732397.4 4060020.7    61.4     3.40     4.00
3.16     NO                    NO
 L0003167         0   0.15232E-03  732388.8 4060020.4    61.5     3.40     4.00
3.16     NO                    NO
 L0003168         0   0.15232E-03  732380.2 4060020.2    61.5     3.40     4.00
3.16     NO                    NO
 L0003169         0   0.15232E-03  732371.6 4060020.0    61.5     3.40     4.00
3.16     NO                    NO
 L0003170         0   0.15232E-03  732363.0 4060019.8    61.5     3.40     4.00
3.16     NO                    NO
 L0003171         0   0.15232E-03  732354.4 4060019.5    61.6     3.40     4.00
3.16     NO                    NO
 L0003172         0   0.15232E-03  732345.8 4060019.3    61.6     3.40     4.00
3.16     NO                    NO
 L0003173         0   0.15232E-03  732337.2 4060019.1    61.6     3.40     4.00
3.16     NO                    NO
 L0003174         0   0.15232E-03  732328.6 4060018.8    61.6     3.40     4.00
3.16     NO                    NO
 L0003175         0   0.15232E-03  732320.0 4060018.6    61.7     3.40     4.00
3.16     NO                    NO
 L0003176         0   0.15232E-03  732311.4 4060018.4    61.7     3.40     4.00
3.16     NO                    NO
 L0003177         0   0.15232E-03  732302.8 4060018.2    61.7     3.40     4.00
3.16     NO                    NO
 L0003178         0   0.15232E-03  732294.2 4060017.9    61.7     3.40     4.00
3.16     NO                    NO
 L0003179         0   0.15232E-03  732285.6 4060017.7    61.8     3.40     4.00
3.16     NO                    NO
 L0003180         0   0.15232E-03  732277.0 4060017.5    61.8     3.40     4.00
3.16     NO                    NO
 L0003181         0   0.15232E-03  732268.4 4060017.2    61.8     3.40     4.00
3.16     NO                    NO
 L0003182         0   0.15232E-03  732259.8 4060017.0    61.8     3.40     4.00
3.16     NO                    NO
 L0003183         0   0.15232E-03  732251.3 4060016.8    61.9     3.40     4.00
3.16     NO                    NO
 L0003184         0   0.15232E-03  732242.7 4060016.5    61.9     3.40     4.00
3.16     NO                    NO
 L0003185         0   0.15232E-03  732234.1 4060016.3    61.9     3.40     4.00
3.16     NO                    NO
 L0003186         0   0.15232E-03  732225.5 4060016.1    61.9     3.40     4.00
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3.16 NO NO
L0003187 0 0.15232E-03 732216.9 4060015.9 61.9 3.40 4.00
3.16 NO NO
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3.16 NO NO
L0003189 0 0.15232E-03 732199.7 4060015.4 62.0 3.40 4.00
3.16 NO NO
L0003190 0 0.15232E-03 732191.1 4060015.2 62.0 3.40 4.00
3.16 NO NO
L0003191 0 0.15232E-03 732182.5 4060014.9 62.1 3.40 4.00
3.16 NO NO
L0003192 0 0.15232E-03 732173.9 4060014.7 62.1 3.40 4.00
3.16 NO NO
L0003193 0 0.15232E-03 732165.3 4060014.5 62.1 3.40 4.00
3.16 NO NO
L0003194 0 0.15232E-03 732156.7 4060014.3 62.2 3.40 4.00
3.16 NO NO
L0003195 0 0.15232E-03 732148.1 4060014.0 62.2 3.40 4.00
3.16 NO NO
L0003196 0 0.15232E-03 732139.5 4060013.8 62.2 3.40 4.00
3.16 NO NO
L0003197 0 0.15232E-03 732130.9 4060013.6 62.3 3.40 4.00
3.16 NO NO
L0003198 0 0.15232E-03 732122.3 4060013.3 62.3 3.40 4.00
3.16 NO NO
L0003199 0 0.15232E-03 732113.7 4060013.1 62.3 3.40 4.00
3.16 NO NO
L0003200 0 0.15232E-03 732105.1 4060012.9 62.3 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	EMISSION RATE SCALAR VARY	AIRCRAFT
L0003201	0	0.15232E-03	732096.5	4060012.7	62.4	3.40	4.00				

```
3.16     NO                    NO
 L0003202         0   0.15232E-03  732087.9 4060012.4    62.4     3.40     4.00
3.16     NO                    NO
 L0003203         0   0.15232E-03  732079.3 4060012.2    62.4     3.40     4.00
3.16     NO                    NO
 L0003204         0   0.15232E-03  732070.7 4060012.0    62.5     3.40     4.00
3.16     NO                    NO
 L0003205         0   0.15232E-03  732062.1 4060011.7    62.5     3.40     4.00
3.16     NO                    NO
 L0003206         0   0.15232E-03  732053.5 4060011.5    62.5     3.40     4.00
3.16     NO                    NO
 L0003207         0   0.15232E-03  732044.9 4060011.3    62.5     3.40     4.00
3.16     NO                    NO
 L0003208         0   0.15232E-03  732036.3 4060011.0    62.6     3.40     4.00
3.16     NO                    NO
 L0003209         0   0.15232E-03  732027.7 4060010.8    62.6     3.40     4.00
3.16     NO                    NO
 L0003210         0   0.15232E-03  732019.1 4060010.6    62.6     3.40     4.00
3.16     NO                    NO
 L0003211         0   0.15232E-03  732010.5 4060010.4    62.7     3.40     4.00
3.16     NO                    NO
 L0003212         0   0.15232E-03  732001.9 4060010.1    62.7     3.40     4.00
3.16     NO                    NO
 L0003213         0   0.15232E-03  731993.3 4060009.9    62.7     3.40     4.00
3.16     NO                    NO
 L0003214         0   0.15232E-03  731984.7 4060009.7    62.8     3.40     4.00
3.16     NO                    NO
 L0003215         0   0.15232E-03  731976.1 4060009.4    62.8     3.40     4.00
3.16     NO                    NO
 L0003216         0   0.15232E-03  731967.6 4060009.2    62.8     3.40     4.00
3.16     NO                    NO
 L0003217         0   0.15232E-03  731959.0 4060009.0    62.9     3.40     4.00
3.16     NO                    NO
 L0003218         0   0.15232E-03  731950.4 4060008.8    62.9     3.40     4.00
3.16     NO                    NO
 L0003219         0   0.15232E-03  731941.8 4060008.5    62.9     3.40     4.00
3.16     NO                    NO
 L0003220         0   0.15232E-03  731933.2 4060008.3    63.0     3.40     4.00
3.16     NO                    NO
 L0003221         0   0.15232E-03  731924.6 4060008.1    63.0     3.40     4.00
3.16     NO                    NO
 L0003222         0   0.15232E-03  731916.0 4060007.8    63.0     3.40     4.00
3.16     NO                    NO
 L0003223         0   0.15232E-03  731907.4 4060007.6    63.0     3.40     4.00
3.16     NO                    NO
 L0003224         0   0.15232E-03  731898.8 4060007.4    63.0     3.40     4.00
3.16     NO                    NO
 L0003225         0   0.15232E-03  731890.2 4060007.1    63.0     3.40     4.00
3.16     NO                    NO
 L0003226         0   0.15232E-03  731881.6 4060006.9    63.1     3.40     4.00
```

3.16   NO   NO
 L0003227   0   0.15232E-03 731873.0 4060006.7   63.1   3.40   4.00
3.16   NO   NO
 L0003228   0   0.15232E-03 731864.4 4060006.5   63.1   3.40   4.00
3.16   NO   NO
 L0003229   0   0.15232E-03 731855.8 4060006.2   63.2   3.40   4.00
3.16   NO   NO
 L0003230   0   0.15232E-03 731847.2 4060006.0   63.2   3.40   4.00
3.16   NO   NO
 L0003231   0   0.15232E-03 731838.6 4060005.8   63.2   3.40   4.00
3.16   NO   NO
 L0003232   0   0.15232E-03 731830.0 4060005.5   63.3   3.40   4.00
3.16   NO   NO
 L0003233   0   0.15232E-03 731821.4 4060005.3   63.3   3.40   4.00
3.16   NO   NO
 L0003234   0   0.15232E-03 731812.8 4060005.1   63.3   3.40   4.00
3.16   NO   NO
 L0003235   0   0.15232E-03 731804.2 4060004.9   63.3   3.40   4.00
3.16   NO   NO
 L0003236   0   0.15232E-03 731795.6 4060004.6   63.3   3.40   4.00
3.16   NO   NO
 L0003237   0   0.15232E-03 731787.0 4060004.4   63.4   3.40   4.00
3.16   NO   NO
 L0003238   0   0.15232E-03 731778.4 4060004.2   63.4   3.40   4.00
3.16   NO   NO
 L0003239   0   0.15232E-03 731769.8 4060003.9   63.4   3.40   4.00
3.16   NO   NO
 L0003240   0   0.15232E-03 731761.2 4060003.7   63.5   3.40   4.00
3.16   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

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

 L0003241   0   0.15232E-03 731752.6 4060003.5   63.5   3.40   4.00

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3.16     NO                    NO
 L0003242         0   0.15232E-03  731744.0 4060003.3    63.6     3.40     4.00
3.16     NO                    NO
 L0003243         0   0.15232E-03  731735.4 4060003.0    63.6     3.40     4.00
3.16     NO                    NO
 L0003244         0   0.15232E-03  731726.8 4060002.8    63.7     3.40     4.00
3.16     NO                    NO
 L0003245         0   0.15232E-03  731718.2 4060002.6    63.7     3.40     4.00
3.16     NO                    NO
 L0003246         0   0.15232E-03  731709.6 4060002.3    63.8     3.40     4.00
3.16     NO                    NO
 L0003247         0   0.15232E-03  731701.0 4060002.1    63.8     3.40     4.00
3.16     NO                    NO
 L0003248         0   0.15232E-03  731692.4 4060001.9    63.8     3.40     4.00
3.16     NO                    NO
 L0003249         0   0.15232E-03  731683.9 4060001.6    63.9     3.40     4.00
3.16     NO                    NO
 L0003250         0   0.15232E-03  731675.3 4060001.4    63.9     3.40     4.00
3.16     NO                    NO
 L0003251         0   0.15232E-03  731666.7 4060001.2    64.0     3.40     4.00
3.16     NO                    NO
 L0003252         0   0.15232E-03  731663.3 4059996.0    64.0     3.40     4.00
3.16     NO                    NO
 L0003253         0   0.15232E-03  731663.7 4059987.4    64.0     3.40     4.00
3.16     NO                    NO
 L0003254         0   0.15232E-03  731664.0 4059978.9    64.0     3.40     4.00
3.16     NO                    NO
 L0003255         0   0.15232E-03  731664.4 4059970.3    64.0     3.40     4.00
3.16     NO                    NO
 L0003256         0   0.15232E-03  731664.8 4059961.7    64.0     3.40     4.00
3.16     NO                    NO
 L0003257         0   0.15232E-03  731665.1 4059953.1    63.9     3.40     4.00
3.16     NO                    NO
 L0003258         0   0.15232E-03  731665.5 4059944.5    63.9     3.40     4.00
3.16     NO                    NO
 L0003259         0   0.15232E-03  731665.8 4059935.9    63.9     3.40     4.00
3.16     NO                    NO
 L0003260         0   0.15232E-03  731666.2 4059927.3    63.8     3.40     4.00
3.16     NO                    NO
 L0003261         0   0.15232E-03  731666.6 4059918.7    63.8     3.40     4.00
3.16     NO                    NO
 L0003262         0   0.15232E-03  731666.9 4059910.1    63.8     3.40     4.00
3.16     NO                    NO
 L0003263         0   0.15232E-03  731667.3 4059901.5    63.8     3.40     4.00
3.16     NO                    NO
 L0003264         0   0.15232E-03  731667.6 4059892.9    63.8     3.40     4.00
3.16     NO                    NO
 L0003265         0   0.15232E-03  731668.0 4059884.3    63.8     3.40     4.00
3.16     NO                    NO
 L0003266         0   0.15232E-03  731668.3 4059875.7    63.8     3.40     4.00
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3.16   NO   NO
 L0003267   0   0.15232E-03 731668.7 4059867.2   63.8   3.40   4.00
3.16   NO   NO
 L0003268   0   0.15232E-03 731669.1 4059858.6   63.8   3.40   4.00
3.16   NO   NO
 L0003269   0   0.15232E-03 731669.4 4059850.0   63.8   3.40   4.00
3.16   NO   NO
 L0003270   0   0.15232E-03 731669.8 4059841.4   63.8   3.40   4.00
3.16   NO   NO
 L0003271   0   0.15232E-03 731670.1 4059832.8   63.8   3.40   4.00
3.16   NO   NO
 L0003272   0   0.15232E-03 731670.5 4059824.2   63.8   3.40   4.00
3.16   NO   NO
 L0003273   0   0.15232E-03 731670.8 4059815.6   63.8   3.40   4.00
3.16   NO   NO
 L0003274   0   0.15232E-03 731671.2 4059807.0   63.8   3.40   4.00
3.16   NO   NO
 L0003275   0   0.15232E-03 731671.6 4059798.4   63.8   3.40   4.00
3.16   NO   NO
 L0003276   0   0.15232E-03 731671.9 4059789.8   63.7   3.40   4.00
3.16   NO   NO
 L0003277   0   0.15232E-03 731672.3 4059781.2   63.7   3.40   4.00
3.16   NO   NO
 L0003278   0   0.15232E-03 731672.6 4059772.6   63.7   3.40   4.00
3.16   NO   NO
 L0003279   0   0.15232E-03 731673.0 4059764.0   63.7   3.40   4.00
3.16   NO   NO
 L0003280   0   0.15232E-03 731673.4 4059755.4   63.7   3.40   4.00
3.16   NO   NO

                                                    *** VOLUME SOURCE DATA ***

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

 L0003281   0   0.15232E-03 731673.7 4059746.9   63.7   3.40   4.00

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3.16     NO                    NO
 L0003282         0   0.15232E-03  731674.1 4059738.3    63.7     3.40     4.00
3.16     NO                    NO
 L0003283         0   0.15232E-03  731674.4 4059729.7    63.7     3.40     4.00
3.16     NO                    NO
 L0003284         0   0.15232E-03  731674.8 4059721.1    63.7     3.40     4.00
3.16     NO                    NO
 L0003285         0   0.15232E-03  731675.1 4059712.5    63.7     3.40     4.00
3.16     NO                    NO
 L0003286         0   0.15232E-03  731675.5 4059703.9    63.7     3.40     4.00
3.16     NO                    NO
 L0003287         0   0.15232E-03  731675.9 4059695.3    63.7     3.40     4.00
3.16     NO                    NO
 L0003288         0   0.15232E-03  731676.2 4059686.7    63.7     3.40     4.00
3.16     NO                    NO
 L0003289         0   0.15232E-03  731676.6 4059678.1    63.6     3.40     4.00
3.16     NO                    NO
 L0003290         0   0.15232E-03  731676.9 4059669.5    63.6     3.40     4.00
3.16     NO                    NO
 L0003291         0   0.15232E-03  731677.3 4059660.9    63.6     3.40     4.00
3.16     NO                    NO
 L0003292         0   0.15232E-03  731677.7 4059652.3    63.6     3.40     4.00
3.16     NO                    NO
 L0003293         0   0.15232E-03  731678.0 4059643.7    63.6     3.40     4.00
3.16     NO                    NO
 L0003294         0   0.15232E-03  731678.4 4059635.2    63.6     3.40     4.00
3.16     NO                    NO
 L0003295         0   0.15232E-03  731678.7 4059626.6    63.6     3.40     4.00
3.16     NO                    NO
 L0003296         0   0.15232E-03  731679.1 4059618.0    63.6     3.40     4.00
3.16     NO                    NO
 L0003297         0   0.15232E-03  731679.4 4059609.4    63.6     3.40     4.00
3.16     NO                    NO
 L0003298         0   0.15232E-03  731679.8 4059600.8    63.6     3.40     4.00
3.16     NO                    NO
 L0003299         0   0.15232E-03  731680.2 4059592.2    63.6     3.40     4.00
3.16     NO                    NO
 L0003300         0   0.15232E-03  731680.5 4059583.6    63.6     3.40     4.00
3.16     NO                    NO
 L0003301         0   0.15232E-03  731680.9 4059575.0    63.6     3.40     4.00
3.16     NO                    NO
 L0003302         0   0.15232E-03  731681.2 4059566.4    63.6     3.40     4.00
3.16     NO                    NO
 L0003303         0   0.15232E-03  731681.6 4059557.8    63.6     3.40     4.00
3.16     NO                    NO
 L0003304         0   0.15232E-03  731681.9 4059549.2    63.6     3.40     4.00
3.16     NO                    NO
 L0003305         0   0.15232E-03  731682.3 4059540.6    63.6     3.40     4.00
3.16     NO                    NO
 L0003306         0   0.15232E-03  731682.7 4059532.0    63.6     3.40     4.00
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3.16 NO NO
L0003307 0 0.15232E-03 731683.0 4059523.4 63.6 3.40 4.00
3.16 NO NO
L0003308 0 0.15232E-03 731683.4 4059514.9 63.6 3.40 4.00
3.16 NO NO
L0003309 0 0.15232E-03 731683.7 4059506.3 63.6 3.40 4.00
3.16 NO NO
L0003310 0 0.15232E-03 731684.1 4059497.7 63.6 3.40 4.00
3.16 NO NO
L0003311 0 0.15232E-03 731684.5 4059489.1 63.6 3.40 4.00
3.16 NO NO
L0003312 0 0.15232E-03 731684.8 4059480.5 63.6 3.40 4.00
3.16 NO NO
L0003313 0 0.15232E-03 731685.2 4059471.9 63.6 3.40 4.00
3.16 NO NO
L0003314 0 0.15232E-03 731685.5 4059463.3 63.6 3.40 4.00
3.16 NO NO
L0003315 0 0.15232E-03 731685.9 4059454.7 63.6 3.40 4.00
3.16 NO NO
L0003316 0 0.15232E-03 731686.2 4059446.1 63.6 3.40 4.00
3.16 NO NO
L0003317 0 0.15232E-03 731686.6 4059437.5 63.6 3.40 4.00
3.16 NO NO
L0003318 0 0.15232E-03 731687.0 4059428.9 63.6 3.40 4.00
3.16 NO NO
L0003319 0 0.15232E-03 731687.3 4059420.3 63.6 3.40 4.00
3.16 NO NO
L0003320 0 0.15232E-03 731687.7 4059411.7 63.6 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT EMISSION RATE SCALAR VARY
L0003321	0	0.15232E-03	731688.0	4059403.2	63.6	3.40	4.00			

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3.16     NO                    NO
 L0003322         0   0.15232E-03  731688.4 4059394.6    63.6     3.40     4.00
3.16     NO                    NO
 L0003323         0   0.15232E-03  731688.7 4059386.0    63.6     3.40     4.00
3.16     NO                    NO
 L0003324         0   0.15232E-03  731689.1 4059377.4    63.6     3.40     4.00
3.16     NO                    NO
 L0003325         0   0.15232E-03  731697.5 4059377.4    63.6     3.40     4.00
3.16     NO                    NO
 L0003326         0   0.15232E-03  731706.1 4059377.6    63.6     3.40     4.00
3.16     NO                    NO
 L0003327         0   0.15232E-03  731714.7 4059377.8    63.6     3.40     4.00
3.16     NO                    NO
 L0003328         0   0.15232E-03  731723.3 4059378.0    63.5     3.40     4.00
3.16     NO                    NO
 L0003329         0   0.15232E-03  731731.9 4059378.1    63.5     3.40     4.00
3.16     NO                    NO
 L0003330         0   0.15232E-03  731740.5 4059378.3    63.5     3.40     4.00
3.16     NO                    NO
 L0003331         0   0.15232E-03  731749.1 4059378.5    63.5     3.40     4.00
3.16     NO                    NO
 L0003332         0   0.15232E-03  731757.7 4059378.7    63.4     3.40     4.00
3.16     NO                    NO
 L0003333         0   0.15232E-03  731766.3 4059378.9    63.4     3.40     4.00
3.16     NO                    NO
 L0003334         0   0.15232E-03  731774.9 4059379.1    63.4     3.40     4.00
3.16     NO                    NO
 L0003335         0   0.15232E-03  731783.5 4059379.3    63.4     3.40     4.00
3.16     NO                    NO
 L0003336         0   0.15232E-03  731792.1 4059379.4    63.4     3.40     4.00
3.16     NO                    NO
 L0003337         0   0.15232E-03  731800.7 4059379.6    63.4     3.40     4.00
3.16     NO                    NO
 L0003338         0   0.15232E-03  731809.3 4059379.8    63.3     3.40     4.00
3.16     NO                    NO
 L0003339         0   0.15232E-03  731817.9 4059380.0    63.3     3.40     4.00
3.16     NO                    NO
 L0003340         0   0.15232E-03  731826.5 4059380.2    63.3     3.40     4.00
3.16     NO                    NO
 L0003341         0   0.15232E-03  731835.1 4059380.4    63.2     3.40     4.00
3.16     NO                    NO
 L0003342         0   0.15232E-03  731843.7 4059380.6    63.2     3.40     4.00
3.16     NO                    NO
 L0003343         0   0.15232E-03  731852.3 4059380.8    63.2     3.40     4.00
3.16     NO                    NO
 L0003344         0   0.15232E-03  731860.9 4059380.9    63.2     3.40     4.00
3.16     NO                    NO
 L0003345         0   0.15232E-03  731869.5 4059381.1    63.1     3.40     4.00
3.16     NO                    NO
 L0003346         0   0.15232E-03  731878.1 4059381.3    63.1     3.40     4.00
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3.16     NO                     NO
 L0003347         0   0.15232E-03  731886.7 4059381.5    63.1     3.40     4.00
3.16     NO                     NO
 L0003348         0   0.15232E-03  731895.3 4059381.7    63.1     3.40     4.00
3.16     NO                     NO
 L0003349         0   0.15232E-03  731903.9 4059381.9    63.0     3.40     4.00
3.16     NO                     NO
 L0003350         0   0.15232E-03  731912.5 4059382.1    63.0     3.40     4.00
3.16     NO                     NO
 L0003351         0   0.15232E-03  731921.1 4059382.2    63.0     3.40     4.00
3.16     NO                     NO
 L0003352         0   0.15232E-03  731929.7 4059382.4    62.9     3.40     4.00
3.16     NO                     NO
 L0003353         0   0.15232E-03  731938.3 4059382.6    62.9     3.40     4.00
3.16     NO                     NO
 L0003354         0   0.15232E-03  731946.9 4059382.8    62.9     3.40     4.00
3.16     NO                     NO
 L0003355         0   0.15232E-03  731955.5 4059383.0    62.8     3.40     4.00
3.16     NO                     NO
 L0003356         0   0.15232E-03  731964.1 4059383.2    62.8     3.40     4.00
3.16     NO                     NO
 L0003357         0   0.15232E-03  731972.7 4059383.4    62.8     3.40     4.00
3.16     NO                     NO
 L0003358         0   0.15232E-03  731981.3 4059383.6    62.7     3.40     4.00
3.16     NO                     NO
 L0003359         0   0.15232E-03  731989.9 4059383.7    62.7     3.40     4.00
3.16     NO                     NO
 L0003360         0   0.15232E-03  731998.5 4059383.9    62.7     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  86
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0003361         0   0.15232E-03  732007.1 4059384.1    62.6     3.40     4.00
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3.16     NO                    NO
 L0003362         0   0.15232E-03  732015.7 4059384.3    62.6     3.40     4.00
3.16     NO                    NO
 L0003363         0   0.15232E-03  732024.3 4059384.5    62.6     3.40     4.00
3.16     NO                    NO
 L0003364         0   0.15232E-03  732032.9 4059384.7    62.5     3.40     4.00
3.16     NO                    NO
 L0003365         0   0.15232E-03  732041.5 4059384.9    62.5     3.40     4.00
3.16     NO                    NO
 L0003366         0   0.15232E-03  732050.1 4059385.1    62.5     3.40     4.00
3.16     NO                    NO
 L0003367         0   0.15232E-03  732058.7 4059385.2    62.4     3.40     4.00
3.16     NO                    NO
 L0003368         0   0.15232E-03  732067.3 4059385.4    62.4     3.40     4.00
3.16     NO                    NO
 L0003369         0   0.15232E-03  732075.9 4059385.6    62.4     3.40     4.00
3.16     NO                    NO
 L0003370         0   0.15232E-03  732084.5 4059385.8    62.3     3.40     4.00
3.16     NO                    NO
 L0003371         0   0.15232E-03  732093.0 4059386.0    62.3     3.40     4.00
3.16     NO                    NO
 L0003372         0   0.15232E-03  732101.6 4059386.2    62.3     3.40     4.00
3.16     NO                    NO
 L0003373         0   0.15232E-03  732110.2 4059386.4    62.2     3.40     4.00
3.16     NO                    NO
 L0003374         0   0.15232E-03  732118.8 4059386.5    62.2     3.40     4.00
3.16     NO                    NO
 L0003375         0   0.15232E-03  732127.4 4059386.7    62.1     3.40     4.00
3.16     NO                    NO
 L0003376         0   0.15232E-03  732136.0 4059386.9    62.1     3.40     4.00
3.16     NO                    NO
 L0003377         0   0.15232E-03  732144.6 4059387.1    62.1     3.40     4.00
3.16     NO                    NO
 L0003378         0   0.15232E-03  732153.2 4059387.3    62.0     3.40     4.00
3.16     NO                    NO
 L0003379         0   0.15232E-03  732161.8 4059387.5    62.0     3.40     4.00
3.16     NO                    NO
 L0003380         0   0.15232E-03  732170.4 4059387.7    62.0     3.40     4.00
3.16     NO                    NO
 L0003381         0   0.15232E-03  732179.0 4059387.9    61.9     3.40     4.00
3.16     NO                    NO
 L0003382         0   0.15232E-03  732187.6 4059388.0    61.9     3.40     4.00
3.16     NO                    NO
 L0003383         0   0.15232E-03  732196.2 4059388.2    61.9     3.40     4.00
3.16     NO                    NO
 L0003384         0   0.15232E-03  732204.8 4059388.4    61.8     3.40     4.00
3.16     NO                    NO
 L0003385         0   0.15232E-03  732213.4 4059388.6    61.8     3.40     4.00
3.16     NO                    NO
 L0003386         0   0.15232E-03  732222.0 4059388.8    61.8     3.40     4.00
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3.16     NO                     NO
 L0003387         0   0.15232E-03  732230.6 4059389.0    61.8     3.40     4.00
3.16     NO                     NO
 L0003388         0   0.15232E-03  732239.2 4059389.2    61.7     3.40     4.00
3.16     NO                     NO
 L0003389         0   0.15232E-03  732247.8 4059389.4    61.7     3.40     4.00
3.16     NO                     NO
 L0003390         0   0.15232E-03  732256.4 4059389.5    61.7     3.40     4.00
3.16     NO                     NO
 L0003391         0   0.15232E-03  732265.0 4059389.7    61.7     3.40     4.00
3.16     NO                     NO
 L0003392         0   0.15232E-03  732273.6 4059389.9    61.7     3.40     4.00
3.16     NO                     NO
 L0003393         0   0.15232E-03  732282.2 4059390.1    61.6     3.40     4.00
3.16     NO                     NO
 L0003394         0   0.15232E-03  732290.8 4059390.3    61.6     3.40     4.00
3.16     NO                     NO
 L0003395         0   0.15232E-03  732299.4 4059390.5    61.6     3.40     4.00
3.16     NO                     NO
 L0003396         0   0.15232E-03  732308.0 4059390.7    61.6     3.40     4.00
3.16     NO                     NO
 L0003397         0   0.15232E-03  732316.6 4059390.8    61.6     3.40     4.00
3.16     NO                     NO
 L0003398         0   0.15232E-03  732325.2 4059391.0    61.6     3.40     4.00
3.16     NO                     NO
 L0003399         0   0.15232E-03  732333.8 4059391.2    61.5     3.40     4.00
3.16     NO                     NO
 L0003400         0   0.15232E-03  732342.4 4059391.4    61.5     3.40     4.00
3.16     NO                     NO
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0003401         0   0.15232E-03  732351.0 4059391.6    61.5     3.40     4.00
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3.16     NO                    NO
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3.16     NO                    NO
 L0003403         0   0.15232E-03  732368.2 4059392.0    61.5     3.40     4.00
3.16     NO                    NO
 L0003404         0   0.15232E-03  732376.8 4059392.2    61.4     3.40     4.00
3.16     NO                    NO
 L0003405         0   0.15232E-03  732385.4 4059392.3    61.4     3.40     4.00
3.16     NO                    NO
 L0003406         0   0.15232E-03  732394.0 4059392.5    61.4     3.40     4.00
3.16     NO                    NO
 L0003407         0   0.15232E-03  732402.6 4059392.7    61.4     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0003410         0   0.15232E-03  732428.4 4059393.3    61.3     3.40     4.00
3.16     NO                    NO
 L0003411         0   0.15232E-03  732437.0 4059393.5    61.3     3.40     4.00
3.16     NO                    NO
 L0003412         0   0.15232E-03  732445.6 4059393.7    61.3     3.40     4.00
3.16     NO                    NO
 L0003413         0   0.15232E-03  732454.2 4059393.8    61.3     3.40     4.00
3.16     NO                    NO
 L0003414         0   0.15232E-03  732462.8 4059394.0    61.3     3.40     4.00
3.16     NO                    NO
 L0003415         0   0.15232E-03  732471.4 4059394.2    61.3     3.40     4.00
3.16     NO                    NO
 L0003416         0   0.15232E-03  732480.0 4059394.4    61.2     3.40     4.00
3.16     NO                    NO
 L0003417         0   0.15232E-03  732486.4 4059392.3    61.2     3.40     4.00
3.16     NO                    NO
 L0003418         0   0.15232E-03  732486.6 4059383.7    61.2     3.40     4.00
3.16     NO                    NO
 L0003419         0   0.15232E-03  732486.8 4059375.1    61.2     3.40     4.00
3.16     NO                    NO
 L0003420         0   0.15232E-03  732487.1 4059366.5    61.2     3.40     4.00
3.16     NO                    NO
 L0003421         0   0.15232E-03  732487.3 4059357.9    61.2     3.40     4.00
3.16     NO                    NO
 L0003422         0   0.15232E-03  732487.6 4059349.3    61.2     3.40     4.00
3.16     NO                    NO
 L0003423         0   0.15232E-03  732487.8 4059340.7    61.3     3.40     4.00
3.16     NO                    NO
 L0003424         0   0.15232E-03  732488.0 4059332.1    61.3     3.40     4.00
3.16     NO                    NO
 L0003425         0   0.15232E-03  732488.3 4059323.5    61.3     3.40     4.00
3.16     NO                    NO
 L0003426         0   0.15232E-03  732488.5 4059314.9    61.3     3.40     4.00
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3.16     NO                     NO
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3.16     NO                     NO
 L0003428         0   0.15232E-03  732489.0 4059297.7    61.3     3.40     4.00
3.16     NO                     NO
 L0003429         0   0.15232E-03  732489.2 4059289.1    61.3     3.40     4.00
3.16     NO                     NO
 L0003430         0   0.15232E-03  732489.5 4059280.5    61.3     3.40     4.00
3.16     NO                     NO
 L0003431         0   0.15232E-03  732489.7 4059271.9    61.3     3.40     4.00
3.16     NO                     NO
 L0003432         0   0.15232E-03  732490.0 4059263.3    61.3     3.40     4.00
3.16     NO                     NO
 L0003433         0   0.15232E-03  732490.2 4059254.7    61.3     3.40     4.00
3.16     NO                     NO
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3.16     NO                     NO
 L0003435         0   0.15232E-03  732490.7 4059237.5    61.3     3.40     4.00
3.16     NO                     NO
 L0003436         0   0.15232E-03  732490.9 4059228.9    61.3     3.40     4.00
3.16     NO                     NO
 L0003437         0   0.15232E-03  732491.2 4059220.4    61.3     3.40     4.00
3.16     NO                     NO
 L0003438         0   0.15232E-03  732491.4 4059211.8    61.4     3.40     4.00
3.16     NO                     NO
 L0003439         0   0.15232E-03  732491.6 4059203.2    61.4     3.40     4.00
3.16     NO                     NO
 L0003440         0   0.15232E-03  732491.9 4059194.6    61.4     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  88
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0003441         0   0.15232E-03  732492.1 4059186.0    61.4     3.40     4.00
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3.16     NO                    NO
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3.16     NO                    NO
 L0003443         0   0.15232E-03  732492.6 4059168.8    61.4     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0003445         0   0.15232E-03  732493.1 4059151.6    61.4     3.40     4.00
3.16     NO                    NO
 L0003446         0   0.15232E-03  732493.3 4059143.0    61.4     3.40     4.00
3.16     NO                    NO
 L0003447         0   0.15232E-03  732493.6 4059134.4    61.4     3.40     4.00
3.16     NO                    NO
 L0003448         0   0.15232E-03  732493.8 4059125.8    61.4     3.40     4.00
3.16     NO                    NO
 L0003449         0   0.15232E-03  732494.1 4059117.2    61.5     3.40     4.00
3.16     NO                    NO
 L0003450         0   0.15232E-03  732494.3 4059108.6    61.5     3.40     4.00
3.16     NO                    NO
 L0003451         0   0.15232E-03  732494.5 4059100.0    61.5     3.40     4.00
3.16     NO                    NO
 L0003452         0   0.15232E-03  732494.8 4059091.4    61.5     3.40     4.00
3.16     NO                    NO
 L0003453         0   0.15232E-03  732495.0 4059082.8    61.5     3.40     4.00
3.16     NO                    NO
 L0003454         0   0.15232E-03  732495.3 4059074.2    61.5     3.40     4.00
3.16     NO                    NO
 L0003455         0   0.15232E-03  732495.5 4059065.6    61.5     3.40     4.00
3.16     NO                    NO
 L0003456         0   0.15232E-03  732495.7 4059057.0    61.5     3.40     4.00
3.16     NO                    NO
 L0003457         0   0.15232E-03  732496.0 4059048.4    61.5     3.40     4.00
3.16     NO                    NO
 L0003458         0   0.15232E-03  732496.2 4059039.8    61.5     3.40     4.00
3.16     NO                    NO
 L0003459         0   0.15232E-03  732496.5 4059031.2    61.6     3.40     4.00
3.16     NO                    NO
 L0003460         0   0.15232E-03  732496.7 4059022.6    61.6     3.40     4.00
3.16     NO                    NO
 L0003461         0   0.15232E-03  732496.9 4059014.0    61.6     3.40     4.00
3.16     NO                    NO
 L0003462         0   0.15232E-03  732497.2 4059005.4    61.6     3.40     4.00
3.16     NO                    NO
 L0003463         0   0.15232E-03  732497.4 4058996.8    61.6     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0003466         0   0.15232E-03  732498.1 4058971.0    61.6     3.40     4.00
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3.16   NO   NO
 L0003467   0   0.15232E-03 732498.4 4058962.5   61.7   3.40   4.00
3.16   NO   NO
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3.16   NO   NO
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3.16   NO   NO
 L0003470   0   0.15232E-03 732499.1 4058936.7   61.7   3.40   4.00
3.16   NO   NO
 L0003471   0   0.15232E-03 732499.3 4058928.1   61.7   3.40   4.00
3.16   NO   NO
 L0003472   0   0.15232E-03 732499.6 4058919.5   61.7   3.40   4.00
3.16   NO   NO
 L0003473   0   0.15232E-03 732499.8 4058910.9   61.7   3.40   4.00
3.16   NO   NO
 L0003474   0   0.15232E-03 732500.1 4058902.3   61.7   3.40   4.00
3.16   NO   NO
 L0003475   0   0.15232E-03 732500.3 4058893.7   61.7   3.40   4.00
3.16   NO   NO
 L0003476   0   0.15232E-03 732500.5 4058885.1   61.7   3.40   4.00
3.16   NO   NO
 L0003477   0   0.15232E-03 732500.8 4058876.5   61.8   3.40   4.00
3.16   NO   NO
 L0003478   0   0.15232E-03 732501.0 4058867.9   61.8   3.40   4.00
3.16   NO   NO
 L0003479   0   0.15232E-03 732501.3 4058859.3   61.8   3.40   4.00
3.16   NO   NO
 L0003480   0   0.15232E-03 732501.5 4058850.7   61.8   3.40   4.00
3.16   NO   NO

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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 L0003481   0   0.15232E-03 732501.7 4058842.1   61.8   3.40   4.00

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3.16     NO                    NO
 L0003482         0   0.15232E-03  732502.0 4058833.5    61.8     3.40     4.00
3.16     NO                    NO
 L0003483         0   0.15232E-03  732502.2 4058824.9    61.8     3.40     4.00
3.16     NO                    NO
 L0003484         0   0.15232E-03  732502.5 4058816.3    61.8     3.40     4.00
3.16     NO                    NO
 L0003485         0   0.15232E-03  732502.7 4058807.7    61.8     3.40     4.00
3.16     NO                    NO
 L0003486         0   0.15232E-03  732502.9 4058799.1    61.8     3.40     4.00
3.16     NO                    NO
 L0003487         0   0.15232E-03  732503.2 4058790.5    61.8     3.40     4.00
3.16     NO                    NO
 L0003488         0   0.15232E-03  732503.4 4058781.9    61.8     3.40     4.00
3.16     NO                    NO
 L0003489         0   0.15232E-03  732503.7 4058773.3    61.8     3.40     4.00
3.16     NO                    NO
 L0003490         0   0.15232E-03  732503.9 4058764.7    61.8     3.40     4.00
3.16     NO                    NO
 L0003491         0   0.15232E-03  732504.1 4058756.1    61.8     3.40     4.00
3.16     NO                    NO
 L0003492         0   0.15232E-03  732504.4 4058747.5    61.9     3.40     4.00
3.16     NO                    NO
 L0003493         0   0.15232E-03  732504.6 4058738.9    61.9     3.40     4.00
3.16     NO                    NO
 L0003494         0   0.15232E-03  732504.9 4058730.3    61.9     3.40     4.00
3.16     NO                    NO
 L0003495         0   0.15232E-03  732505.1 4058721.7    61.9     3.40     4.00
3.16     NO                    NO
 L0003496         0   0.15232E-03  732505.3 4058713.2    61.9     3.40     4.00
3.16     NO                    NO
 L0003497         0   0.15232E-03  732505.6 4058704.6    61.9     3.40     4.00
3.16     NO                    NO
 L0003498         0   0.15232E-03  732505.8 4058696.0    61.9     3.40     4.00
3.16     NO                    NO
 L0003499         0   0.15232E-03  732506.1 4058687.4    61.9     3.40     4.00
3.16     NO                    NO
 L0003500         0   0.15232E-03  732506.3 4058678.8    61.9     3.40     4.00
3.16     NO                    NO
 L0003501         0   0.15232E-03  732506.5 4058670.2    61.9     3.40     4.00
3.16     NO                    NO
 L0003502         0   0.15232E-03  732506.8 4058661.6    61.9     3.40     4.00
3.16     NO                    NO
 L0003503         0   0.15232E-03  732507.0 4058653.0    61.9     3.40     4.00
3.16     NO                    NO
 L0003504         0   0.15232E-03  732507.3 4058644.4    61.9     3.40     4.00
3.16     NO                    NO
 L0003505         0   0.15232E-03  732507.5 4058635.8    61.9     3.40     4.00
3.16     NO                    NO
 L0003506         0   0.15232E-03  732507.7 4058627.2    61.9     3.40     4.00
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3.16     NO                     NO
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3.16     NO                     NO
 L0003508         0   0.15232E-03  732508.2 4058610.0    61.9     3.40     4.00
3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
 L0003511         0   0.15232E-03  732508.9 4058584.2    61.9     3.40     4.00
3.16     NO                     NO
 L0003512         0   0.15232E-03  732509.2 4058575.6    61.9     3.40     4.00
3.16     NO                     NO
 L0003513         0   0.15232E-03  732509.4 4058567.0    61.9     3.40     4.00
3.16     NO                     NO
 L0003514         0   0.15232E-03  732509.7 4058558.4    61.9     3.40     4.00
3.16     NO                     NO
 L0003515         0   0.15232E-03  732509.9 4058549.8    61.9     3.40     4.00
3.16     NO                     NO
 L0003516         0   0.15232E-03  732510.1 4058541.2    61.9     3.40     4.00
3.16     NO                     NO
 L0003517         0   0.15232E-03  732510.4 4058532.6    62.0     3.40     4.00
3.16     NO                     NO
 L0003518         0   0.15232E-03  732510.6 4058524.0    62.0     3.40     4.00
3.16     NO                     NO
 L0003519         0   0.15232E-03  732510.9 4058515.4    62.0     3.40     4.00
3.16     NO                     NO
 L0003520         0   0.15232E-03  732511.1 4058506.8    62.0     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  90
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0003521         0   0.15232E-03  732511.3 4058498.2    62.0     3.40     4.00
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3.16     NO                    NO
 L0003522         0   0.15232E-03  732511.6 4058489.6    62.0     3.40     4.00
3.16     NO                    NO
 L0003523         0   0.15232E-03  732511.8 4058481.0    62.0     3.40     4.00
3.16     NO                    NO
 L0003524         0   0.15232E-03  732512.1 4058472.4    62.0     3.40     4.00
3.16     NO                    NO
 L0003525         0   0.15232E-03  732512.3 4058463.8    62.0     3.40     4.00
3.16     NO                    NO
 L0003526         0   0.15232E-03  732512.5 4058455.3    62.0     3.40     4.00
3.16     NO                    NO
 L0003527         0   0.15232E-03  732512.8 4058446.7    62.0     3.40     4.00
3.16     NO                    NO
 L0003528         0   0.15232E-03  732513.0 4058438.1    62.0     3.40     4.00
3.16     NO                    NO
 L0003529         0   0.15232E-03  732513.3 4058429.5    62.0     3.40     4.00
3.16     NO                    NO
 L0003530         0   0.15232E-03  732513.5 4058420.9    62.0     3.40     4.00
3.16     NO                    NO
 L0003531         0   0.15232E-03  732513.7 4058412.3    62.0     3.40     4.00
3.16     NO                    NO
 L0003532         0   0.15232E-03  732514.0 4058403.7    62.0     3.40     4.00
3.16     NO                    NO
 L0003533         0   0.15232E-03  732514.2 4058395.1    62.0     3.40     4.00
3.16     NO                    NO
 L0003534         0   0.15232E-03  732514.5 4058386.5    62.0     3.40     4.00
3.16     NO                    NO
 L0003535         0   0.15232E-03  732514.7 4058377.9    62.0     3.40     4.00
3.16     NO                    NO
 L0003536         0   0.15232E-03  732514.9 4058369.3    62.0     3.40     4.00
3.16     NO                    NO
 L0003537         0   0.15232E-03  732515.2 4058360.7    62.0     3.40     4.00
3.16     NO                    NO
 L0003538         0   0.15232E-03  732515.4 4058352.1    62.0     3.40     4.00
3.16     NO                    NO
 L0003539         0   0.15232E-03  732515.7 4058343.5    62.0     3.40     4.00
3.16     NO                    NO
 L0003540         0   0.15232E-03  732515.9 4058334.9    62.0     3.40     4.00
3.16     NO                    NO
 L0003541         0   0.15232E-03  732516.1 4058326.3    62.0     3.40     4.00
3.16     NO                    NO
 L0003542         0   0.15232E-03  732516.4 4058317.7    62.0     3.40     4.00
3.16     NO                    NO
 L0003543         0   0.15232E-03  732516.6 4058309.1    62.0     3.40     4.00
3.16     NO                    NO
 L0003544         0   0.15232E-03  732516.9 4058300.5    62.1     3.40     4.00
3.16     NO                    NO
 L0003545         0   0.15232E-03  732517.1 4058291.9    62.1     3.40     4.00
3.16     NO                    NO
 L0003546         0   0.15232E-03  732517.3 4058283.3    62.1     3.40     4.00
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3.16   NO   NO
 L0003547   0   0.15232E-03 732517.6 4058274.7   62.1   3.40   4.00
3.16   NO   NO
 L0003548   0   0.15232E-03 732517.8 4058266.1   62.1   3.40   4.00
3.16   NO   NO
 L0003549   0   0.15232E-03 732518.1 4058257.5   62.1   3.40   4.00
3.16   NO   NO
 L0003550   0   0.15232E-03 732518.3 4058248.9   62.1   3.40   4.00
3.16   NO   NO
 L0003551   0   0.15232E-03 732518.5 4058240.3   62.1   3.40   4.00
3.16   NO   NO
 L0003552   0   0.15232E-03 732518.8 4058231.7   62.1   3.40   4.00
3.16   NO   NO
 L0003553   0   0.15232E-03 732519.0 4058223.1   62.1   3.40   4.00
3.16   NO   NO
 L0003554   0   0.15232E-03 732519.3 4058214.5   62.1   3.40   4.00
3.16   NO   NO
 L0003555   0   0.15232E-03 732519.5 4058205.9   62.1   3.40   4.00
3.16   NO   NO
 L0003556   0   0.15232E-03 732519.7 4058197.4   62.1   3.40   4.00
3.16   NO   NO
 L0003557   0   0.15232E-03 732520.0 4058188.8   62.1   3.40   4.00
3.16   NO   NO
 L0003558   0   0.15232E-03 732520.2 4058180.2   62.1   3.40   4.00
3.16   NO   NO
 L0003559   0   0.15232E-03 732520.5 4058171.6   62.1   3.40   4.00
3.16   NO   NO
 L0003560   0   0.15232E-03 732520.7 4058163.0   62.1   3.40   4.00
3.16   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

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

 L0003561   0   0.15232E-03 732520.9 4058154.4   62.1   3.40   4.00

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3.16     NO                    NO
 L0003562         0   0.15232E-03  732521.2 4058145.8    62.1     3.40     4.00
3.16     NO                    NO
 L0003563         0   0.15232E-03  732521.4 4058137.2    62.2     3.40     4.00
3.16     NO                    NO
 L0003564         0   0.15232E-03  732521.7 4058128.6    62.2     3.40     4.00
3.16     NO                    NO
 L0003565         0   0.15232E-03  732521.9 4058120.0    62.2     3.40     4.00
3.16     NO                    NO
 L0003566         0   0.15232E-03  732522.1 4058111.4    62.2     3.40     4.00
3.16     NO                    NO
 L0003567         0   0.15232E-03  732522.4 4058102.8    62.2     3.40     4.00
3.16     NO                    NO
 L0003568         0   0.15232E-03  732522.6 4058094.2    62.2     3.40     4.00
3.16     NO                    NO
 L0003569         0   0.15232E-03  732522.9 4058085.6    62.2     3.40     4.00
3.16     NO                    NO
 L0003570         0   0.15232E-03  732523.1 4058077.0    62.2     3.40     4.00
3.16     NO                    NO
 L0003571         0   0.15232E-03  732523.3 4058068.4    62.2     3.40     4.00
3.16     NO                    NO
 L0003572         0   0.15232E-03  732523.6 4058059.8    62.2     3.40     4.00
3.16     NO                    NO
 L0003573         0   0.15232E-03  732523.8 4058051.2    62.2     3.40     4.00
3.16     NO                    NO
 L0003574         0   0.15232E-03  732524.1 4058042.6    62.2     3.40     4.00
3.16     NO                    NO
 L0003575         0   0.15232E-03  732524.3 4058034.0    62.2     3.40     4.00
3.16     NO                    NO
 L0003576         0   0.15232E-03  732524.5 4058025.4    62.2     3.40     4.00
3.16     NO                    NO
 L0003577         0   0.15232E-03  732524.8 4058016.8    62.2     3.40     4.00
3.16     NO                    NO
 L0003578         0   0.15232E-03  732525.0 4058008.2    62.2     3.40     4.00
3.16     NO                    NO
 L0003579         0   0.15232E-03  732525.3 4057999.6    62.2     3.40     4.00
3.16     NO                    NO
 L0003580         0   0.15232E-03  732525.5 4057991.0    62.2     3.40     4.00
3.16     NO                    NO
 L0003581         0   0.15232E-03  732525.7 4057982.4    62.2     3.40     4.00
3.16     NO                    NO
 L0003582         0   0.15232E-03  732526.0 4057973.8    62.3     3.40     4.00
3.16     NO                    NO
 L0003583         0   0.15232E-03  732526.2 4057965.2    62.3     3.40     4.00
3.16     NO                    NO
 L0003584         0   0.15232E-03  732526.5 4057956.6    62.3     3.40     4.00
3.16     NO                    NO
 L0003585         0   0.15232E-03  732526.7 4057948.0    62.3     3.40     4.00
3.16     NO                    NO
 L0003586         0   0.15232E-03  732526.9 4057939.5    62.3     3.40     4.00
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3.16 NO NO
L0003587 0 0.15232E-03 732527.2 4057930.9 62.3 3.40 4.00
3.16 NO NO
L0003588 0 0.15232E-03 732527.4 4057922.3 62.3 3.40 4.00
3.16 NO NO
L0003589 0 0.15232E-03 732527.7 4057913.7 62.3 3.40 4.00
3.16 NO NO
L0003590 0 0.15232E-03 732527.9 4057905.1 62.3 3.40 4.00
3.16 NO NO
L0003591 0 0.15232E-03 732528.1 4057896.5 62.3 3.40 4.00
3.16 NO NO
L0003592 0 0.15232E-03 732528.4 4057887.9 62.3 3.40 4.00
3.16 NO NO
L0003593 0 0.15232E-03 732528.6 4057879.3 62.3 3.40 4.00
3.16 NO NO
L0003594 0 0.15232E-03 732528.9 4057870.7 62.3 3.40 4.00
3.16 NO NO
L0003595 0 0.15232E-03 732529.1 4057862.1 62.3 3.40 4.00
3.16 NO NO
L0003596 0 0.15232E-03 732529.4 4057853.5 62.3 3.40 4.00
3.16 NO NO
L0003597 0 0.15232E-03 732529.6 4057844.9 62.3 3.40 4.00
3.16 NO NO
L0003598 0 0.15232E-03 732536.8 4057844.0 62.3 3.40 4.00
3.16 NO NO
L0003599 0 0.15232E-03 732545.4 4057844.7 62.3 3.40 4.00
3.16 NO NO
L0003600 0 0.15232E-03 732553.9 4057845.4 62.3 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT SCALAR VARY BY
L0003601	0	0.15232E-03	732562.5	4057846.1	62.3	3.40	4.00			

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3.16     NO                    NO
 L0003602         0   0.15232E-03  732571.1 4057846.8    62.2     3.40     4.00
3.16     NO                    NO
 L0003603         0   0.15232E-03  732579.7 4057847.4    62.2     3.40     4.00
3.16     NO                    NO
 L0003604         0   0.15232E-03  732588.2 4057848.1    62.2     3.40     4.00
3.16     NO                    NO
 L0003605         0   0.15232E-03  732596.8 4057848.8    62.1     3.40     4.00
3.16     NO                    NO
 L0003606         0   0.15232E-03  732605.4 4057849.5    62.1     3.40     4.00
3.16     NO                    NO
 L0003607         0   0.15232E-03  732614.0 4057850.1    62.1     3.40     4.00
3.16     NO                    NO
 L0003608         0   0.15232E-03  732622.5 4057850.8    62.1     3.40     4.00
3.16     NO                    NO
 L0003609         0   0.15232E-03  732631.1 4057851.5    62.1     3.40     4.00
3.16     NO                    NO
 L0003610         0   0.15232E-03  732639.7 4057852.2    62.1     3.40     4.00
3.16     NO                    NO
 L0003611         0   0.15232E-03  732648.3 4057852.8    62.0     3.40     4.00
3.16     NO                    NO
 L0003612         0   0.15232E-03  732656.8 4057853.5    62.0     3.40     4.00
3.16     NO                    NO
 L0003613         0   0.15232E-03  732665.4 4057854.2    62.0     3.40     4.00
3.16     NO                    NO
 L0003614         0   0.15232E-03  732674.0 4057854.9    61.9     3.40     4.00
3.16     NO                    NO
 L0003615         0   0.15232E-03  732682.5 4057855.6    61.9     3.40     4.00
3.16     NO                    NO
 L0003616         0   0.15232E-03  732691.1 4057856.2    61.9     3.40     4.00
3.16     NO                    NO
 L0003617         0   0.15232E-03  732699.7 4057856.9    61.9     3.40     4.00
3.16     NO                    NO
 L0003618         0   0.15232E-03  732708.3 4057857.6    61.9     3.40     4.00
3.16     NO                    NO
 L0003619         0   0.15232E-03  732716.8 4057858.3    61.8     3.40     4.00
3.16     NO                    NO
 L0003620         0   0.15232E-03  732725.4 4057858.9    61.8     3.40     4.00
3.16     NO                    NO
 L0003621         0   0.15232E-03  732734.0 4057859.6    61.8     3.40     4.00
3.16     NO                    NO
 L0003622         0   0.15232E-03  732742.6 4057860.3    61.8     3.40     4.00
3.16     NO                    NO
 L0003623         0   0.15232E-03  732751.1 4057861.0    61.7     3.40     4.00
3.16     NO                    NO
 L0003624         0   0.15232E-03  732759.7 4057861.6    61.7     3.40     4.00
3.16     NO                    NO
 L0003625         0   0.15232E-03  732768.3 4057862.3    61.7     3.40     4.00
3.16     NO                    NO
 L0003626         0   0.15232E-03  732776.9 4057863.0    61.7     3.40     4.00
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3.16   NO   NO
 L0003627   0   0.15232E-03 732785.4 4057863.7   61.7   3.40   4.00
3.16   NO   NO
 L0003628   0   0.15232E-03 732794.0 4057864.4   61.6   3.40   4.00
3.16   NO   NO
 L0003629   0   0.15232E-03 732802.6 4057865.0   61.6   3.40   4.00
3.16   NO   NO
 L0003630   0   0.15232E-03 732811.1 4057865.7   61.6   3.40   4.00
3.16   NO   NO
 L0003631   0   0.15232E-03 732819.7 4057866.4   61.5   3.40   4.00
3.16   NO   NO
 L0003632   0   0.15232E-03 732828.3 4057867.1   61.5   3.40   4.00
3.16   NO   NO
 L0003633   0   0.15232E-03 732836.9 4057867.7   61.5   3.40   4.00
3.16   NO   NO
 L0003634   0   0.15232E-03 732845.4 4057868.4   61.5   3.40   4.00
3.16   NO   NO
 L0003635   0   0.15232E-03 732854.0 4057869.1   61.5   3.40   4.00
3.16   NO   NO
 L0003636   0   0.15232E-03 732858.8 4057873.2   61.4   3.40   4.00
3.16   NO   NO
 L0003637   0   0.15232E-03 732858.5 4057881.8   61.4   3.40   4.00
3.16   NO   NO
 L0003638   0   0.15232E-03 732858.3 4057890.4   61.4   3.40   4.00
3.16   NO   NO
 L0003639   0   0.15232E-03 732858.0 4057899.0   61.4   3.40   4.00
3.16   NO   NO
 L0003640   0   0.15232E-03 732857.8 4057907.6   61.4   3.40   4.00
3.16   NO   NO

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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3.16     NO                    NO
 L0003642         0   0.15232E-03  732857.2 4057924.7    61.4     3.40     4.00
3.16     NO                    NO
 L0003643         0   0.15232E-03  732857.0 4057933.3    61.4     3.40     4.00
3.16     NO                    NO
 L0003644         0   0.15232E-03  732856.7 4057941.9    61.4     3.40     4.00
3.16     NO                    NO
 L0003645         0   0.15232E-03  732856.5 4057950.5    61.4     3.40     4.00
3.16     NO                    NO
 L0003646         0   0.15232E-03  732856.2 4057959.1    61.4     3.40     4.00
3.16     NO                    NO
 L0003647         0   0.15232E-03  732855.9 4057967.7    61.4     3.40     4.00
3.16     NO                    NO
 L0003648         0   0.15232E-03  732855.7 4057976.3    61.4     3.40     4.00
3.16     NO                    NO
 L0003649         0   0.15232E-03  732855.4 4057984.9    61.4     3.40     4.00
3.16     NO                    NO
 L0003650         0   0.15232E-03  732855.2 4057993.5    61.4     3.40     4.00
3.16     NO                    NO
 L0003651         0   0.15232E-03  732854.9 4058002.1    61.4     3.40     4.00
3.16     NO                    NO
 L0003652         0   0.15232E-03  732854.6 4058010.7    61.4     3.40     4.00
3.16     NO                    NO
 L0003653         0   0.15232E-03  732854.4 4058019.3    61.4     3.40     4.00
3.16     NO                    NO
 L0003654         0   0.15232E-03  732854.1 4058027.9    61.4     3.40     4.00
3.16     NO                    NO
 L0003655         0   0.15232E-03  732853.9 4058036.5    61.3     3.40     4.00
3.16     NO                    NO
 L0003656         0   0.15232E-03  732853.6 4058045.1    61.3     3.40     4.00
3.16     NO                    NO
 L0003657         0   0.15232E-03  732853.3 4058053.7    61.3     3.40     4.00
3.16     NO                    NO
 L0003658         0   0.15232E-03  732853.1 4058062.3    61.3     3.40     4.00
3.16     NO                    NO
 L0003659         0   0.15232E-03  732852.8 4058070.9    61.3     3.40     4.00
3.16     NO                    NO
 L0003660         0   0.15232E-03  732852.6 4058079.5    61.3     3.40     4.00
3.16     NO                    NO
 L0003661         0   0.15232E-03  732852.3 4058088.1    61.3     3.40     4.00
3.16     NO                    NO
 L0003662         0   0.15232E-03  732852.0 4058096.7    61.3     3.40     4.00
3.16     NO                    NO
 L0003663         0   0.15232E-03  732851.8 4058105.3    61.3     3.40     4.00
3.16     NO                    NO
 L0003664         0   0.15232E-03  732851.5 4058113.9    61.3     3.40     4.00
3.16     NO                    NO
 L0003665         0   0.15232E-03  732851.3 4058122.5    61.3     3.40     4.00
3.16     NO                    NO
 L0003666         0   0.15232E-03  732851.0 4058131.1    61.3     3.40     4.00
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3.16     NO                     NO
 L0003667         0   0.15232E-03  732850.8 4058139.7    61.3     3.40     4.00
3.16     NO                     NO
 L0003668         0   0.15232E-03  732850.5 4058148.2    61.3     3.40     4.00
3.16     NO                     NO
 L0003669         0   0.15232E-03  732850.2 4058156.8    61.3     3.40     4.00
3.16     NO                     NO
 L0003670         0   0.15232E-03  732850.0 4058165.4    61.3     3.40     4.00
3.16     NO                     NO
 L0003671         0   0.15232E-03  732849.7 4058174.0    61.3     3.40     4.00
3.16     NO                     NO
 L0003672         0   0.15232E-03  732849.5 4058182.6    61.3     3.40     4.00
3.16     NO                     NO
 L0003673         0   0.15232E-03  732849.2 4058191.2    61.3     3.40     4.00
3.16     NO                     NO
 L0003674         0   0.15232E-03  732848.9 4058199.8    61.3     3.40     4.00
3.16     NO                     NO
 L0003675         0   0.15232E-03  732848.7 4058208.4    61.3     3.40     4.00
3.16     NO                     NO
 L0003676         0   0.15232E-03  732848.4 4058217.0    61.3     3.40     4.00
3.16     NO                     NO
 L0003677         0   0.15232E-03  732848.2 4058225.6    61.3     3.40     4.00
3.16     NO                     NO
 L0003678         0   0.15232E-03  732847.9 4058234.2    61.3     3.40     4.00
3.16     NO                     NO
 L0003679         0   0.15232E-03  732847.6 4058242.8    61.2     3.40     4.00
3.16     NO                     NO
 L0003680         0   0.15232E-03  732847.4 4058251.4    61.2     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0003681         0   0.15232E-03  732847.1 4058260.0    61.2     3.40     4.00
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3.16     NO                    NO
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3.16     NO                    NO
 L0003683         0   0.15232E-03  732846.6 4058277.2    61.2     3.40     4.00
3.16     NO                    NO
 L0003684         0   0.15232E-03  732846.3 4058285.8    61.2     3.40     4.00
3.16     NO                    NO
 L0003685         0   0.15232E-03  732846.1 4058294.4    61.2     3.40     4.00
3.16     NO                    NO
 L0003686         0   0.15232E-03  732845.8 4058303.0    61.2     3.40     4.00
3.16     NO                    NO
 L0003687         0   0.15232E-03  732845.6 4058311.6    61.2     3.40     4.00
3.16     NO                    NO
 L0003688         0   0.15232E-03  732845.3 4058320.2    61.2     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0003691         0   0.15232E-03  732844.5 4058346.0    61.2     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0003694         0   0.15232E-03  732843.7 4058371.7    61.2     3.40     4.00
3.16     NO                    NO
 L0003695         0   0.15232E-03  732843.5 4058380.3    61.2     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0003699         0   0.15232E-03  732842.5 4058414.7    61.2     3.40     4.00
3.16     NO                    NO
 L0003700         0   0.15232E-03  732842.2 4058423.3    61.2     3.40     4.00
3.16     NO                    NO
 L0003701         0   0.15232E-03  732841.9 4058431.9    61.2     3.40     4.00
3.16     NO                    NO
 L0003702         0   0.15232E-03  732841.7 4058440.5    61.2     3.40     4.00
3.16     NO                    NO
 L0003703         0   0.15232E-03  732841.4 4058449.1    61.1     3.40     4.00
3.16     NO                    NO
 L0003704         0   0.15232E-03  732841.2 4058457.7    61.1     3.40     4.00
3.16     NO                    NO
 L0003705         0   0.15232E-03  732840.9 4058466.3    61.1     3.40     4.00
3.16     NO                    NO
 L0003706         0   0.15232E-03  732840.6 4058474.9    61.1     3.40     4.00
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3.16     NO                     NO
 L0003707         0   0.15232E-03  732840.4 4058483.5    61.1     3.40     4.00
3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
 L0003710         0   0.15232E-03  732839.6 4058509.3    61.1     3.40     4.00
3.16     NO                     NO
 L0003711         0   0.15232E-03  732839.3 4058517.9    61.1     3.40     4.00
3.16     NO                     NO
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3.16     NO                     NO
 L0003713         0   0.15232E-03  732838.8 4058535.1    61.1     3.40     4.00
3.16     NO                     NO
 L0003714         0   0.15232E-03  732838.6 4058543.7    61.1     3.40     4.00
3.16     NO                     NO
 L0003715         0   0.15232E-03  732838.3 4058552.3    61.1     3.40     4.00
3.16     NO                     NO
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3.16     NO                     NO
 L0003717         0   0.15232E-03  732837.8 4058569.5    61.1     3.40     4.00
3.16     NO                     NO
 L0003718         0   0.15232E-03  732837.5 4058578.1    61.1     3.40     4.00
3.16     NO                     NO
 L0003719         0   0.15232E-03  732837.3 4058586.6    61.1     3.40     4.00
3.16     NO                     NO
 L0003720         0   0.15232E-03  732837.0 4058595.2    61.1     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  95
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0003721         0   0.15232E-03  732836.7 4058603.8    61.1     3.40     4.00
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3.16     NO                    NO
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3.16     NO                    NO
 L0003723         0   0.15232E-03  732836.2 4058621.0    61.1     3.40     4.00
3.16     NO                    NO
 L0003724         0   0.15232E-03  732836.0 4058629.6    61.1     3.40     4.00
3.16     NO                    NO
 L0003725         0   0.15232E-03  732835.7 4058638.2    61.1     3.40     4.00
3.16     NO                    NO
 L0003726         0   0.15232E-03  732835.4 4058646.8    61.0     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0003728         0   0.15232E-03  732834.9 4058664.0    61.0     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0003730         0   0.15232E-03  732834.4 4058681.2    61.0     3.40     4.00
3.16     NO                    NO
 L0003731         0   0.15232E-03  732834.2 4058689.8    61.0     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0003733         0   0.15232E-03  732833.6 4058707.0    61.0     3.40     4.00
3.16     NO                    NO
 L0003734         0   0.15232E-03  732833.4 4058715.6    61.0     3.40     4.00
3.16     NO                    NO
 L0003735         0   0.15232E-03  732833.1 4058724.2    61.0     3.40     4.00
3.16     NO                    NO
 L0003736         0   0.15232E-03  732832.9 4058732.8    61.0     3.40     4.00
3.16     NO                    NO
 L0003737         0   0.15232E-03  732832.6 4058741.4    61.0     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0003739         0   0.15232E-03  732832.1 4058758.6    61.0     3.40     4.00
3.16     NO                    NO
 L0003740         0   0.15232E-03  732831.8 4058767.2    61.0     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0003742         0   0.15232E-03  732831.3 4058784.4    61.0     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16   NO   NO
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3.16   NO   NO
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3.16   NO   NO
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3.16   NO   NO
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3.16   NO   NO
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3.16   NO   NO
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3.16   NO   NO
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3.16   NO   NO
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3.16   NO   NO
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3.16   NO   NO
 L0003756   0   0.15232E-03 732827.7 4058904.7   60.9   3.40   4.00
3.16   NO   NO
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3.16   NO   NO
 L0003758   0   0.15232E-03 732827.1 4058921.9   60.9   3.40   4.00
3.16   NO   NO
 L0003759   0   0.15232E-03 732826.9 4058930.5   60.9   3.40   4.00
3.16   NO   NO
 L0003760   0   0.15232E-03 732826.6 4058939.1   60.9   3.40   4.00
3.16   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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 L0003761   0   0.15232E-03 732826.4 4058947.7   60.8   3.40   4.00

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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0003768         0   0.15232E-03  732824.6 4059007.9    60.8     3.40     4.00
3.16     NO                    NO
 L0003769         0   0.15232E-03  732824.3 4059016.5    60.8     3.40     4.00
3.16     NO                    NO
 L0003770         0   0.15232E-03  732824.0 4059025.0    60.8     3.40     4.00
3.16     NO                    NO
 L0003771         0   0.15232E-03  732823.8 4059033.6    60.8     3.40     4.00
3.16     NO                    NO
 L0003772         0   0.15232E-03  732823.5 4059042.2    60.8     3.40     4.00
3.16     NO                    NO
 L0003773         0   0.15232E-03  732823.3 4059050.8    60.8     3.40     4.00
3.16     NO                    NO
 L0003774         0   0.15232E-03  732823.0 4059059.4    60.7     3.40     4.00
3.16     NO                    NO
 L0003775         0   0.15232E-03  732822.7 4059068.0    60.7     3.40     4.00
3.16     NO                    NO
 L0003776         0   0.15232E-03  732822.5 4059076.6    60.7     3.40     4.00
3.16     NO                    NO
 L0003777         0   0.15232E-03  732822.2 4059085.2    60.7     3.40     4.00
3.16     NO                    NO
 L0003778         0   0.15232E-03  732822.0 4059093.8    60.7     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0003780         0   0.15232E-03  732821.4 4059111.0    60.7     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0003782         0   0.15232E-03  732820.9 4059128.2    60.7     3.40     4.00
3.16     NO                    NO
 L0003783         0   0.15232E-03  732820.7 4059136.8    60.6     3.40     4.00
3.16     NO                    NO
 L0003784         0   0.15232E-03  732820.4 4059145.4    60.6     3.40     4.00
3.16     NO                    NO
 L0003785         0   0.15232E-03  732820.1 4059154.0    60.6     3.40     4.00
3.16     NO                    NO
 L0003786         0   0.15232E-03  732819.9 4059162.6    60.6     3.40     4.00
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
 L0003790         0   0.15232E-03  732818.8 4059197.0    60.6     3.40     4.00
3.16     NO                     NO
 L0003791         0   0.15232E-03  732818.6 4059205.6    60.6     3.40     4.00
3.16     NO                     NO
 L0003792         0   0.15232E-03  732818.3 4059214.2    60.6     3.40     4.00
3.16     NO                     NO
 L0003793         0   0.15232E-03  732818.1 4059222.8    60.6     3.40     4.00
3.16     NO                     NO
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3.16     NO                     NO
 L0003795         0   0.15232E-03  732817.6 4059239.9    60.5     3.40     4.00
3.16     NO                     NO
 L0003796         0   0.15232E-03  732817.3 4059248.5    60.5     3.40     4.00
3.16     NO                     NO
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3.16     NO                     NO
 L0003798         0   0.15232E-03  732816.8 4059265.7    60.5     3.40     4.00
3.16     NO                     NO
 L0003799         0   0.15232E-03  732816.5 4059274.3    60.5     3.40     4.00
3.16     NO                     NO
 L0003800         0   0.15232E-03  732816.3 4059282.9    60.5     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
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 L0003801         0   0.15232E-03  732816.0 4059291.5    60.5     3.40     4.00
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3.16     NO                    NO
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3.16     NO                    NO
 L0003803         0   0.15232E-03  732815.5 4059308.7    60.5     3.40     4.00
3.16     NO                    NO
 L0003804         0   0.15232E-03  732815.2 4059317.3    60.5     3.40     4.00
3.16     NO                    NO
 L0003805         0   0.15232E-03  732815.0 4059325.9    60.4     3.40     4.00
3.16     NO                    NO
 L0003806         0   0.15232E-03  732814.7 4059334.5    60.4     3.40     4.00
3.16     NO                    NO
 L0003807         0   0.15232E-03  732814.4 4059343.1    60.4     3.40     4.00
3.16     NO                    NO
 L0003808         0   0.15232E-03  732814.2 4059351.7    60.4     3.40     4.00
3.16     NO                    NO
 L0003809         0   0.15232E-03  732813.9 4059360.3    60.4     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0003811         0   0.15232E-03  732813.4 4059377.5    60.4     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0003816         0   0.15232E-03  732812.1 4059420.5    60.3     3.40     4.00
3.16     NO                    NO
 L0003817         0   0.15232E-03  732811.8 4059429.1    60.3     3.40     4.00
3.16     NO                    NO
 L0003818         0   0.15232E-03  732811.6 4059437.7    60.3     3.40     4.00
3.16     NO                    NO
 L0003819         0   0.15232E-03  732811.3 4059446.3    60.3     3.40     4.00
3.16     NO                    NO
 L0003820         0   0.15232E-03  732811.1 4059454.9    60.3     3.40     4.00
3.16     NO                    NO
 L0003821         0   0.15232E-03  732810.8 4059463.4    60.3     3.40     4.00
3.16     NO                    NO
 L0003822         0   0.15232E-03  732810.6 4059472.0    60.3     3.40     4.00
3.16     NO                    NO
 L0003823         0   0.15232E-03  732810.3 4059480.6    60.3     3.40     4.00
3.16     NO                    NO
 L0003824         0   0.15232E-03  732810.0 4059489.2    60.3     3.40     4.00
3.16     NO                    NO
 L0003825         0   0.15232E-03  732809.8 4059497.8    60.3     3.40     4.00
3.16     NO                    NO
 L0003826         0   0.15232E-03  732809.5 4059506.4    60.3     3.40     4.00
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3.16     NO                     NO
 L0003827         0   0.15232E-03  732809.3 4059515.0    60.3     3.40     4.00
3.16     NO                     NO
 L0003828         0   0.15232E-03  732809.0 4059523.6    60.3     3.40     4.00
3.16     NO                     NO
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3.16     NO                     NO
 L0003830         0   0.15232E-03  732808.5 4059540.8    60.3     3.40     4.00
3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
 L0003833         0   0.15232E-03  732807.7 4059566.6    60.3     3.40     4.00
3.16     NO                     NO
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3.16     NO                     NO
 L0003835         0   0.15232E-03  732807.2 4059583.8    60.3     3.40     4.00
3.16     NO                     NO
 L0003836         0   0.15232E-03  732806.9 4059592.4    60.3     3.40     4.00
3.16     NO                     NO
 L0003837         0   0.15232E-03  732806.7 4059601.0    60.3     3.40     4.00
3.16     NO                     NO
 L0003838         0   0.15232E-03  732806.4 4059609.6    60.3     3.40     4.00
3.16     NO                     NO
 L0003839         0   0.15232E-03  732806.1 4059618.2    60.3     3.40     4.00
3.16     NO                     NO
 L0003840         0   0.15232E-03  732805.9 4059626.8    60.3     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE  98
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0003841         0   0.15232E-03  732805.6 4059635.4    60.3     3.40     4.00
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3.16     NO                    NO
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3.16     NO                    NO
 L0003843         0   0.15232E-03  732805.1 4059652.6    60.4     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0003846         0   0.15232E-03  732804.3 4059678.3    60.4     3.40     4.00
3.16     NO                    NO
 L0003847         0   0.15232E-03  732804.1 4059686.9    60.4     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0003861         0   0.15232E-03  732800.4 4059807.3    60.4     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0003866         0   0.15232E-03  732799.1 4059850.3    60.3     3.40     4.00
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3.16     NO                     NO
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3.16     NO                     NO
 L0003868         0   0.15232E-03  732798.6 4059867.5    60.3     3.40     4.00
3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
 L0003875         0   0.15232E-03  732750.4 4059879.8    60.5     3.40     4.00
3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
 L0003878         0   0.15232E-03  732724.6 4059879.8    60.5     3.40     4.00
3.16     NO                     NO
 L0003879         0   0.15232E-03  732716.0 4059879.8    60.5     3.40     4.00
3.16     NO                     NO
 L0003880         0   0.15232E-03  732707.4 4059879.8    60.6     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0003881         0   0.15232E-03  732698.8 4059879.8    60.6     3.40     4.00
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0003884         0   0.15232E-03  732673.0 4059879.8    60.7     3.40     4.00
3.16     NO                    NO
 L0003885         0   0.15232E-03  732664.4 4059879.8    60.7     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0003889         0   0.15232E-03  732630.0 4059879.8    60.8     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0003900         0   0.15232E-03  732535.4 4059879.8    61.1     3.40     4.00
3.16     NO                    NO
 L0003901         0   0.15232E-03  732526.8 4059879.8    61.1     3.40     4.00
3.16     NO                    NO
 L0003902         0   0.15232E-03  732518.2 4059879.8    61.1     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16 NO NO
L0003907 0 0.15232E-03 732475.2 4059879.8 61.2 3.40 4.00
3.16 NO NO
L0003908 0 0.15232E-03 732466.6 4059879.8 61.2 3.40 4.00
3.16 NO NO
L0003909 0 0.15232E-03 732458.0 4059879.8 61.2 3.40 4.00
3.16 NO NO
L0003910 0 0.15232E-03 732449.4 4059879.8 61.3 3.40 4.00
3.16 NO NO
L0003911 0 0.15232E-03 732440.8 4059879.8 61.3 3.40 4.00
3.16 NO NO
L0003912 0 0.15232E-03 732432.2 4059879.8 61.3 3.40 4.00
3.16 NO NO
L0003913 0 0.15232E-03 732423.6 4059879.8 61.3 3.40 4.00
3.16 NO NO
L0003914 0 0.15232E-03 732415.0 4059879.8 61.3 3.40 4.00
3.16 NO NO
L0003915 0 0.15232E-03 732406.4 4059879.8 61.4 3.40 4.00
3.16 NO NO
L0003916 0 0.15232E-03 732397.8 4059879.8 61.4 3.40 4.00
3.16 NO NO
L0003917 0 0.15232E-03 732389.2 4059879.8 61.4 3.40 4.00
3.16 NO NO
L0003918 0 0.15232E-03 732380.6 4059879.8 61.4 3.40 4.00
3.16 NO NO
L0003919 0 0.15232E-03 732372.0 4059879.8 61.4 3.40 4.00
3.16 NO NO
L0003920 0 0.15232E-03 732363.4 4059879.8 61.4 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT SCALAR VARY BY
L0003921	0	0.15232E-03	732354.8	4059879.8	61.5	3.40	4.00			

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3.16     NO                    NO
 L0003922         0   0.15232E-03  732346.2 4059879.8    61.5     3.40     4.00
3.16     NO                    NO
 L0003923         0   0.15232E-03  732337.6 4059879.8    61.5     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0003925         0   0.15232E-03  732320.4 4059879.8    61.5     3.40     4.00
3.16     NO                    NO
 L0003926         0   0.15232E-03  732311.8 4059879.8    61.6     3.40     4.00
3.16     NO                    NO
 L0003927         0   0.15232E-03  732303.2 4059879.8    61.6     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0003931         0   0.15232E-03  732268.8 4059879.8    61.7     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0003941         0   0.15232E-03  732182.8 4059879.8    62.0     3.40     4.00
3.16     NO                    NO
 L0003942         0   0.15232E-03  732174.2 4059879.8    62.0     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0003945         0   0.15232E-03  732148.4 4059879.8    62.1     3.40     4.00
3.16     NO                    NO
 L0003946         0   0.15232E-03  732139.8 4059879.8    62.1     3.40     4.00
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3.16     NO                     NO
 L0003947         0   0.15232E-03  732131.2 4059879.8    62.1     3.40     4.00
3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0003961         0   0.15232E-03  732010.8 4059879.8    62.6     3.40     4.00
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3.16     NO                    NO
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3.16     NO                    NO
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3.16     NO                    NO
 L0003964         0   0.15232E-03  731985.0 4059879.8    62.7     3.40     4.00
3.16     NO                    NO
 L0003965         0   0.15232E-03  731976.4 4059879.8    62.8     3.40     4.00
3.16     NO                    NO
 L0003966         0   0.15232E-03  731967.8 4059879.8    62.8     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0003968         0   0.15232E-03  731950.6 4059879.8    62.8     3.40     4.00
3.16     NO                    NO
 L0003969         0   0.15232E-03  731942.0 4059879.8    62.8     3.40     4.00
3.16     NO                    NO
 L0003970         0   0.15232E-03  731933.4 4059879.8    62.9     3.40     4.00
3.16     NO                    NO
 L0003971         0   0.15232E-03  731924.8 4059879.8    62.9     3.40     4.00
3.16     NO                    NO
 L0003972         0   0.15232E-03  731916.2 4059879.8    62.9     3.40     4.00
3.16     NO                    NO
 L0003973         0   0.15232E-03  731907.6 4059879.8    63.0     3.40     4.00
3.16     NO                    NO
 L0003974         0   0.15232E-03  731899.0 4059879.8    63.0     3.40     4.00
3.16     NO                    NO
 L0003975         0   0.15232E-03  731890.4 4059879.8    63.0     3.40     4.00
3.16     NO                    NO
 L0003976         0   0.15232E-03  731881.8 4059879.8    63.1     3.40     4.00
3.16     NO                    NO
 L0003977         0   0.15232E-03  731873.2 4059879.8    63.1     3.40     4.00
3.16     NO                    NO
 L0003978         0   0.15232E-03  731864.6 4059879.8    63.2     3.40     4.00
3.16     NO                    NO
 L0003979         0   0.15232E-03  731862.6 4059873.3    63.2     3.40     4.00
3.16     NO                    NO
 L0003980         0   0.15232E-03  731862.8 4059864.7    63.2     3.40     4.00
3.16     NO                    NO
 L0003981         0   0.15232E-03  731863.0 4059856.1    63.2     3.40     4.00
3.16     NO                    NO
 L0003982         0   0.15232E-03  731863.2 4059847.5    63.2     3.40     4.00
3.16     NO                    NO
 L0003983         0   0.15232E-03  731863.4 4059838.9    63.2     3.40     4.00
3.16     NO                    NO
 L0003984         0   0.15232E-03  731863.6 4059830.4    63.2     3.40     4.00
3.16     NO                    NO
 L0003985         0   0.15232E-03  731863.8 4059821.8    63.2     3.40     4.00
3.16     NO                    NO
 L0003986         0   0.15232E-03  731864.0 4059813.2    63.2     3.40     4.00
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3.16 NO NO
L0003987 0 0.15232E-03 731864.2 4059804.6 63.2 3.40 4.00
3.16 NO NO
L0003988 0 0.15232E-03 731864.4 4059796.0 63.2 3.40 4.00
3.16 NO NO
L0003989 0 0.15232E-03 731864.6 4059787.4 63.2 3.40 4.00
3.16 NO NO
L0003990 0 0.15232E-03 731864.8 4059778.8 63.1 3.40 4.00
3.16 NO NO
L0003991 0 0.15232E-03 731865.0 4059770.2 63.1 3.40 4.00
3.16 NO NO
L0003992 0 0.15232E-03 731865.2 4059761.6 63.1 3.40 4.00
3.16 NO NO
L0003993 0 0.15232E-03 731865.4 4059753.0 63.1 3.40 4.00
3.16 NO NO
L0003994 0 0.15232E-03 731865.6 4059744.4 63.1 3.40 4.00
3.16 NO NO
L0003995 0 0.15232E-03 731865.8 4059735.8 63.1 3.40 4.00
3.16 NO NO
L0003996 0 0.15232E-03 731866.0 4059727.2 63.1 3.40 4.00
3.16 NO NO
L0003997 0 0.15232E-03 731866.2 4059718.6 63.1 3.40 4.00
3.16 NO NO
L0003998 0 0.15232E-03 731866.4 4059710.0 63.1 3.40 4.00
3.16 NO NO
L0003999 0 0.15232E-03 731866.6 4059701.4 63.1 3.40 4.00
3.16 NO NO
L0004000 0 0.15232E-03 731866.8 4059692.8 63.1 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT EMISSION RATE SCALAR VARY
L0004001	0	0.15232E-03	731867.0	4059684.2	63.1	3.40	4.00			

```
3.16     NO                    NO
 L0004002         0   0.15232E-03  731867.2 4059675.6    63.1     3.40     4.00
3.16     NO                    NO
 L0004003         0   0.15232E-03  731867.4 4059667.0    63.1     3.40     4.00
3.16     NO                    NO
 L0004004         0   0.15232E-03  731867.6 4059658.4    63.1     3.40     4.00
3.16     NO                    NO
 L0004005         0   0.15232E-03  731867.8 4059649.8    63.1     3.40     4.00
3.16     NO                    NO
 L0004006         0   0.15232E-03  731868.0 4059641.2    63.1     3.40     4.00
3.16     NO                    NO
 L0004007         0   0.15232E-03  731868.2 4059632.6    63.1     3.40     4.00
3.16     NO                    NO
 L0004008         0   0.15232E-03  731868.4 4059624.0    63.1     3.40     4.00
3.16     NO                    NO
 L0004009         0   0.15232E-03  731868.6 4059615.4    63.1     3.40     4.00
3.16     NO                    NO
 L0004010         0   0.15232E-03  731868.8 4059606.8    63.1     3.40     4.00
3.16     NO                    NO
 L0004011         0   0.15232E-03  731869.0 4059598.2    63.1     3.40     4.00
3.16     NO                    NO
 L0004012         0   0.15232E-03  731869.2 4059589.6    63.1     3.40     4.00
3.16     NO                    NO
 L0004013         0   0.15232E-03  731869.4 4059581.0    63.1     3.40     4.00
3.16     NO                    NO
 L0004014         0   0.15232E-03  731869.6 4059572.4    63.2     3.40     4.00
3.16     NO                    NO
 L0004015         0   0.15232E-03  731869.8 4059563.8    63.2     3.40     4.00
3.16     NO                    NO
 L0004016         0   0.15232E-03  731870.0 4059555.2    63.2     3.40     4.00
3.16     NO                    NO
 L0004017         0   0.15232E-03  731870.2 4059546.6    63.2     3.40     4.00
3.16     NO                    NO
 L0004018         0   0.15232E-03  731870.4 4059538.0    63.2     3.40     4.00
3.16     NO                    NO
 L0004019         0   0.15232E-03  731870.6 4059529.4    63.2     3.40     4.00
3.16     NO                    NO
 L0004020         0   0.15232E-03  731870.8 4059520.8    63.2     3.40     4.00
3.16     NO                    NO
 L0004021         0   0.15232E-03  731871.0 4059512.2    63.2     3.40     4.00
3.16     NO                    NO
 L0004022         0   0.15232E-03  731874.6 4059507.3    63.2     3.40     4.00
3.16     NO                    NO
 L0004023         0   0.15232E-03  731883.2 4059507.5    63.1     3.40     4.00
3.16     NO                    NO
 L0004024         0   0.15232E-03  731891.8 4059507.6    63.1     3.40     4.00
3.16     NO                    NO
 L0004025         0   0.15232E-03  731900.4 4059507.8    63.0     3.40     4.00
3.16     NO                    NO
 L0004026         0   0.15232E-03  731909.0 4059508.0    63.0     3.40     4.00
```

3.16   NO   NO
 L0004027   0   0.15232E-03 731917.6 4059508.2   63.0   3.40   4.00
3.16   NO   NO
 L0004028   0   0.15232E-03 731926.2 4059508.4   62.9   3.40   4.00
3.16   NO   NO
 L0004029   0   0.15232E-03 731934.8 4059508.6   62.9   3.40   4.00
3.16   NO   NO
 L0004030   0   0.15232E-03 731943.4 4059508.8   62.9   3.40   4.00
3.16   NO   NO
 L0004031   0   0.15232E-03 731952.0 4059509.0   62.8   3.40   4.00
3.16   NO   NO
 L0004032   0   0.15232E-03 731960.6 4059509.2   62.8   3.40   4.00
3.16   NO   NO
 L0004033   0   0.15232E-03 731969.2 4059509.4   62.8   3.40   4.00
3.16   NO   NO
 L0004034   0   0.15232E-03 731977.8 4059509.6   62.7   3.40   4.00
3.16   NO   NO
 L0004035   0   0.15232E-03 731986.4 4059509.8   62.7   3.40   4.00
3.16   NO   NO
 L0004036   0   0.15232E-03 731995.0 4059510.0   62.7   3.40   4.00
3.16   NO   NO
 L0004037   0   0.15232E-03 732003.6 4059510.2   62.6   3.40   4.00
3.16   NO   NO
 L0004038   0   0.15232E-03 732012.2 4059510.4   62.6   3.40   4.00
3.16   NO   NO
 L0004039   0   0.15232E-03 732020.8 4059510.5   62.6   3.40   4.00
3.16   NO   NO
 L0004040   0   0.15232E-03 732029.4 4059510.7   62.5   3.40   4.00
3.16   NO   NO

                                                    *** VOLUME SOURCE DATA ***

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

 L0004041   0   0.15232E-03 732038.0 4059510.9   62.5   3.40   4.00

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3.16     NO                    NO
 L0004042         0   0.15232E-03  732046.6 4059511.1    62.4     3.40     4.00
3.16     NO                    NO
 L0004043         0   0.15232E-03  732055.2 4059511.3    62.4     3.40     4.00
3.16     NO                    NO
 L0004044         0   0.15232E-03  732063.8 4059511.5    62.4     3.40     4.00
3.16     NO                    NO
 L0004045         0   0.15232E-03  732072.4 4059511.7    62.4     3.40     4.00
3.16     NO                    NO
 L0004046         0   0.15232E-03  732081.0 4059511.9    62.3     3.40     4.00
3.16     NO                    NO
 L0004047         0   0.15232E-03  732089.6 4059512.1    62.3     3.40     4.00
3.16     NO                    NO
 L0004048         0   0.15232E-03  732098.2 4059512.3    62.2     3.40     4.00
3.16     NO                    NO
 L0004049         0   0.15232E-03  732106.8 4059512.5    62.2     3.40     4.00
3.16     NO                    NO
 L0004050         0   0.15232E-03  732115.4 4059512.7    62.2     3.40     4.00
3.16     NO                    NO
 L0004051         0   0.15232E-03  732124.0 4059512.9    62.1     3.40     4.00
3.16     NO                    NO
 L0004052         0   0.15232E-03  732132.6 4059513.1    62.1     3.40     4.00
3.16     NO                    NO
 L0004053         0   0.15232E-03  732141.2 4059513.3    62.1     3.40     4.00
3.16     NO                    NO
 L0004054         0   0.15232E-03  732149.8 4059513.4    62.0     3.40     4.00
3.16     NO                    NO
 L0004055         0   0.15232E-03  732158.4 4059513.6    62.0     3.40     4.00
3.16     NO                    NO
 L0004056         0   0.15232E-03  732167.0 4059513.8    61.9     3.40     4.00
3.16     NO                    NO
 L0004057         0   0.15232E-03  732175.5 4059514.0    61.9     3.40     4.00
3.16     NO                    NO
 L0004058         0   0.15232E-03  732184.1 4059514.2    61.9     3.40     4.00
3.16     NO                    NO
 L0004059         0   0.15232E-03  732192.7 4059514.4    61.8     3.40     4.00
3.16     NO                    NO
 L0004060         0   0.15232E-03  732201.3 4059514.6    61.8     3.40     4.00
3.16     NO                    NO
 L0004061         0   0.15232E-03  732209.9 4059514.8    61.8     3.40     4.00
3.16     NO                    NO
 L0004062         0   0.15232E-03  732218.5 4059515.0    61.8     3.40     4.00
3.16     NO                    NO
 L0004063         0   0.15232E-03  732227.1 4059515.2    61.7     3.40     4.00
3.16     NO                    NO
 L0004064         0   0.15232E-03  732235.7 4059515.4    61.7     3.40     4.00
3.16     NO                    NO
 L0004065         0   0.15232E-03  732244.3 4059515.6    61.7     3.40     4.00
3.16     NO                    NO
 L0004066         0   0.15232E-03  732252.9 4059515.8    61.6     3.40     4.00
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3.16     NO                     NO
 L0004067         0   0.15232E-03  732261.5 4059516.0    61.6     3.40     4.00
3.16     NO                     NO
 L0004068         0   0.15232E-03  732270.1 4059516.2    61.6     3.40     4.00
3.16     NO                     NO
 L0004069         0   0.15232E-03  732278.7 4059516.3    61.6     3.40     4.00
3.16     NO                     NO
 L0004070         0   0.15232E-03  732287.3 4059516.5    61.6     3.40     4.00
3.16     NO                     NO
 L0004071         0   0.15232E-03  732295.9 4059516.7    61.6     3.40     4.00
3.16     NO                     NO
 L0004072         0   0.15232E-03  732304.5 4059516.9    61.5     3.40     4.00
3.16     NO                     NO
 L0004073         0   0.15232E-03  732313.1 4059517.1    61.5     3.40     4.00
3.16     NO                     NO
 L0004074         0   0.15232E-03  732321.7 4059517.3    61.5     3.40     4.00
3.16     NO                     NO
 L0004075         0   0.15232E-03  732330.3 4059517.5    61.5     3.40     4.00
3.16     NO                     NO
 L0004076         0   0.15232E-03  732338.9 4059517.7    61.5     3.40     4.00
3.16     NO                     NO
 L0004077         0   0.15232E-03  732347.5 4059517.9    61.5     3.40     4.00
3.16     NO                     NO
 L0004078         0   0.15232E-03  732356.1 4059518.1    61.4     3.40     4.00
3.16     NO                     NO
 L0004079         0   0.15232E-03  732364.7 4059518.3    61.4     3.40     4.00
3.16     NO                     NO
 L0004080         0   0.15232E-03  732373.3 4059518.5    61.4     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0004081         0   0.15232E-03  732381.9 4059518.7    61.4     3.40     4.00
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3.16     NO                    NO
 L0004082         0   0.15232E-03  732390.5 4059518.9    61.4     3.40     4.00
3.16     NO                    NO
 L0004083         0   0.15232E-03  732399.1 4059519.0    61.3     3.40     4.00
3.16     NO                    NO
 L0004084         0   0.15232E-03  732407.7 4059519.2    61.3     3.40     4.00
3.16     NO                    NO
 L0004085         0   0.15232E-03  732416.3 4059519.4    61.3     3.40     4.00
3.16     NO                    NO
 L0004086         0   0.15232E-03  732424.9 4059519.6    61.3     3.40     4.00
3.16     NO                    NO
 L0004087         0   0.15232E-03  732433.5 4059519.8    61.3     3.40     4.00
3.16     NO                    NO
 L0004088         0   0.15232E-03  732442.1 4059520.0    61.3     3.40     4.00
3.16     NO                    NO
 L0004089         0   0.15232E-03  732450.7 4059520.2    61.2     3.40     4.00
3.16     NO                    NO
 L0004090         0   0.15232E-03  732459.3 4059520.4    61.2     3.40     4.00
3.16     NO                    NO
 L0004091         0   0.15232E-03  732467.9 4059520.6    61.2     3.40     4.00
3.16     NO                    NO
 L0004092         0   0.15232E-03  732476.5 4059520.8    61.2     3.40     4.00
3.16     NO                    NO
 L0004093         0   0.15232E-03  732485.1 4059521.0    61.2     3.40     4.00
3.16     NO                    NO
 L0004094         0   0.15232E-03  732493.7 4059521.2    61.2     3.40     4.00
3.16     NO                    NO
 L0004095         0   0.15232E-03  732502.3 4059521.4    61.1     3.40     4.00
3.16     NO                    NO
 L0004096         0   0.15232E-03  732510.9 4059521.6    61.1     3.40     4.00
3.16     NO                    NO
 L0004097         0   0.15232E-03  732519.5 4059521.8    61.1     3.40     4.00
3.16     NO                    NO
 L0004098         0   0.15232E-03  732528.1 4059521.9    61.1     3.40     4.00
3.16     NO                    NO
 L0004099         0   0.15232E-03  732536.7 4059522.1    61.1     3.40     4.00
3.16     NO                    NO
 L0004100         0   0.15232E-03  732545.3 4059522.3    61.1     3.40     4.00
3.16     NO                    NO
 L0004101         0   0.15232E-03  732553.9 4059522.5    61.0     3.40     4.00
3.16     NO                    NO
 L0004102         0   0.15232E-03  732562.5 4059522.7    61.0     3.40     4.00
3.16     NO                    NO
 L0004103         0   0.15232E-03  732571.0 4059522.9    60.9     3.40     4.00
3.16     NO                    NO
 L0004104         0   0.15232E-03  732579.6 4059523.1    60.9     3.40     4.00
3.16     NO                    NO
 L0004105         0   0.15232E-03  732588.2 4059523.3    60.9     3.40     4.00
3.16     NO                    NO
 L0004106         0   0.15232E-03  732596.8 4059523.5    60.9     3.40     4.00
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3.16 NO NO
L0004107 0 0.15232E-03 732605.4 4059523.7 60.9 3.40 4.00
3.16 NO NO
L0004108 0 0.15232E-03 732614.0 4059523.9 60.9 3.40 4.00
3.16 NO NO
L0004109 0 0.15232E-03 732622.6 4059524.1 60.8 3.40 4.00
3.16 NO NO
L0004110 0 0.15232E-03 732631.2 4059524.3 60.8 3.40 4.00
3.16 NO NO
L0004111 0 0.15232E-03 732639.8 4059524.5 60.8 3.40 4.00
3.16 NO NO
L0004112 0 0.15232E-03 732642.3 4059530.7 60.8 3.40 4.00
3.16 NO NO
L0004113 0 0.15232E-03 732642.3 4059539.3 60.8 3.40 4.00
3.16 NO NO
L0004114 0 0.15232E-03 732642.3 4059547.9 60.8 3.40 4.00
3.16 NO NO
L0004115 0 0.15232E-03 732642.3 4059556.5 60.8 3.40 4.00
3.16 NO NO
L0004116 0 0.15232E-03 732642.3 4059565.1 60.8 3.40 4.00
3.16 NO NO
L0004117 0 0.15232E-03 732642.3 4059573.7 60.8 3.40 4.00
3.16 NO NO
L0004118 0 0.15232E-03 732642.3 4059582.3 60.8 3.40 4.00
3.16 NO NO
L0004119 0 0.15232E-03 732642.3 4059590.9 60.8 3.40 4.00
3.16 NO NO
L0004120 0 0.15232E-03 732642.3 4059599.5 60.8 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT SCALAR VARY BY
L0004121	0	0.15232E-03	732642.3	4059608.1	60.8	3.40	4.00			

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3.16     NO                    NO
 L0004122         0   0.15232E-03  732642.3 4059616.7    60.8     3.40     4.00
3.16     NO                    NO
 L0004123         0   0.15232E-03  732642.3 4059625.3    60.8     3.40     4.00
3.16     NO                    NO
 L0004124         0   0.15232E-03  732642.3 4059633.9    60.8     3.40     4.00
3.16     NO                    NO
 L0004125         0   0.15232E-03  732642.3 4059642.5    60.8     3.40     4.00
3.16     NO                    NO
 L0004126         0   0.15232E-03  732642.3 4059651.1    60.8     3.40     4.00
3.16     NO                    NO
 L0004127         0   0.15232E-03  732642.3 4059659.7    60.8     3.40     4.00
3.16     NO                    NO
 L0004128         0   0.15232E-03  732642.3 4059668.3    60.8     3.40     4.00
3.16     NO                    NO
 L0004129         0   0.15232E-03  732642.3 4059676.9    60.8     3.40     4.00
3.16     NO                    NO
 L0004130         0   0.15232E-03  732642.3 4059685.5    60.8     3.40     4.00
3.16     NO                    NO
 L0004131         0   0.15232E-03  732642.3 4059694.1    60.8     3.40     4.00
3.16     NO                    NO
 L0004132         0   0.15232E-03  732642.3 4059702.7    60.8     3.40     4.00
3.16     NO                    NO
 L0004133         0   0.15232E-03  732642.3 4059711.3    60.8     3.40     4.00
3.16     NO                    NO
 L0004134         0   0.15232E-03  732642.3 4059719.9    60.8     3.40     4.00
3.16     NO                    NO
 L0004135         0   0.15232E-03  732642.3 4059728.5    60.8     3.40     4.00
3.16     NO                    NO
 L0004136         0   0.15232E-03  732642.3 4059737.1    60.8     3.40     4.00
3.16     NO                    NO
 L0004137         0   0.15232E-03  732637.7 4059741.1    60.8     3.40     4.00
3.16     NO                    NO
 L0004138         0   0.15232E-03  732629.1 4059741.0    60.8     3.40     4.00
3.16     NO                    NO
 L0004139         0   0.15232E-03  732620.6 4059740.8    60.8     3.40     4.00
3.16     NO                    NO
 L0004140         0   0.15232E-03  732612.0 4059740.7    60.9     3.40     4.00
3.16     NO                    NO
 L0004141         0   0.15232E-03  732603.4 4059740.6    60.9     3.40     4.00
3.16     NO                    NO
 L0004142         0   0.15232E-03  732594.8 4059740.5    60.9     3.40     4.00
3.16     NO                    NO
 L0004143         0   0.15232E-03  732586.2 4059740.4    60.9     3.40     4.00
3.16     NO                    NO
 L0004144         0   0.15232E-03  732577.6 4059740.3    60.9     3.40     4.00
3.16     NO                    NO
 L0004145         0   0.15232E-03  732569.0 4059740.2    60.9     3.40     4.00
3.16     NO                    NO
 L0004146         0   0.15232E-03  732560.4 4059740.0    61.0     3.40     4.00
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3.16     NO                     NO
 L0004147         0   0.15232E-03  732551.8 4059739.9    61.0     3.40     4.00
3.16     NO                     NO
 L0004148         0   0.15232E-03  732543.2 4059739.8    61.0     3.40     4.00
3.16     NO                     NO
 L0004149         0   0.15232E-03  732534.6 4059739.7    61.0     3.40     4.00
3.16     NO                     NO
 L0004150         0   0.15232E-03  732526.0 4059739.6    61.0     3.40     4.00
3.16     NO                     NO
 L0004151         0   0.15232E-03  732517.4 4059739.5    61.0     3.40     4.00
3.16     NO                     NO
 L0004152         0   0.15232E-03  732508.8 4059739.3    61.1     3.40     4.00
3.16     NO                     NO
 L0004153         0   0.15232E-03  732500.2 4059739.2    61.1     3.40     4.00
3.16     NO                     NO
 L0004154         0   0.15232E-03  732491.6 4059739.1    61.1     3.40     4.00
3.16     NO                     NO
 L0004155         0   0.15232E-03  732483.0 4059739.0    61.2     3.40     4.00
3.16     NO                     NO
 L0004156         0   0.15232E-03  732474.4 4059738.9    61.2     3.40     4.00
3.16     NO                     NO
 L0004157         0   0.15232E-03  732465.8 4059738.8    61.2     3.40     4.00
3.16     NO                     NO
 L0004158         0   0.15232E-03  732457.2 4059738.6    61.2     3.40     4.00
3.16     NO                     NO
 L0004159         0   0.15232E-03  732448.6 4059738.5    61.2     3.40     4.00
3.16     NO                     NO
 L0004160         0   0.15232E-03  732440.0 4059738.4    61.3     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0004161         0   0.15232E-03  732431.4 4059738.3    61.3     3.40     4.00
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3.16     NO                    NO
 L0004162         0   0.15232E-03  732422.8 4059738.2    61.3     3.40     4.00
3.16     NO                    NO
 L0004163         0   0.15232E-03  732414.2 4059738.1    61.3     3.40     4.00
3.16     NO                    NO
 L0004164         0   0.15232E-03  732405.6 4059737.9    61.3     3.40     4.00
3.16     NO                    NO
 L0004165         0   0.15232E-03  732397.0 4059737.8    61.3     3.40     4.00
3.16     NO                    NO
 L0004166         0   0.15232E-03  732388.4 4059737.7    61.4     3.40     4.00
3.16     NO                    NO
 L0004167         0   0.15232E-03  732379.8 4059737.6    61.4     3.40     4.00
3.16     NO                    NO
 L0004168         0   0.15232E-03  732371.2 4059737.5    61.4     3.40     4.00
3.16     NO                    NO
 L0004169         0   0.15232E-03  732362.6 4059737.4    61.4     3.40     4.00
3.16     NO                    NO
 L0004170         0   0.15232E-03  732354.0 4059737.2    61.4     3.40     4.00
3.16     NO                    NO
 L0004171         0   0.15232E-03  732345.4 4059737.1    61.4     3.40     4.00
3.16     NO                    NO
 L0004172         0   0.15232E-03  732336.8 4059737.0    61.5     3.40     4.00
3.16     NO                    NO
 L0004173         0   0.15232E-03  732328.2 4059736.9    61.5     3.40     4.00
3.16     NO                    NO
 L0004174         0   0.15232E-03  732319.6 4059736.8    61.5     3.40     4.00
3.16     NO                    NO
 L0004175         0   0.15232E-03  732311.0 4059736.7    61.5     3.40     4.00
3.16     NO                    NO
 L0004176         0   0.15232E-03  732302.4 4059736.5    61.5     3.40     4.00
3.16     NO                    NO
 L0004177         0   0.15232E-03  732293.8 4059736.4    61.5     3.40     4.00
3.16     NO                    NO
 L0004178         0   0.15232E-03  732285.2 4059736.3    61.6     3.40     4.00
3.16     NO                    NO
 L0004179         0   0.15232E-03  732276.6 4059736.2    61.6     3.40     4.00
3.16     NO                    NO
 L0004180         0   0.15232E-03  732268.0 4059736.1    61.6     3.40     4.00
3.16     NO                    NO
 L0004181         0   0.15232E-03  732259.4 4059736.0    61.7     3.40     4.00
3.16     NO                    NO
 L0004182         0   0.15232E-03  732250.8 4059735.9    61.7     3.40     4.00
3.16     NO                    NO
 L0004183         0   0.15232E-03  732242.2 4059735.7    61.7     3.40     4.00
3.16     NO                    NO
 L0004184         0   0.15232E-03  732233.6 4059735.6    61.7     3.40     4.00
3.16     NO                    NO
 L0004185         0   0.15232E-03  732225.0 4059735.5    61.7     3.40     4.00
3.16     NO                    NO
 L0004186         0   0.15232E-03  732216.4 4059735.4    61.8     3.40     4.00
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3.16     NO                     NO
 L0004187         0   0.15232E-03  732207.8 4059735.3    61.8     3.40     4.00
3.16     NO                     NO
 L0004188         0   0.15232E-03  732199.2 4059735.2    61.8     3.40     4.00
3.16     NO                     NO
 L0004189         0   0.15232E-03  732190.6 4059735.0    61.9     3.40     4.00
3.16     NO                     NO
 L0004190         0   0.15232E-03  732182.0 4059734.9    61.9     3.40     4.00
3.16     NO                     NO
 L0004191         0   0.15232E-03  732173.4 4059734.8    61.9     3.40     4.00
3.16     NO                     NO
 L0004192         0   0.15232E-03  732164.8 4059734.7    62.0     3.40     4.00
3.16     NO                     NO
 L0004193         0   0.15232E-03  732156.2 4059734.6    62.0     3.40     4.00
3.16     NO                     NO
 L0004194         0   0.15232E-03  732147.6 4059734.5    62.0     3.40     4.00
3.16     NO                     NO
 L0004195         0   0.15232E-03  732139.0 4059734.3    62.1     3.40     4.00
3.16     NO                     NO
 L0004196         0   0.15232E-03  732130.4 4059734.2    62.1     3.40     4.00
3.16     NO                     NO
 L0004197         0   0.15232E-03  732121.8 4059734.1    62.1     3.40     4.00
3.16     NO                     NO
 L0004198         0   0.15232E-03  732113.2 4059734.0    62.2     3.40     4.00
3.16     NO                     NO
 L0004199         0   0.15232E-03  732104.6 4059733.9    62.2     3.40     4.00
3.16     NO                     NO
 L0004200         0   0.15232E-03  732096.0 4059733.8    62.2     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
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 L0004201         0   0.15232E-03  732087.4 4059733.6    62.3     3.40     4.00
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3.16     NO                    NO
 L0004202         0   0.15232E-03  732078.8 4059733.5    62.3     3.40     4.00
3.16     NO                    NO
 L0004203         0   0.15232E-03  732070.2 4059733.4    62.3     3.40     4.00
3.16     NO                    NO
 L0004204         0   0.15232E-03  732061.6 4059733.3    62.4     3.40     4.00
3.16     NO                    NO
 L0004205         0   0.15232E-03  732053.0 4059733.2    62.4     3.40     4.00
3.16     NO                    NO
 L0004206         0   0.15232E-03  732044.4 4059733.1    62.4     3.40     4.00
3.16     NO                    NO
 L0004207         0   0.15232E-03  732035.8 4059732.9    62.5     3.40     4.00
3.16     NO                    NO
 L0004208         0   0.15232E-03  732027.2 4059732.8    62.5     3.40     4.00
3.16     NO                    NO
 L0004209         0   0.15232E-03  732018.6 4059732.7    62.5     3.40     4.00
3.16     NO                    NO
 L0004210         0   0.15232E-03  732010.0 4059732.6    62.6     3.40     4.00
3.16     NO                    NO
 L0004211         0   0.15232E-03  732001.4 4059732.5    62.6     3.40     4.00
3.16     NO                    NO
 L0004212         0   0.15232E-03  732001.1 4059724.2    62.6     3.40     4.00
3.16     NO                    NO
 L0004213         0   0.15232E-03  732001.1 4059715.6    62.6     3.40     4.00
3.16     NO                    NO
 L0004214         0   0.15232E-03  732001.1 4059707.0    62.6     3.40     4.00
3.16     NO                    NO
 L0004215         0   0.15232E-03  732001.1 4059698.4    62.6     3.40     4.00
3.16     NO                    NO
 L0004216         0   0.15232E-03  732001.1 4059689.8    62.6     3.40     4.00
3.16     NO                    NO
 L0004217         0   0.15232E-03  732001.1 4059681.2    62.6     3.40     4.00
3.16     NO                    NO
 L0004218         0   0.15232E-03  732001.1 4059672.6    62.6     3.40     4.00
3.16     NO                    NO
 L0004219         0   0.15232E-03  732001.1 4059664.0    62.6     3.40     4.00
3.16     NO                    NO
 L0004220         0   0.15232E-03  732001.1 4059655.4    62.6     3.40     4.00
3.16     NO                    NO
 L0004221         0   0.15232E-03  732001.1 4059646.8    62.6     3.40     4.00
3.16     NO                    NO
 L0004222         0   0.15232E-03  732001.1 4059638.2    62.6     3.40     4.00
3.16     NO                    NO
 L0004223         0   0.15232E-03  732008.6 4059637.0    62.6     3.40     4.00
3.16     NO                    NO
 L0004224         0   0.15232E-03  732017.2 4059636.9    62.6     3.40     4.00
3.16     NO                    NO
 L0004225         0   0.15232E-03  732025.8 4059636.7    62.5     3.40     4.00
3.16     NO                    NO
 L0004226         0   0.15232E-03  732034.4 4059636.6    62.5     3.40     4.00
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3.16   NO   NO
 L0004227   0   0.15232E-03 732043.0 4059636.4   62.5   3.40   4.00
3.16   NO   NO
 L0004228   0   0.15232E-03 732051.6 4059636.3   62.4   3.40   4.00
3.16   NO   NO
 L0004229   0   0.15232E-03 732060.2 4059636.1   62.4   3.40   4.00
3.16   NO   NO
 L0004230   0   0.15232E-03 732068.8 4059636.0   62.3   3.40   4.00
3.16   NO   NO
 L0004231   0   0.15232E-03 732077.4 4059635.8   62.3   3.40   4.00
3.16   NO   NO
 L0004232   0   0.15232E-03 732086.0 4059635.7   62.3   3.40   4.00
3.16   NO   NO
 L0004233   0   0.15232E-03 732094.6 4059635.5   62.3   3.40   4.00
3.16   NO   NO
 L0004234   0   0.15232E-03 732103.2 4059635.4   62.2   3.40   4.00
3.16   NO   NO
 L0004235   0   0.15232E-03 732111.8 4059635.3   62.2   3.40   4.00
3.16   NO   NO
 L0004236   0   0.15232E-03 732120.4 4059635.1   62.1   3.40   4.00
3.16   NO   NO
 L0004237   0   0.15232E-03 732129.0 4059635.0   62.1   3.40   4.00
3.16   NO   NO
 L0004238   0   0.15232E-03 732137.6 4059634.8   62.0   3.40   4.00
3.16   NO   NO
 L0004239   0   0.15232E-03 732146.2 4059634.7   62.0   3.40   4.00
3.16   NO   NO
 L0004240   0   0.15232E-03 732154.8 4059634.5   61.9   3.40   4.00
3.16   NO   NO

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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 L0004241   0   0.15232E-03 732163.4 4059634.4   61.9   3.40   4.00

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3.16     NO                    NO
 L0004242         0   0.15232E-03  732172.0 4059634.2    61.9     3.40     4.00
3.16     NO                    NO
 L0004243         0   0.15232E-03  732180.6 4059634.1    61.8     3.40     4.00
3.16     NO                    NO
 L0004244         0   0.15232E-03  732189.2 4059633.9    61.8     3.40     4.00
3.16     NO                    NO
 L0004245         0   0.15232E-03  732197.8 4059633.8    61.8     3.40     4.00
3.16     NO                    NO
 L0004246         0   0.15232E-03  732206.4 4059633.6    61.8     3.40     4.00
3.16     NO                    NO
 L0004247         0   0.15232E-03  732215.0 4059633.5    61.7     3.40     4.00
3.16     NO                    NO
 L0004248         0   0.15232E-03  732223.6 4059633.3    61.7     3.40     4.00
3.16     NO                    NO
 L0004249         0   0.15232E-03  732232.2 4059633.2    61.7     3.40     4.00
3.16     NO                    NO
 L0004250         0   0.15232E-03  732240.8 4059633.0    61.7     3.40     4.00
3.16     NO                    NO
 L0004251         0   0.15232E-03  732249.4 4059632.9    61.6     3.40     4.00
3.16     NO                    NO
 L0004252         0   0.15232E-03  732258.0 4059632.7    61.6     3.40     4.00
3.16     NO                    NO
 L0004253         0   0.15232E-03  732266.6 4059632.6    61.6     3.40     4.00
3.16     NO                    NO
 L0004254         0   0.15232E-03  732275.2 4059632.4    61.6     3.40     4.00
3.16     NO                    NO
 L0004255         0   0.15232E-03  732283.8 4059632.3    61.6     3.40     4.00
3.16     NO                    NO
 L0004256         0   0.15232E-03  732292.3 4059632.1    61.6     3.40     4.00
3.16     NO                    NO
 L0004257         0   0.15232E-03  732300.9 4059632.0    61.5     3.40     4.00
3.16     NO                    NO
 L0004258         0   0.15232E-03  732309.5 4059631.8    61.5     3.40     4.00
3.16     NO                    NO
 L0004259         0   0.15232E-03  732318.1 4059631.7    61.5     3.40     4.00
3.16     NO                    NO
 L0004260         0   0.15232E-03  732326.7 4059631.5    61.5     3.40     4.00
3.16     NO                    NO
 L0004261         0   0.15232E-03  732335.3 4059631.4    61.5     3.40     4.00
3.16     NO                    NO
 L0004262         0   0.15232E-03  732343.9 4059631.2    61.5     3.40     4.00
3.16     NO                    NO
 L0004263         0   0.15232E-03  732352.5 4059631.1    61.4     3.40     4.00
3.16     NO                    NO
 L0004264         0   0.15232E-03  732361.1 4059631.0    61.4     3.40     4.00
3.16     NO                    NO
 L0004265         0   0.15232E-03  732369.7 4059630.8    61.4     3.40     4.00
3.16     NO                    NO
 L0004266         0   0.15232E-03  732378.3 4059630.7    61.4     3.40     4.00
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3.16 NO NO
L0004267 0 0.15232E-03 732386.9 4059630.5 61.4 3.40 4.00
3.16 NO NO
L0004268 0 0.15232E-03 732395.5 4059630.4 61.3 3.40 4.00
3.16 NO NO
L0004269 0 0.15232E-03 732404.1 4059630.2 61.3 3.40 4.00
3.16 NO NO
L0004270 0 0.15232E-03 732412.7 4059630.1 61.3 3.40 4.00
3.16 NO NO
L0004271 0 0.15232E-03 732421.3 4059629.9 61.3 3.40 4.00
3.16 NO NO
L0004272 0 0.15232E-03 732429.9 4059629.8 61.3 3.40 4.00
3.16 NO NO
L0004273 0 0.15232E-03 732438.5 4059629.6 61.3 3.40 4.00
3.16 NO NO
L0004274 0 0.15232E-03 732447.1 4059629.5 61.2 3.40 4.00
3.16 NO NO
L0004275 0 0.15232E-03 732455.7 4059629.3 61.2 3.40 4.00
3.16 NO NO
L0004276 0 0.15232E-03 732464.3 4059629.2 61.2 3.40 4.00
3.16 NO NO
L0004277 0 0.15232E-03 732472.9 4059629.0 61.2 3.40 4.00
3.16 NO NO
L0004278 0 0.15232E-03 732481.5 4059628.9 61.2 3.40 4.00
3.16 NO NO
L0004279 0 0.15232E-03 732490.1 4059628.7 61.2 3.40 4.00
3.16 NO NO
L0004280 0 0.15232E-03 732498.7 4059628.6 61.1 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY	AIRCRAFT
L0004281	0	0.15232E-03	732651.1	4059355.6	60.8	3.40	4.00				

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3.16     NO                    NO
 L0004282         0   0.15232E-03  732651.4 4059347.0    60.8     3.40     4.00
3.16     NO                    NO
 L0004283         0   0.15232E-03  732651.8 4059338.4    60.8     3.40     4.00
3.16     NO                    NO
 L0004284         0   0.15232E-03  732652.1 4059329.8    60.9     3.40     4.00
3.16     NO                    NO
 L0004285         0   0.15232E-03  732652.4 4059321.2    60.9     3.40     4.00
3.16     NO                    NO
 L0004286         0   0.15232E-03  732652.8 4059312.6    60.9     3.40     4.00
3.16     NO                    NO
 L0004287         0   0.15232E-03  732653.1 4059304.0    60.9     3.40     4.00
3.16     NO                    NO
 L0004288         0   0.15232E-03  732653.4 4059295.4    60.9     3.40     4.00
3.16     NO                    NO
 L0004289         0   0.15232E-03  732653.8 4059286.8    60.9     3.40     4.00
3.16     NO                    NO
 L0004290         0   0.15232E-03  732654.1 4059278.2    60.9     3.40     4.00
3.16     NO                    NO
 L0004291         0   0.15232E-03  732654.4 4059269.6    60.9     3.40     4.00
3.16     NO                    NO
 L0004292         0   0.15232E-03  732654.7 4059261.0    60.9     3.40     4.00
3.16     NO                    NO
 L0004293         0   0.15232E-03  732655.1 4059252.5    60.9     3.40     4.00
3.16     NO                    NO
 L0004294         0   0.15232E-03  732655.4 4059243.9    60.9     3.40     4.00
3.16     NO                    NO
 L0004295         0   0.15232E-03  732655.7 4059235.3    61.0     3.40     4.00
3.16     NO                    NO
 L0004296         0   0.15232E-03  732656.1 4059226.7    61.0     3.40     4.00
3.16     NO                    NO
 L0004297         0   0.15232E-03  732656.4 4059218.1    61.0     3.40     4.00
3.16     NO                    NO
 L0004298         0   0.15232E-03  732656.7 4059209.5    61.0     3.40     4.00
3.16     NO                    NO
 L0004299         0   0.15232E-03  732657.1 4059200.9    61.0     3.40     4.00
3.16     NO                    NO
 L0004300         0   0.15232E-03  732657.4 4059192.3    61.0     3.40     4.00
3.16     NO                    NO
 L0004301         0   0.15232E-03  732657.7 4059183.7    61.0     3.40     4.00
3.16     NO                    NO
 L0004302         0   0.15232E-03  732658.0 4059175.1    61.0     3.40     4.00
3.16     NO                    NO
 L0004303         0   0.15232E-03  732658.4 4059166.5    61.0     3.40     4.00
3.16     NO                    NO
 L0004304         0   0.15232E-03  732658.7 4059157.9    61.0     3.40     4.00
3.16     NO                    NO
 L0004305         0   0.15232E-03  732659.0 4059149.3    61.0     3.40     4.00
3.16     NO                    NO
 L0004306         0   0.15232E-03  732659.4 4059140.7    61.0     3.40     4.00
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3.16     NO                     NO
 L0004307         0   0.15232E-03  732659.7 4059132.1    61.0     3.40     4.00
3.16     NO                     NO
 L0004308         0   0.15232E-03  732660.0 4059123.6    61.1     3.40     4.00
3.16     NO                     NO
 L0004309         0   0.15232E-03  732660.4 4059115.0    61.1     3.40     4.00
3.16     NO                     NO
 L0004310         0   0.15232E-03  732660.7 4059106.4    61.1     3.40     4.00
3.16     NO                     NO
 L0004311         0   0.15232E-03  732661.0 4059097.8    61.1     3.40     4.00
3.16     NO                     NO
 L0004312         0   0.15232E-03  732661.4 4059089.2    61.1     3.40     4.00
3.16     NO                     NO
 L0004313         0   0.15232E-03  732661.7 4059080.6    61.1     3.40     4.00
3.16     NO                     NO
 L0004314         0   0.15232E-03  732662.0 4059072.0    61.1     3.40     4.00
3.16     NO                     NO
 L0004315         0   0.15232E-03  732662.3 4059063.4    61.1     3.40     4.00
3.16     NO                     NO
 L0004316         0   0.15232E-03  732662.7 4059054.8    61.1     3.40     4.00
3.16     NO                     NO
 L0004317         0   0.15232E-03  732663.0 4059046.2    61.1     3.40     4.00
3.16     NO                     NO
 L0004318         0   0.15232E-03  732663.3 4059037.6    61.2     3.40     4.00
3.16     NO                     NO
 L0004319         0   0.15232E-03  732663.7 4059029.0    61.2     3.40     4.00
3.16     NO                     NO
 L0004320         0   0.15232E-03  732664.0 4059020.4    61.2     3.40     4.00
3.16     NO                     NO
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT SCALAR VARY
L0004321	0	0.15232E-03	732664.3	4059011.8	61.2	3.40	4.00			

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3.16     NO                    NO
 L0004322         0   0.15232E-03  732664.7 4059003.2    61.2     3.40     4.00
3.16     NO                    NO
 L0004323         0   0.15232E-03  732665.0 4058994.6    61.2     3.40     4.00
3.16     NO                    NO
 L0004324         0   0.15232E-03  732665.3 4058986.1    61.2     3.40     4.00
3.16     NO                    NO
 L0004325         0   0.15232E-03  732665.6 4058977.5    61.2     3.40     4.00
3.16     NO                    NO
 L0004326         0   0.15232E-03  732666.0 4058968.9    61.2     3.40     4.00
3.16     NO                    NO
 L0004327         0   0.15232E-03  732666.3 4058960.3    61.2     3.40     4.00
3.16     NO                    NO
 L0004328         0   0.15232E-03  732666.6 4058951.7    61.2     3.40     4.00
3.16     NO                    NO
 L0004329         0   0.15232E-03  732667.0 4058943.1    61.3     3.40     4.00
3.16     NO                    NO
 L0004330         0   0.15232E-03  732667.3 4058934.5    61.3     3.40     4.00
3.16     NO                    NO
 L0004331         0   0.15232E-03  732667.6 4058925.9    61.3     3.40     4.00
3.16     NO                    NO
 L0004332         0   0.15232E-03  732668.0 4058917.3    61.3     3.40     4.00
3.16     NO                    NO
 L0004333         0   0.15232E-03  732668.3 4058908.7    61.3     3.40     4.00
3.16     NO                    NO
 L0004334         0   0.15232E-03  732668.6 4058900.1    61.3     3.40     4.00
3.16     NO                    NO
 L0004335         0   0.15232E-03  732669.0 4058891.5    61.3     3.40     4.00
3.16     NO                    NO
 L0004336         0   0.15232E-03  732669.3 4058882.9    61.3     3.40     4.00
3.16     NO                    NO
 L0004337         0   0.15232E-03  732669.6 4058874.3    61.3     3.40     4.00
3.16     NO                    NO
 L0004338         0   0.15232E-03  732669.9 4058865.7    61.3     3.40     4.00
3.16     NO                    NO
 L0004339         0   0.15232E-03  732670.3 4058857.1    61.3     3.40     4.00
3.16     NO                    NO
 L0004340         0   0.15232E-03  732670.6 4058848.6    61.3     3.40     4.00
3.16     NO                    NO
 L0004341         0   0.15232E-03  732670.9 4058840.0    61.4     3.40     4.00
3.16     NO                    NO
 L0004342         0   0.15232E-03  732671.3 4058831.4    61.4     3.40     4.00
3.16     NO                    NO
 L0004343         0   0.15232E-03  732671.6 4058822.8    61.4     3.40     4.00
3.16     NO                    NO
 L0004344         0   0.15232E-03  732671.9 4058814.2    61.4     3.40     4.00
3.16     NO                    NO
 L0004345         0   0.15232E-03  732672.3 4058805.6    61.4     3.40     4.00
3.16     NO                    NO
 L0004346         0   0.15232E-03  732672.6 4058797.0    61.4     3.40     4.00
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3.16     NO                     NO
 L0004347         0   0.15232E-03  732672.9 4058788.4    61.4     3.40     4.00
3.16     NO                     NO
 L0004348         0   0.15232E-03  732673.3 4058779.8    61.4     3.40     4.00
3.16     NO                     NO
 L0004349         0   0.15232E-03  732673.6 4058771.2    61.4     3.40     4.00
3.16     NO                     NO
 L0004350         0   0.15232E-03  732673.9 4058762.6    61.4     3.40     4.00
3.16     NO                     NO
 L0004351         0   0.15232E-03  732674.2 4058754.0    61.4     3.40     4.00
3.16     NO                     NO
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3.16     NO                     NO
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3.16     NO                     NO
 L0004354         0   0.15232E-03  732675.2 4058728.2    61.4     3.40     4.00
3.16     NO                     NO
 L0004355         0   0.15232E-03  732675.6 4058719.6    61.4     3.40     4.00
3.16     NO                     NO
 L0004356         0   0.15232E-03  732675.9 4058711.1    61.4     3.40     4.00
3.16     NO                     NO
 L0004357         0   0.15232E-03  732676.2 4058702.5    61.4     3.40     4.00
3.16     NO                     NO
 L0004358         0   0.15232E-03  732676.6 4058693.9    61.4     3.40     4.00
3.16     NO                     NO
 L0004359         0   0.15232E-03  732676.9 4058685.3    61.4     3.40     4.00
3.16     NO                     NO
 L0004360         0   0.15232E-03  732677.2 4058676.7    61.4     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE 111
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0004361         0   0.15232E-03  732677.5 4058668.1    61.4     3.40     4.00
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3.16     NO                    NO
 L0004362         0   0.15232E-03  732677.9 4058659.5    61.5     3.40     4.00
3.16     NO                    NO
 L0004363         0   0.15232E-03  732678.2 4058650.9    61.5     3.40     4.00
3.16     NO                    NO
 L0004364         0   0.15232E-03  732678.5 4058642.3    61.5     3.40     4.00
3.16     NO                    NO
 L0004365         0   0.15232E-03  732678.9 4058633.7    61.5     3.40     4.00
3.16     NO                    NO
 L0004366         0   0.15232E-03  732679.2 4058625.1    61.5     3.40     4.00
3.16     NO                    NO
 L0004367         0   0.15232E-03  732679.5 4058616.5    61.5     3.40     4.00
3.16     NO                    NO
 L0004368         0   0.15232E-03  732679.9 4058607.9    61.5     3.40     4.00
3.16     NO                    NO
 L0004369         0   0.15232E-03  732680.2 4058599.3    61.5     3.40     4.00
3.16     NO                    NO
 L0004370         0   0.15232E-03  732680.5 4058590.7    61.5     3.40     4.00
3.16     NO                    NO
 L0004371         0   0.15232E-03  732680.9 4058582.2    61.5     3.40     4.00
3.16     NO                    NO
 L0004372         0   0.15232E-03  732681.2 4058573.6    61.5     3.40     4.00
3.16     NO                    NO
 L0004373         0   0.15232E-03  732681.5 4058565.0    61.5     3.40     4.00
3.16     NO                    NO
 L0004374         0   0.15232E-03  732681.8 4058556.4    61.5     3.40     4.00
3.16     NO                    NO
 L0004375         0   0.15232E-03  732682.2 4058547.8    61.5     3.40     4.00
3.16     NO                    NO
 L0004376         0   0.15232E-03  732682.5 4058539.2    61.5     3.40     4.00
3.16     NO                    NO
 L0004377         0   0.15232E-03  732682.8 4058530.6    61.5     3.40     4.00
3.16     NO                    NO
 L0004378         0   0.15232E-03  732683.2 4058522.0    61.5     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0004380         0   0.15232E-03  732683.8 4058504.8    61.5     3.40     4.00
3.16     NO                    NO
 L0004381         0   0.15232E-03  732684.2 4058496.2    61.5     3.40     4.00
3.16     NO                    NO
 L0004382         0   0.15232E-03  732684.5 4058487.6    61.5     3.40     4.00
3.16     NO                    NO
 L0004383         0   0.15232E-03  732684.8 4058479.0    61.5     3.40     4.00
3.16     NO                    NO
 L0004384         0   0.15232E-03  732685.2 4058470.4    61.5     3.40     4.00
3.16     NO                    NO
 L0004385         0   0.15232E-03  732685.5 4058461.8    61.6     3.40     4.00
3.16     NO                    NO
 L0004386         0   0.15232E-03  732685.8 4058453.2    61.6     3.40     4.00
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3.16     NO                     NO
 L0004387         0   0.15232E-03  732686.1 4058444.7    61.6     3.40     4.00
3.16     NO                     NO
 L0004388         0   0.15232E-03  732686.5 4058436.1    61.6     3.40     4.00
3.16     NO                     NO
 L0004389         0   0.15232E-03  732686.8 4058427.5    61.6     3.40     4.00
3.16     NO                     NO
 L0004390         0   0.15232E-03  732687.1 4058418.9    61.6     3.40     4.00
3.16     NO                     NO
 L0004391         0   0.15232E-03  732687.5 4058410.3    61.6     3.40     4.00
3.16     NO                     NO
 L0004392         0   0.15232E-03  732687.8 4058401.7    61.6     3.40     4.00
3.16     NO                     NO
 L0004393         0   0.15232E-03  732688.1 4058393.1    61.6     3.40     4.00
3.16     NO                     NO
 L0004394         0   0.15232E-03  732688.5 4058384.5    61.6     3.40     4.00
3.16     NO                     NO
 L0004395         0   0.15232E-03  732688.8 4058375.9    61.6     3.40     4.00
3.16     NO                     NO
 L0004396         0   0.15232E-03  732689.1 4058367.3    61.6     3.40     4.00
3.16     NO                     NO
 L0004397         0   0.15232E-03  732689.4 4058358.7    61.6     3.40     4.00
3.16     NO                     NO
 L0004398         0   0.15232E-03  732689.8 4058350.1    61.6     3.40     4.00
3.16     NO                     NO
 L0004399         0   0.15232E-03  732690.1 4058341.5    61.6     3.40     4.00
3.16     NO                     NO
 L0004400         0   0.15232E-03  732690.4 4058332.9    61.6     3.40     4.00
3.16     NO                     NO
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*** VOLUME SOURCE DATA ***

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

 L0004401         0   0.15232E-03  732690.8 4058324.3    61.6     3.40     4.00
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3.16     NO                    NO
 L0004402         0   0.15232E-03  732691.1 4058315.7    61.6     3.40     4.00
3.16     NO                    NO
 L0004403         0   0.15232E-03  732691.4 4058307.2    61.6     3.40     4.00
3.16     NO                    NO
 L0004404         0   0.15232E-03  732691.8 4058298.6    61.6     3.40     4.00
3.16     NO                    NO
 L0004405         0   0.15232E-03  732692.1 4058290.0    61.6     3.40     4.00
3.16     NO                    NO
 L0004406         0   0.15232E-03  732692.4 4058281.4    61.6     3.40     4.00
3.16     NO                    NO
 L0004407         0   0.15232E-03  732692.8 4058272.8    61.6     3.40     4.00
3.16     NO                    NO
 L0004408         0   0.15232E-03  732693.1 4058264.2    61.6     3.40     4.00
3.16     NO                    NO
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3.16     NO                    NO
 L0004410         0   0.15232E-03  732693.7 4058247.0    61.6     3.40     4.00
3.16     NO                    NO
 L0004411         0   0.15232E-03  732694.1 4058238.4    61.6     3.40     4.00
3.16     NO                    NO
 L0004412         0   0.15232E-03  732694.4 4058229.8    61.7     3.40     4.00
3.16     NO                    NO
 L0004413         0   0.15232E-03  732694.7 4058221.2    61.7     3.40     4.00
3.16     NO                    NO
 L0004414         0   0.15232E-03  732695.1 4058212.6    61.7     3.40     4.00
3.16     NO                    NO
 L0004415         0   0.15232E-03  732695.4 4058204.0    61.7     3.40     4.00
3.16     NO                    NO
 L0004416         0   0.15232E-03  732695.7 4058195.4    61.7     3.40     4.00
3.16     NO                    NO
 L0004417         0   0.15232E-03  732696.1 4058186.8    61.7     3.40     4.00
3.16     NO                    NO
 L0004418         0   0.15232E-03  732696.4 4058178.2    61.7     3.40     4.00
3.16     NO                    NO
 L0004419         0   0.15232E-03  732696.7 4058169.7    61.7     3.40     4.00
3.16     NO                    NO
 L0004420         0   0.15232E-03  732697.0 4058161.1    61.7     3.40     4.00
3.16     NO                    NO
 L0004421         0   0.15232E-03  732697.4 4058152.5    61.7     3.40     4.00
3.16     NO                    NO
 L0004422         0   0.15232E-03  732697.7 4058143.9    61.7     3.40     4.00
3.16     NO                    NO
 L0004423         0   0.15232E-03  732698.0 4058135.3    61.7     3.40     4.00
3.16     NO                    NO
 L0004424         0   0.15232E-03  732698.4 4058126.7    61.7     3.40     4.00
3.16     NO                    NO
 L0004425         0   0.15232E-03  732698.7 4058118.1    61.7     3.40     4.00
3.16     NO                    NO
 L0004426         0   0.15232E-03  732699.0 4058109.5    61.7     3.40     4.00
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3.16     NO                     NO
 L0004427         0   0.15232E-03  732699.4 4058100.9    61.7     3.40     4.00
3.16     NO                     NO
 L0004428         0   0.15232E-03  732699.7 4058092.3    61.7     3.40     4.00
3.16     NO                     NO
 L0004429         0   0.15232E-03  732700.0 4058083.7    61.7     3.40     4.00
3.16     NO                     NO
 L0004430         0   0.15232E-03  732700.4 4058075.1    61.7     3.40     4.00
3.16     NO                     NO
 L0004431         0   0.15232E-03  732700.7 4058066.5    61.8     3.40     4.00
3.16     NO                     NO
 L0004432         0   0.15232E-03  732701.0 4058057.9    61.8     3.40     4.00
3.16     NO                     NO
 L0004433         0   0.15232E-03  732701.3 4058049.3    61.8     3.40     4.00
3.16     NO                     NO
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3.16     NO                     NO
 L0004435         0   0.15232E-03  732702.0 4058032.2    61.8     3.40     4.00
3.16     NO                     NO
 L0004436         0   0.15232E-03  732702.3 4058023.6    61.8     3.40     4.00
3.16     NO                     NO
 L0004437         0   0.15232E-03  732702.7 4058015.0    61.8     3.40     4.00
3.16     NO                     NO
 L0004438         0   0.15232E-03  732859.1 4056704.1    61.7     3.40     4.00
3.16     NO                     NO
 L0004439         0   0.15232E-03  732859.5 4056695.5    61.7     3.40     4.00
3.16     NO                     NO
 L0004440         0   0.15232E-03  732859.8 4056686.9    61.7     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE 113
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0004441         0   0.15232E-03  732860.2 4056678.3    61.7     3.40     4.00
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3.16     NO                    NO
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3.16     NO                    NO
 L0004443         0   0.15232E-03  732861.0 4056661.1    61.7     3.40     4.00
3.16     NO                    NO
 L0004444         0   0.15232E-03  732861.3 4056652.5    61.7     3.40     4.00
3.16     NO                    NO
 L0004445         0   0.15232E-03  732861.7 4056643.9    61.7     3.40     4.00
3.16     NO                    NO
 L0004446         0   0.15232E-03  732862.1 4056635.3    61.7     3.40     4.00
3.16     NO                    NO
 L0004447         0   0.15232E-03  732862.5 4056626.7    61.7     3.40     4.00
3.16     NO                    NO
 L0004448         0   0.15232E-03  732862.8 4056618.1    61.7     3.40     4.00
3.16     NO                    NO
 L0004449         0   0.15232E-03  732863.2 4056609.5    61.7     3.40     4.00
3.16     NO                    NO
 L0004450         0   0.15232E-03  732863.6 4056601.0    61.7     3.40     4.00
3.16     NO                    NO
 L0004451         0   0.15232E-03  732863.9 4056592.4    61.7     3.40     4.00
3.16     NO                    NO
 L0004452         0   0.15232E-03  732864.3 4056583.8    61.7     3.40     4.00
3.16     NO                    NO
 L0004453         0   0.15232E-03  732864.7 4056575.2    61.7     3.40     4.00
3.16     NO                    NO
 L0004454         0   0.15232E-03  732865.1 4056566.6    61.7     3.40     4.00
3.16     NO                    NO
 L0004455         0   0.15232E-03  732865.4 4056558.0    61.7     3.40     4.00
3.16     NO                    NO
 L0004456         0   0.15232E-03  732865.8 4056549.4    61.7     3.40     4.00
3.16     NO                    NO
 L0004457         0   0.15232E-03  732866.2 4056540.8    61.7     3.40     4.00
3.16     NO                    NO
 L0004458         0   0.15232E-03  732866.6 4056532.2    61.7     3.40     4.00
3.16     NO                    NO
 L0004459         0   0.15232E-03  732866.9 4056523.6    61.7     3.40     4.00
3.16     NO                    NO
 L0004460         0   0.15232E-03  732867.3 4056515.0    61.7     3.40     4.00
3.16     NO                    NO
 L0004461         0   0.15232E-03  732867.7 4056506.4    61.7     3.40     4.00
3.16     NO                    NO
 L0004462         0   0.15232E-03  732868.1 4056497.9    61.7     3.40     4.00
3.16     NO                    NO
 L0004463         0   0.15232E-03  732868.4 4056489.3    61.7     3.40     4.00
3.16     NO                    NO
 L0004464         0   0.15232E-03  732868.8 4056480.7    61.7     3.40     4.00
3.16     NO                    NO
 L0004465         0   0.15232E-03  732869.2 4056472.1    61.6     3.40     4.00
3.16     NO                    NO
 L0004466         0   0.15232E-03  732869.6 4056463.5    61.6     3.40     4.00
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3.16 NO NO
L0004467 0 0.15232E-03 732869.9 4056454.9 61.6 3.40 4.00
3.16 NO NO
L0004468 0 0.15232E-03 732870.3 4056446.3 61.6 3.40 4.00
3.16 NO NO
L0004469 0 0.15232E-03 732870.7 4056437.7 61.6 3.40 4.00
3.16 NO NO
L0004470 0 0.15232E-03 732871.0 4056429.1 61.6 3.40 4.00
3.16 NO NO
L0004471 0 0.15232E-03 732871.4 4056420.5 61.6 3.40 4.00
3.16 NO NO
L0004472 0 0.15232E-03 732871.8 4056411.9 61.6 3.40 4.00
3.16 NO NO
L0004473 0 0.15232E-03 732872.2 4056403.3 61.6 3.40 4.00
3.16 NO NO
L0004474 0 0.15232E-03 732872.5 4056394.8 61.6 3.40 4.00
3.16 NO NO
L0004475 0 0.15232E-03 732872.9 4056386.2 61.6 3.40 4.00
3.16 NO NO
L0004476 0 0.15232E-03 732873.3 4056377.6 61.6 3.40 4.00
3.16 NO NO
L0004477 0 0.15232E-03 732873.7 4056369.0 61.6 3.40 4.00
3.16 NO NO
L0004478 0 0.15232E-03 732874.0 4056360.4 61.6 3.40 4.00
3.16 NO NO
L0004479 0 0.15232E-03 732874.4 4056351.8 61.6 3.40 4.00
3.16 NO NO
L0004480 0 0.15232E-03 732874.8 4056343.2 61.6 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY	AIRCRAFT
L0004481	0	0.15232E-03	732875.2	4056334.6	61.6	3.40	4.00				

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3.16     NO                    NO
 L0004482         0   0.15232E-03  732875.5 4056326.0    61.6     3.40     4.00
3.16     NO                    NO
 L0004483         0   0.15232E-03  732875.9 4056317.4    61.6     3.40     4.00
3.16     NO                    NO
 L0004484         0   0.15232E-03  732875.3 4056309.7    61.6     3.40     4.00
3.16     NO                    NO
 L0004485         0   0.15232E-03  732866.7 4056309.2    61.7     3.40     4.00
3.16     NO                    NO
 L0004486         0   0.15232E-03  732858.1 4056308.8    61.7     3.40     4.00
3.16     NO                    NO
 L0004487         0   0.15232E-03  732849.5 4056308.3    61.7     3.40     4.00
3.16     NO                    NO
 L0004488         0   0.15232E-03  732841.0 4056307.8    61.7     3.40     4.00
3.16     NO                    NO
 L0004489         0   0.15232E-03  732832.4 4056307.4    61.7     3.40     4.00
3.16     NO                    NO
 L0004490         0   0.15232E-03  732823.8 4056306.9    61.7     3.40     4.00
3.16     NO                    NO
 L0004491         0   0.15232E-03  732815.2 4056306.4    61.8     3.40     4.00
3.16     NO                    NO
 L0004492         0   0.15232E-03  732806.6 4056306.0    61.8     3.40     4.00
3.16     NO                    NO
 L0004493         0   0.15232E-03  732798.0 4056305.5    61.8     3.40     4.00
3.16     NO                    NO
 L0004494         0   0.15232E-03  732789.4 4056305.0    61.8     3.40     4.00
3.16     NO                    NO
 L0004495         0   0.15232E-03  732780.8 4056304.6    61.8     3.40     4.00
3.16     NO                    NO
 L0004496         0   0.15232E-03  732772.3 4056304.1    61.9     3.40     4.00
3.16     NO                    NO
 L0004497         0   0.15232E-03  732763.7 4056303.6    61.9     3.40     4.00
3.16     NO                    NO
 L0004498         0   0.15232E-03  732755.1 4056303.2    61.9     3.40     4.00
3.16     NO                    NO
 L0004499         0   0.15232E-03  732746.5 4056302.7    61.9     3.40     4.00
3.16     NO                    NO
 L0004500         0   0.15232E-03  732737.9 4056302.2    61.9     3.40     4.00
3.16     NO                    NO
 L0004501         0   0.15232E-03  732729.3 4056301.8    61.9     3.40     4.00
3.16     NO                    NO
 L0004502         0   0.15232E-03  732720.7 4056301.3    62.0     3.40     4.00
3.16     NO                    NO
 L0004503         0   0.15232E-03  732712.1 4056300.8    62.0     3.40     4.00
3.16     NO                    NO
 L0004504         0   0.15232E-03  732703.6 4056300.4    62.0     3.40     4.00
3.16     NO                    NO
 L0004505         0   0.15232E-03  732695.0 4056299.9    62.0     3.40     4.00
3.16     NO                    NO
 L0004506         0   0.15232E-03  732686.4 4056299.4    62.1     3.40     4.00
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3.16 NO NO
L0004507 0 0.15232E-03 732677.8 4056299.0 62.1 3.40 4.00
3.16 NO NO
L0004508 0 0.15232E-03 732669.2 4056298.5 62.1 3.40 4.00
3.16 NO NO
L0004509 0 0.15232E-03 732660.6 4056298.0 62.1 3.40 4.00
3.16 NO NO
L0004510 0 0.15232E-03 732652.0 4056297.6 62.1 3.40 4.00
3.16 NO NO
L0004511 0 0.15232E-03 732643.4 4056297.1 62.2 3.40 4.00
3.16 NO NO
L0004512 0 0.15232E-03 732634.9 4056296.6 62.2 3.40 4.00
3.16 NO NO
L0004513 0 0.15232E-03 732626.3 4056296.2 62.2 3.40 4.00
3.16 NO NO
L0004514 0 0.15232E-03 732617.7 4056295.7 62.2 3.40 4.00
3.16 NO NO
L0004515 0 0.15232E-03 732609.1 4056295.2 62.2 3.40 4.00
3.16 NO NO
L0004516 0 0.15232E-03 732600.5 4056294.8 62.2 3.40 4.00
3.16 NO NO
L0004517 0 0.15232E-03 732591.9 4056294.3 62.3 3.40 4.00
3.16 NO NO
L0004518 0 0.15232E-03 732583.3 4056293.8 62.3 3.40 4.00
3.16 NO NO
L0004519 0 0.15232E-03 732574.8 4056293.4 62.3 3.40 4.00
3.16 NO NO
L0004520 0 0.15232E-03 732566.2 4056292.9 62.4 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT EMISSION RATE SCALAR VARY
L0004521	0	0.15232E-03	732557.6	4056292.4	62.4	3.40	4.00			

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3.16     NO                    NO
 L0004522         0   0.15232E-03  732549.0 4056292.0    62.4     3.40     4.00
3.16     NO                    NO
 L0004523         0   0.15232E-03  732540.4 4056291.5    62.4     3.40     4.00
3.16     NO                    NO
 L0004524         0   0.15232E-03  732531.8 4056291.0    62.4     3.40     4.00
3.16     NO                    NO
 L0004525         0   0.15232E-03  732523.2 4056290.6    62.4     3.40     4.00
3.16     NO                    NO
 L0004526         0   0.15232E-03  732514.6 4056290.1    62.5     3.40     4.00
3.16     NO                    NO
 L0004527         0   0.15232E-03  732506.1 4056289.6    62.5     3.40     4.00
3.16     NO                    NO
 L0004528         0   0.15232E-03  732497.5 4056289.2    62.5     3.40     4.00
3.16     NO                    NO
 L0004529         0   0.15232E-03  732488.9 4056288.7    62.5     3.40     4.00
3.16     NO                    NO
 L0004530         0   0.15232E-03  732480.3 4056288.2    62.5     3.40     4.00
3.16     NO                    NO
 L0004531         0   0.15232E-03  732471.7 4056287.8    62.6     3.40     4.00
3.16     NO                    NO
 L0004532         0   0.15232E-03  732463.1 4056287.3    62.6     3.40     4.00
3.16     NO                    NO
 L0004533         0   0.15232E-03  732454.5 4056286.8    62.6     3.40     4.00
3.16     NO                    NO
 L0004534         0   0.15232E-03  732445.9 4056286.4    62.6     3.40     4.00
3.16     NO                    NO
 L0004535         0   0.15232E-03  732437.4 4056285.9    62.7     3.40     4.00
3.16     NO                    NO
 L0004536         0   0.15232E-03  732428.8 4056285.4    62.7     3.40     4.00
3.16     NO                    NO
 L0004537         0   0.15232E-03  732420.2 4056285.0    62.7     3.40     4.00
3.16     NO                    NO
 L0004538         0   0.15232E-03  732411.6 4056284.5    62.7     3.40     4.00
3.16     NO                    NO
 L0004539         0   0.15232E-03  732403.0 4056284.0    62.7     3.40     4.00
3.16     NO                    NO
 L0004540         0   0.15232E-03  732394.4 4056283.6    62.8     3.40     4.00
3.16     NO                    NO
 L0004541         0   0.15232E-03  732385.8 4056283.1    62.8     3.40     4.00
3.16     NO                    NO
 L0004542         0   0.15232E-03  732377.2 4056282.6    62.8     3.40     4.00
3.16     NO                    NO
 L0004543         0   0.15232E-03  732368.7 4056282.2    62.8     3.40     4.00
3.16     NO                    NO
 L0004544         0   0.15232E-03  732360.1 4056281.7    62.8     3.40     4.00
3.16     NO                    NO
 L0004545         0   0.15232E-03  732351.5 4056281.2    62.8     3.40     4.00
3.16     NO                    NO
 L0004546         0   0.15232E-03  732342.9 4056280.8    62.9     3.40     4.00
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3.16     NO                     NO
 L0004547         0   0.15232E-03  732334.3 4056280.3    62.9     3.40     4.00
3.16     NO                     NO
 L0004548         0   0.15232E-03  732325.7 4056279.8    62.9     3.40     4.00
3.16     NO                     NO
 L0004549         0   0.15232E-03  732317.1 4056279.4    62.9     3.40     4.00
3.16     NO                     NO
 L0004550         0   0.15232E-03  732308.5 4056278.9    63.0     3.40     4.00
3.16     NO                     NO
 L0004551         0   0.15232E-03  732300.0 4056278.4    63.0     3.40     4.00
3.16     NO                     NO
 L0004552         0   0.15232E-03  732291.4 4056278.0    63.0     3.40     4.00
3.16     NO                     NO
 L0004553         0   0.15232E-03  732282.8 4056277.5    63.0     3.40     4.00
3.16     NO                     NO
 L0004554         0   0.15232E-03  732274.2 4056277.0    63.0     3.40     4.00
3.16     NO                     NO
 L0004555         0   0.15232E-03  732265.6 4056276.6    63.0     3.40     4.00
3.16     NO                     NO
 L0004556         0   0.15232E-03  732257.0 4056276.1    63.1     3.40     4.00
3.16     NO                     NO
 L0004557         0   0.15232E-03  732248.4 4056275.6    63.1     3.40     4.00
3.16     NO                     NO
 L0004558         0   0.15232E-03  732239.8 4056275.2    63.1     3.40     4.00
3.16     NO                     NO
 L0004559         0   0.15232E-03  732231.3 4056274.7    63.1     3.40     4.00
3.16     NO                     NO
 L0004560         0   0.15232E-03  732222.7 4056274.2    63.1     3.40     4.00
3.16     NO                     NO
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*** VOLUME SOURCE DATA ***

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

 L0004561         0   0.15232E-03  732214.1 4056273.8    63.2     3.40     4.00
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3.16     NO                    NO
 L0004562         0   0.15232E-03  732205.5 4056273.3    63.2     3.40     4.00
3.16     NO                    NO
 L0004563         0   0.15232E-03  732196.9 4056272.8    63.2     3.40     4.00
3.16     NO                    NO
 L0004564         0   0.15232E-03  732188.3 4056272.4    63.2     3.40     4.00
3.16     NO                    NO
 L0004565         0   0.15232E-03  732179.7 4056271.9    63.2     3.40     4.00
3.16     NO                    NO
 L0004566         0   0.15232E-03  732171.1 4056271.4    63.3     3.40     4.00
3.16     NO                    NO
 L0004567         0   0.15232E-03  732162.6 4056271.0    63.3     3.40     4.00
3.16     NO                    NO
 L0004568         0   0.15232E-03  732154.0 4056270.5    63.3     3.40     4.00
3.16     NO                    NO
 L0004569         0   0.15232E-03  732145.4 4056270.0    63.3     3.40     4.00
3.16     NO                    NO
 L0004570         0   0.15232E-03  732136.8 4056269.6    63.3     3.40     4.00
3.16     NO                    NO
 L0004571         0   0.15232E-03  732128.2 4056269.1    63.3     3.40     4.00
3.16     NO                    NO
 L0004572         0   0.15232E-03  732119.6 4056268.6    63.4     3.40     4.00
3.16     NO                    NO
 L0004573         0   0.15232E-03  732111.0 4056268.2    63.4     3.40     4.00
3.16     NO                    NO
 L0004574         0   0.15232E-03  732102.4 4056267.7    63.4     3.40     4.00
3.16     NO                    NO
 L0004575         0   0.15232E-03  732093.9 4056267.2    63.4     3.40     4.00
3.16     NO                    NO
 L0004576         0   0.15232E-03  732085.3 4056266.8    63.4     3.40     4.00
3.16     NO                    NO
 L0004577         0   0.15232E-03  732079.1 4056264.1    63.4     3.40     4.00
3.16     NO                    NO
 L0004578         0   0.15232E-03  732079.3 4056255.5    63.4     3.40     4.00
3.16     NO                    NO
 L0004579         0   0.15232E-03  732079.6 4056246.9    63.4     3.40     4.00
3.16     NO                    NO
 L0004580         0   0.15232E-03  732079.8 4056238.3    63.4     3.40     4.00
3.16     NO                    NO
 L0004581         0   0.15232E-03  732080.0 4056229.7    63.4     3.40     4.00
3.16     NO                    NO
 L0004582         0   0.15232E-03  732080.2 4056221.1    63.4     3.40     4.00
3.16     NO                    NO
 L0004583         0   0.15232E-03  732080.5 4056212.5    63.4     3.40     4.00
3.16     NO                    NO
 L0004584         0   0.15232E-03  732080.7 4056203.9    63.4     3.40     4.00
3.16     NO                    NO
 L0004585         0   0.15232E-03  732080.9 4056195.3    63.4     3.40     4.00
3.16     NO                    NO
 L0004586         0   0.15232E-03  732081.2 4056186.7    63.4     3.40     4.00
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3.16     NO                     NO
 L0004587         0   0.15232E-03  732081.4 4056178.1    63.3     3.40     4.00
3.16     NO                     NO
 L0004588         0   0.15232E-03  732081.6 4056169.5    63.3     3.40     4.00
3.16     NO                     NO
 L0004589         0   0.15232E-03  732081.8 4056160.9    63.3     3.40     4.00
3.16     NO                     NO
 L0004590         0   0.15232E-03  732082.1 4056152.3    63.3     3.40     4.00
3.16     NO                     NO
 L0004591         0   0.15232E-03  732082.3 4056143.7    63.3     3.40     4.00
3.16     NO                     NO
 L0004592         0   0.15232E-03  732082.5 4056135.1    63.3     3.40     4.00
3.16     NO                     NO
 L0004593         0   0.15232E-03  732082.8 4056126.5    63.3     3.40     4.00
3.16     NO                     NO
 L0004594         0   0.15232E-03  732083.0 4056117.9    63.3     3.40     4.00
3.16     NO                     NO
 L0004595         0   0.15232E-03  732083.2 4056109.3    63.3     3.40     4.00
3.16     NO                     NO
 L0004596         0   0.15232E-03  732083.4 4056100.7    63.3     3.40     4.00
3.16     NO                     NO
 L0004597         0   0.15232E-03  732083.7 4056092.1    63.3     3.40     4.00
3.16     NO                     NO
 L0004598         0   0.15232E-03  732083.9 4056083.5    63.3     3.40     4.00
3.16     NO                     NO
 L0004599         0   0.15232E-03  732084.1 4056074.9    63.3     3.40     4.00
3.16     NO                     NO
 L0004600         0   0.15232E-03  732084.4 4056066.3    63.3     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0004601         0   0.15232E-03  732084.6 4056057.7    63.2     3.40     4.00
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3.16     NO                    NO
 L0004602         0   0.15232E-03  732084.8 4056049.1    63.2     3.40     4.00
3.16     NO                    NO
 L0004603         0   0.15232E-03  732085.0 4056040.6    63.2     3.40     4.00
3.16     NO                    NO
 L0004604         0   0.15232E-03  732085.3 4056032.0    63.2     3.40     4.00
3.16     NO                    NO
 L0004605         0   0.15232E-03  732085.5 4056023.4    63.2     3.40     4.00
3.16     NO                    NO
 L0004606         0   0.15232E-03  732085.7 4056014.8    63.2     3.40     4.00
3.16     NO                    NO
 L0004607         0   0.15232E-03  732086.0 4056006.2    63.2     3.40     4.00
3.16     NO                    NO
 L0004608         0   0.15232E-03  732086.2 4055997.6    63.2     3.40     4.00
3.16     NO                    NO
 L0004609         0   0.15232E-03  732086.4 4055989.0    63.2     3.40     4.00
3.16     NO                    NO
 L0004610         0   0.15232E-03  732086.6 4055980.4    63.2     3.40     4.00
3.16     NO                    NO
 L0004611         0   0.15232E-03  732086.9 4055971.8    63.2     3.40     4.00
3.16     NO                    NO
 L0004612         0   0.15232E-03  732087.1 4055963.2    63.2     3.40     4.00
3.16     NO                    NO
 L0004613         0   0.15232E-03  732087.3 4055954.6    63.2     3.40     4.00
3.16     NO                    NO
 L0004614         0   0.15232E-03  732087.6 4055946.0    63.1     3.40     4.00
3.16     NO                    NO
 L0004615         0   0.15232E-03  732087.8 4055937.4    63.1     3.40     4.00
3.16     NO                    NO
 L0004616         0   0.15232E-03  732088.0 4055928.8    63.1     3.40     4.00
3.16     NO                    NO
 L0004617         0   0.15232E-03  732088.2 4055920.2    63.1     3.40     4.00
3.16     NO                    NO
 L0004618         0   0.15232E-03  732088.5 4055911.6    63.1     3.40     4.00
3.16     NO                    NO
 L0004619         0   0.15232E-03  732088.7 4055903.0    63.1     3.40     4.00
3.16     NO                    NO
 L0004620         0   0.15232E-03  732088.9 4055894.4    63.1     3.40     4.00
3.16     NO                    NO
 L0004621         0   0.15232E-03  732089.1 4055885.8    63.1     3.40     4.00
3.16     NO                    NO
 L0004622         0   0.15232E-03  732089.4 4055877.2    63.1     3.40     4.00
3.16     NO                    NO
 L0004623         0   0.15232E-03  732089.6 4055868.6    63.1     3.40     4.00
3.16     NO                    NO
 L0004624         0   0.15232E-03  732089.8 4055860.0    63.1     3.40     4.00
3.16     NO                    NO
 L0004625         0   0.15232E-03  732090.1 4055851.4    63.1     3.40     4.00
3.16     NO                    NO
 L0004626         0   0.15232E-03  732090.3 4055842.8    63.1     3.40     4.00
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3.16   NO   NO
 L0004627   0   0.15232E-03 732090.5 4055834.2   63.1   3.40   4.00
3.16   NO   NO
 L0004628   0   0.15232E-03 732090.7 4055825.6   63.1   3.40   4.00
3.16   NO   NO
 L0004629   0   0.15232E-03 732091.0 4055817.0   63.0   3.40   4.00
3.16   NO   NO
 L0004630   0   0.15232E-03 732091.2 4055808.4   63.0   3.40   4.00
3.16   NO   NO
 L0004631   0   0.15232E-03 732091.4 4055799.8   63.0   3.40   4.00
3.16   NO   NO
 L0004632   0   0.15232E-03 732091.7 4055791.2   63.0   3.40   4.00
3.16   NO   NO
 L0004633   0   0.15232E-03 732091.9 4055782.6   63.0   3.40   4.00
3.16   NO   NO
 L0004634   0   0.15232E-03 732092.1 4055774.0   63.0   3.40   4.00
3.16   NO   NO
 L0004635   0   0.15232E-03 732092.3 4055765.4   63.0   3.40   4.00
3.16   NO   NO
 L0004636   0   0.15232E-03 732092.6 4055756.9   63.0   3.40   4.00
3.16   NO   NO
 L0004637   0   0.15232E-03 732092.8 4055748.3   63.0   3.40   4.00
3.16   NO   NO
 L0004638   0   0.15232E-03 732093.0 4055739.7   63.0   3.40   4.00
3.16   NO   NO
 L0004639   0   0.15232E-03 732093.3 4055731.1   63.0   3.40   4.00
3.16   NO   NO
 L0004640   0   0.15232E-03 732093.5 4055722.5   62.9   3.40   4.00
3.16   NO   NO

                                                    *** VOLUME SOURCE DATA ***

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

 L0004641   0   0.15232E-03 732093.7 4055713.9   62.9   3.40   4.00

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3.16     NO                    NO
 L0004642         0   0.15232E-03  732093.9 4055705.3    62.9     3.40     4.00
3.16     NO                    NO
 L0004643         0   0.15232E-03  732094.2 4055696.7    62.9     3.40     4.00
3.16     NO                    NO
 L0004644         0   0.15232E-03  732094.4 4055688.1    62.9     3.40     4.00
3.16     NO                    NO
 L0004645         0   0.15232E-03  732094.6 4055679.5    62.9     3.40     4.00
3.16     NO                    NO
 L0004646         0   0.15232E-03  732094.9 4055670.9    62.9     3.40     4.00
3.16     NO                    NO
 L0004647         0   0.15232E-03  732095.1 4055662.3    62.9     3.40     4.00
3.16     NO                    NO
 L0004648         0   0.15232E-03  732095.3 4055653.7    62.9     3.40     4.00
3.16     NO                    NO
 L0004649         0   0.15232E-03  732095.5 4055645.1    62.9     3.40     4.00
3.16     NO                    NO
 L0004650         0   0.15232E-03  732095.8 4055636.5    62.9     3.40     4.00
3.16     NO                    NO
 L0004651         0   0.15232E-03  732096.0 4055627.9    62.9     3.40     4.00
3.16     NO                    NO
 L0004652         0   0.15232E-03  732096.2 4055619.3    62.9     3.40     4.00
3.16     NO                    NO
 L0004653         0   0.15232E-03  732096.5 4055610.7    62.9     3.40     4.00
3.16     NO                    NO
 L0004654         0   0.15232E-03  732096.7 4055602.1    62.9     3.40     4.00
3.16     NO                    NO
 L0004655         0   0.15232E-03  732096.9 4055593.5    62.9     3.40     4.00
3.16     NO                    NO
 L0004656         0   0.15232E-03  732097.1 4055584.9    62.9     3.40     4.00
3.16     NO                    NO
 L0004657         0   0.15232E-03  732097.4 4055576.3    62.8     3.40     4.00
3.16     NO                    NO
 L0004658         0   0.15232E-03  732097.6 4055567.7    62.8     3.40     4.00
3.16     NO                    NO
 L0004659         0   0.15232E-03  732097.8 4055559.1    62.8     3.40     4.00
3.16     NO                    NO
 L0004660         0   0.15232E-03  732098.1 4055550.5    62.8     3.40     4.00
3.16     NO                    NO
 L0004661         0   0.15232E-03  732098.3 4055541.9    62.8     3.40     4.00
3.16     NO                    NO
 L0004662         0   0.15232E-03  732098.5 4055533.3    62.8     3.40     4.00
3.16     NO                    NO
 L0004663         0   0.15232E-03  732098.7 4055524.7    62.8     3.40     4.00
3.16     NO                    NO
 L0004664         0   0.15232E-03  732099.0 4055516.1    62.8     3.40     4.00
3.16     NO                    NO
 L0004665         0   0.15232E-03  732099.2 4055507.5    62.8     3.40     4.00
3.16     NO                    NO
 L0004666         0   0.15232E-03  732099.4 4055498.9    62.8     3.40     4.00
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3.16 NO NO
L0004667 0 0.15232E-03 732099.6 4055490.3 62.8 3.40 4.00
3.16 NO NO
L0004668 0 0.15232E-03 732099.9 4055481.7 62.8 3.40 4.00
3.16 NO NO
L0004669 0 0.15232E-03 732100.1 4055473.2 62.8 3.40 4.00
3.16 NO NO
L0004670 0 0.15232E-03 732100.3 4055464.6 62.8 3.40 4.00
3.16 NO NO
L0004671 0 0.15232E-03 732100.6 4055456.0 62.8 3.40 4.00
3.16 NO NO
L0004672 0 0.15232E-03 732100.8 4055447.4 62.8 3.40 4.00
3.16 NO NO
L0004673 0 0.15232E-03 732101.0 4055438.8 62.8 3.40 4.00
3.16 NO NO
L0004674 0 0.15232E-03 732101.2 4055430.2 62.8 3.40 4.00
3.16 NO NO
L0004675 0 0.15232E-03 732101.5 4055421.6 62.7 3.40 4.00
3.16 NO NO
L0004676 0 0.15232E-03 732101.7 4055413.0 62.7 3.40 4.00
3.16 NO NO
L0004677 0 0.15232E-03 732101.9 4055404.4 62.7 3.40 4.00
3.16 NO NO
L0004678 0 0.15232E-03 732102.2 4055395.8 62.7 3.40 4.00
3.16 NO NO
L0004679 0 0.15232E-03 732102.4 4055387.2 62.7 3.40 4.00
3.16 NO NO
L0004680 0 0.15232E-03 732102.6 4055378.6 62.7 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT EMISSION RATE SCALAR VARY
L0004681	0	0.15232E-03	732102.8	4055370.0	62.7	3.40	4.00			

```
3.16     NO                    NO
 L0004682         0   0.15232E-03  732103.1 4055361.4    62.7     3.40     4.00
3.16     NO                    NO
 L0004683         0   0.15232E-03  732103.3 4055352.8    62.7     3.40     4.00
3.16     NO                    NO
 L0004684         0   0.15232E-03  732103.5 4055344.2    62.7     3.40     4.00
3.16     NO                    NO
 L0004685         0   0.15232E-03  732103.8 4055335.6    62.7     3.40     4.00
3.16     NO                    NO
 L0004686         0   0.15232E-03  732104.0 4055327.0    62.7     3.40     4.00
3.16     NO                    NO
 L0004687         0   0.15232E-03  732104.2 4055318.4    62.7     3.40     4.00
3.16     NO                    NO
 L0004688         0   0.15232E-03  732104.4 4055309.8    62.7     3.40     4.00
3.16     NO                    NO
 L0004689         0   0.15232E-03  732104.7 4055301.2    62.7     3.40     4.00
3.16     NO                    NO
 L0004690         0   0.15232E-03  732104.9 4055292.6    62.7     3.40     4.00
3.16     NO                    NO
 L0004691         0   0.15232E-03  732108.3 4055287.3    62.7     3.40     4.00
3.16     NO                    NO
 L0004692         0   0.15232E-03  732116.9 4055287.5    62.6     3.40     4.00
3.16     NO                    NO
 L0004693         0   0.15232E-03  732125.5 4055287.7    62.6     3.40     4.00
3.16     NO                    NO
 L0004694         0   0.15232E-03  732134.1 4055287.8    62.6     3.40     4.00
3.16     NO                    NO
 L0004695         0   0.15232E-03  732142.7 4055288.0    62.6     3.40     4.00
3.16     NO                    NO
 L0004696         0   0.15232E-03  732151.3 4055288.2    62.6     3.40     4.00
3.16     NO                    NO
 L0004697         0   0.15232E-03  732159.9 4055288.3    62.6     3.40     4.00
3.16     NO                    NO
 L0004698         0   0.15232E-03  732168.5 4055288.5    62.6     3.40     4.00
3.16     NO                    NO
 L0004699         0   0.15232E-03  732177.1 4055288.7    62.5     3.40     4.00
3.16     NO                    NO
 L0004700         0   0.15232E-03  732185.7 4055288.8    62.5     3.40     4.00
3.16     NO                    NO
 L0004701         0   0.15232E-03  732194.3 4055289.0    62.5     3.40     4.00
3.16     NO                    NO
 L0004702         0   0.15232E-03  732202.9 4055289.2    62.5     3.40     4.00
3.16     NO                    NO
 L0004703         0   0.15232E-03  732211.5 4055289.4    62.5     3.40     4.00
3.16     NO                    NO
 L0004704         0   0.15232E-03  732220.1 4055289.5    62.5     3.40     4.00
3.16     NO                    NO
 L0004705         0   0.15232E-03  732228.7 4055289.7    62.4     3.40     4.00
3.16     NO                    NO
 L0004706         0   0.15232E-03  732237.3 4055289.9    62.4     3.40     4.00
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3.16   NO   NO
 L0004707   0   0.15232E-03 732245.9 4055290.0   62.4   3.40   4.00
3.16   NO   NO
 L0004708   0   0.15232E-03 732254.5 4055290.2   62.4   3.40   4.00
3.16   NO   NO
 L0004709   0   0.15232E-03 732263.1 4055290.4   62.4   3.40   4.00
3.16   NO   NO
 L0004710   0   0.15232E-03 732271.7 4055290.5   62.4   3.40   4.00
3.16   NO   NO
 L0004711   0   0.15232E-03 732280.3 4055290.7   62.3   3.40   4.00
3.16   NO   NO
 L0004712   0   0.15232E-03 732288.9 4055290.9   62.3   3.40   4.00
3.16   NO   NO
 L0004713   0   0.15232E-03 732297.5 4055291.0   62.3   3.40   4.00
3.16   NO   NO
 L0004714   0   0.15232E-03 732306.1 4055291.2   62.3   3.40   4.00
3.16   NO   NO
 L0004715   0   0.15232E-03 732314.7 4055291.4   62.3   3.40   4.00
3.16   NO   NO
 L0004716   0   0.15232E-03 732323.3 4055291.5   62.3   3.40   4.00
3.16   NO   NO
 L0004717   0   0.15232E-03 732331.9 4055291.7   62.3   3.40   4.00
3.16   NO   NO
 L0004718   0   0.15232E-03 732340.5 4055291.9   62.2   3.40   4.00
3.16   NO   NO
 L0004719   0   0.15232E-03 732349.1 4055292.0   62.2   3.40   4.00
3.16   NO   NO
 L0004720   0   0.15232E-03 732357.7 4055292.2   62.2   3.40   4.00
3.16   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

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

 L0004721   0   0.15232E-03 732366.2 4055292.4   62.2   3.40   4.00

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3.16     NO                    NO
 L0004722         0   0.15232E-03  732374.8 4055292.5    62.2     3.40     4.00
3.16     NO                    NO
 L0004723         0   0.15232E-03  732383.4 4055292.7    62.1     3.40     4.00
3.16     NO                    NO
 L0004724         0   0.15232E-03  732392.0 4055292.9    62.1     3.40     4.00
3.16     NO                    NO
 L0004725         0   0.15232E-03  732400.6 4055293.0    62.1     3.40     4.00
3.16     NO                    NO
 L0004726         0   0.15232E-03  732409.2 4055293.2    62.1     3.40     4.00
3.16     NO                    NO
 L0004727         0   0.15232E-03  732417.8 4055293.4    62.1     3.40     4.00
3.16     NO                    NO
 L0004728         0   0.15232E-03  732426.4 4055293.5    62.1     3.40     4.00
3.16     NO                    NO
 L0004729         0   0.15232E-03  732435.0 4055293.7    62.0     3.40     4.00
3.16     NO                    NO
 L0004730         0   0.15232E-03  732443.6 4055293.9    62.0     3.40     4.00
3.16     NO                    NO
 L0004731         0   0.15232E-03  732452.2 4055294.0    62.0     3.40     4.00
3.16     NO                    NO
 L0004732         0   0.15232E-03  732460.8 4055294.2    62.0     3.40     4.00
3.16     NO                    NO
 L0004733         0   0.15232E-03  732469.4 4055294.4    62.0     3.40     4.00
3.16     NO                    NO
 L0004734         0   0.15232E-03  732478.0 4055294.5    62.0     3.40     4.00
3.16     NO                    NO
 L0004735         0   0.15232E-03  732486.6 4055294.7    61.9     3.40     4.00
3.16     NO                    NO
 L0004736         0   0.15232E-03  732495.2 4055294.9    61.9     3.40     4.00
3.16     NO                    NO
 L0004737         0   0.15232E-03  732503.8 4055295.0    61.9     3.40     4.00
3.16     NO                    NO
 L0004738         0   0.15232E-03  732512.4 4055295.2    61.9     3.40     4.00
3.16     NO                    NO
 L0004739         0   0.15232E-03  732521.0 4055295.4    61.9     3.40     4.00
3.16     NO                    NO
 L0004740         0   0.15232E-03  732529.6 4055295.5    61.9     3.40     4.00
3.16     NO                    NO
 L0004741         0   0.15232E-03  732538.2 4055295.7    61.8     3.40     4.00
3.16     NO                    NO
 L0004742         0   0.15232E-03  732546.8 4055295.9    61.8     3.40     4.00
3.16     NO                    NO
 L0004743         0   0.15232E-03  732555.4 4055296.1    61.8     3.40     4.00
3.16     NO                    NO
 L0004744         0   0.15232E-03  732564.0 4055296.2    61.8     3.40     4.00
3.16     NO                    NO
 L0004745         0   0.15232E-03  732572.6 4055296.4    61.8     3.40     4.00
3.16     NO                    NO
 L0004746         0   0.15232E-03  732581.2 4055296.6    61.8     3.40     4.00
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3.16   NO   NO
 L0004747   0   0.15232E-03 732589.8 4055296.7   61.7   3.40   4.00
3.16   NO   NO
 L0004748   0   0.15232E-03 732598.4 4055296.9   61.7   3.40   4.00
3.16   NO   NO
 L0004749   0   0.15232E-03 732607.0 4055297.1   61.7   3.40   4.00
3.16   NO   NO
 L0004750   0   0.15232E-03 732615.6 4055297.2   61.7   3.40   4.00
3.16   NO   NO
 L0004751   0   0.15232E-03 732624.2 4055297.4   61.7   3.40   4.00
3.16   NO   NO
 L0004752   0   0.15232E-03 732632.8 4055297.6   61.7   3.40   4.00
3.16   NO   NO
 L0004753   0   0.15232E-03 732641.4 4055297.7   61.7   3.40   4.00
3.16   NO   NO
 L0004754   0   0.15232E-03 732650.0 4055297.9   61.7   3.40   4.00
3.16   NO   NO
 L0004755   0   0.15232E-03 732658.6 4055298.1   61.6   3.40   4.00
3.16   NO   NO
 L0004756   0   0.15232E-03 732667.2 4055298.2   61.6   3.40   4.00
3.16   NO   NO
 L0004757   0   0.15232E-03 732675.8 4055298.4   61.6   3.40   4.00
3.16   NO   NO
 L0004758   0   0.15232E-03 732684.4 4055298.6   61.6   3.40   4.00
3.16   NO   NO
 L0004759   0   0.15232E-03 732693.0 4055298.7   61.6   3.40   4.00
3.16   NO   NO
 L0004760   0   0.15232E-03 732701.6 4055298.9   61.6   3.40   4.00
3.16   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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 L0004761   0   0.15232E-03 732710.2 4055299.1   61.6   3.40   4.00

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3.16     NO                    NO
 L0004762         0   0.15232E-03  732718.8 4055299.2    61.6     3.40     4.00
3.16     NO                    NO
 L0004763         0   0.15232E-03  732727.4 4055299.4    61.6     3.40     4.00
3.16     NO                    NO
 L0004764         0   0.15232E-03  732736.0 4055299.6    61.5     3.40     4.00
3.16     NO                    NO
 L0004765         0   0.15232E-03  732744.6 4055299.7    61.5     3.40     4.00
3.16     NO                    NO
 L0004766         0   0.15232E-03  732753.2 4055299.9    61.5     3.40     4.00
3.16     NO                    NO
 L0004767         0   0.15232E-03  732761.8 4055300.1    61.5     3.40     4.00
3.16     NO                    NO
 L0004768         0   0.15232E-03  732770.4 4055300.2    61.5     3.40     4.00
3.16     NO                    NO
 L0004769         0   0.15232E-03  732779.0 4055300.4    61.5     3.40     4.00
3.16     NO                    NO
 L0004770         0   0.15232E-03  732787.6 4055300.6    61.5     3.40     4.00
3.16     NO                    NO
 L0004771         0   0.15232E-03  732796.2 4055300.7    61.5     3.40     4.00
3.16     NO                    NO
 L0004772         0   0.15232E-03  732804.8 4055300.9    61.5     3.40     4.00
3.16     NO                    NO
 L0004773         0   0.15232E-03  732813.4 4055301.1    61.4     3.40     4.00
3.16     NO                    NO
 L0004774         0   0.15232E-03  732822.0 4055301.2    61.4     3.40     4.00
3.16     NO                    NO
 L0004775         0   0.15232E-03  732830.6 4055301.4    61.4     3.40     4.00
3.16     NO                    NO
 L0004776         0   0.15232E-03  732839.2 4055301.6    61.4     3.40     4.00
3.16     NO                    NO
 L0004777         0   0.15232E-03  732847.8 4055301.7    61.4     3.40     4.00
3.16     NO                    NO
 L0004778         0   0.15232E-03  732856.4 4055301.9    61.4     3.40     4.00
3.16     NO                    NO
 L0004779         0   0.15232E-03  732865.0 4055302.1    61.4     3.40     4.00
3.16     NO                    NO
 L0004780         0   0.15232E-03  732873.6 4055302.2    61.4     3.40     4.00
3.16     NO                    NO
 L0004781         0   0.15232E-03  732882.2 4055302.4    61.3     3.40     4.00
3.16     NO                    NO
 L0004782         0   0.15232E-03  732890.8 4055302.6    61.3     3.40     4.00
3.16     NO                    NO
 L0004783         0   0.15232E-03  732899.3 4055302.8    61.3     3.40     4.00
3.16     NO                    NO
 L0004784         0   0.15232E-03  732907.9 4055302.9    61.3     3.40     4.00
3.16     NO                    NO
 L0004785         0   0.15232E-03  732916.5 4055303.1    61.3     3.40     4.00
3.16     NO                    NO
 L0004786         0   0.15232E-03  732925.1 4055303.3    61.3     3.40     4.00
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3.16     NO                     NO
 L0004787         0   0.15232E-03  732933.7 4055303.4    61.3     3.40     4.00
3.16     NO                     NO
 L0004788         0   0.15232E-03  732942.3 4055303.6    61.3     3.40     4.00
3.16     NO                     NO
 L0004789         0   0.15232E-03  732950.9 4055303.8    61.2     3.40     4.00
3.16     NO                     NO
 L0004790         0   0.15232E-03  732959.5 4055303.9    61.2     3.40     4.00
3.16     NO                     NO
 L0004791         0   0.15232E-03  732968.1 4055304.1    61.2     3.40     4.00
3.16     NO                     NO
 L0004792         0   0.15232E-03  732976.7 4055304.3    61.2     3.40     4.00
3.16     NO                     NO
 L0004793         0   0.15232E-03  732985.3 4055304.4    61.2     3.40     4.00
3.16     NO                     NO
 L0004794         0   0.15232E-03  732993.9 4055304.6    61.2     3.40     4.00
3.16     NO                     NO
 L0004795         0   0.15232E-03  733002.5 4055304.8    61.2     3.40     4.00
3.16     NO                     NO
 L0004796         0   0.15232E-03  733011.1 4055304.9    61.1     3.40     4.00
3.16     NO                     NO
 L0004797         0   0.15232E-03  733019.7 4055305.1    61.1     3.40     4.00
3.16     NO                     NO
 L0004798         0   0.15232E-03  733028.3 4055305.3    61.1     3.40     4.00
3.16     NO                     NO
 L0004799         0   0.15232E-03  733036.9 4055305.4    61.1     3.40     4.00
3.16     NO                     NO
 L0004800         0   0.15232E-03  733045.5 4055305.6    61.1     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE 122
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0004801         0   0.15232E-03  733054.1 4055305.8    61.1     3.40     4.00
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3.16     NO                    NO
 L0004802         0   0.15232E-03  733062.7 4055305.9    61.1     3.40     4.00
3.16     NO                    NO
 L0004803         0   0.15232E-03  733071.3 4055306.1    61.1     3.40     4.00
3.16     NO                    NO
 L0004804         0   0.15232E-03  733079.9 4055306.3    61.0     3.40     4.00
3.16     NO                    NO
 L0004805         0   0.15232E-03  733088.5 4055306.4    61.0     3.40     4.00
3.16     NO                    NO
 L0004806         0   0.15232E-03  733097.1 4055306.6    61.0     3.40     4.00
3.16     NO                    NO
 L0004807         0   0.15232E-03  733105.7 4055306.8    61.0     3.40     4.00
3.16     NO                    NO
 L0004808         0   0.15232E-03  733114.3 4055306.9    61.0     3.40     4.00
3.16     NO                    NO
 L0004809         0   0.15232E-03  733122.9 4055307.1    61.0     3.40     4.00
3.16     NO                    NO
 L0004810         0   0.15232E-03  733131.5 4055307.3    60.9     3.40     4.00
3.16     NO                    NO
 L0004811         0   0.15232E-03  733140.1 4055307.4    60.9     3.40     4.00
3.16     NO                    NO
 L0004812         0   0.15232E-03  733148.7 4055307.6    60.9     3.40     4.00
3.16     NO                    NO
 L0004813         0   0.15232E-03  733157.3 4055307.8    60.9     3.40     4.00
3.16     NO                    NO
 L0004814         0   0.15232E-03  733165.9 4055307.9    60.9     3.40     4.00
3.16     NO                    NO
 L0004815         0   0.15232E-03  733174.5 4055308.1    60.9     3.40     4.00
3.16     NO                    NO
 L0004816         0   0.15232E-03  733183.1 4055308.3    60.8     3.40     4.00
3.16     NO                    NO
 L0004817         0   0.15232E-03  733191.7 4055308.4    60.8     3.40     4.00
3.16     NO                    NO
 L0004818         0   0.15232E-03  733200.3 4055308.6    60.8     3.40     4.00
3.16     NO                    NO
 L0004819         0   0.15232E-03  733208.9 4055308.8    60.8     3.40     4.00
3.16     NO                    NO
 L0004820         0   0.15232E-03  733217.5 4055308.9    60.8     3.40     4.00
3.16     NO                    NO
 L0004821         0   0.15232E-03  733226.1 4055309.1    60.8     3.40     4.00
3.16     NO                    NO
 L0004822         0   0.15232E-03  733234.7 4055309.3    60.8     3.40     4.00
3.16     NO                    NO
 L0004823         0   0.15232E-03  733243.3 4055309.5    60.8     3.40     4.00
3.16     NO                    NO
 L0004824         0   0.15232E-03  733251.9 4055309.6    60.8     3.40     4.00
3.16     NO                    NO
 L0004825         0   0.15232E-03  733260.5 4055309.8    60.7     3.40     4.00
3.16     NO                    NO
 L0004826         0   0.15232E-03  733269.1 4055310.0    60.7     3.40     4.00
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3.16   NO   NO
 L0004827   0   0.15232E-03 733277.7 4055310.1   60.7   3.40   4.00
3.16   NO   NO
 L0004828   0   0.15232E-03 733286.3 4055310.3   60.7   3.40   4.00
3.16   NO   NO
 L0004829   0   0.15232E-03 733294.9 4055310.5   60.7   3.40   4.00
3.16   NO   NO
 L0004830   0   0.15232E-03 733303.5 4055310.6   60.6   3.40   4.00
3.16   NO   NO
 L0004831   0   0.15232E-03 733312.1 4055310.8   60.6   3.40   4.00
3.16   NO   NO
 L0004832   0   0.15232E-03 733320.7 4055311.0   60.6   3.40   4.00
3.16   NO   NO
 L0004833   0   0.15232E-03 733329.3 4055311.1   60.6   3.40   4.00
3.16   NO   NO
 L0004834   0   0.15232E-03 733337.9 4055311.3   60.6   3.40   4.00
3.16   NO   NO
 L0004835   0   0.15232E-03 733346.5 4055311.5   60.6   3.40   4.00
3.16   NO   NO
 L0004836   0   0.15232E-03 733355.1 4055311.6   60.5   3.40   4.00
3.16   NO   NO
 L0004837   0   0.15232E-03 733363.7 4055311.8   60.5   3.40   4.00
3.16   NO   NO
 L0004838   0   0.15232E-03 733372.3 4055312.0   60.5   3.40   4.00
3.16   NO   NO
 L0004839   0   0.15232E-03 733380.9 4055312.1   60.5   3.40   4.00
3.16   NO   NO
 L0004840   0   0.15232E-03 733389.5 4055312.3   60.5   3.40   4.00
3.16   NO   NO

                                                    *** VOLUME SOURCE DATA ***

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

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3.16     NO                    NO
 L0004842         0   0.15232E-03  733406.7 4055312.6    60.4     3.40     4.00
3.16     NO                    NO
 L0004843         0   0.15232E-03  733415.3 4055312.8    60.4     3.40     4.00
3.16     NO                    NO
 L0004844         0   0.15232E-03  733423.8 4055313.0    60.4     3.40     4.00
3.16     NO                    NO
 L0004845         0   0.15232E-03  733432.4 4055313.1    60.4     3.40     4.00
3.16     NO                    NO
 L0004846         0   0.15232E-03  733439.4 4055314.9    60.4     3.40     4.00
3.16     NO                    NO
 L0004847         0   0.15232E-03  733439.1 4055323.4    60.4     3.40     4.00
3.16     NO                    NO
 L0004848         0   0.15232E-03  733438.8 4055332.0    60.4     3.40     4.00
3.16     NO                    NO
 L0004849         0   0.15232E-03  733438.5 4055340.6    60.4     3.40     4.00
3.16     NO                    NO
 L0004850         0   0.15232E-03  733438.1 4055349.2    60.4     3.40     4.00
3.16     NO                    NO
 L0004851         0   0.15232E-03  733437.8 4055357.8    60.4     3.40     4.00
3.16     NO                    NO
 L0004852         0   0.15232E-03  733437.5 4055366.4    60.4     3.40     4.00
3.16     NO                    NO
 L0004853         0   0.15232E-03  733437.2 4055375.0    60.4     3.40     4.00
3.16     NO                    NO
 L0004854         0   0.15232E-03  733436.9 4055383.6    60.4     3.40     4.00
3.16     NO                    NO
 L0004855         0   0.15232E-03  733436.6 4055392.2    60.4     3.40     4.00
3.16     NO                    NO
 L0004856         0   0.15232E-03  733436.2 4055400.8    60.4     3.40     4.00
3.16     NO                    NO
 L0004857         0   0.15232E-03  733435.9 4055409.4    60.4     3.40     4.00
3.16     NO                    NO
 L0004858         0   0.15232E-03  733435.6 4055418.0    60.4     3.40     4.00
3.16     NO                    NO
 L0004859         0   0.15232E-03  733435.3 4055426.6    60.4     3.40     4.00
3.16     NO                    NO
 L0004860         0   0.15232E-03  733435.0 4055435.2    60.4     3.40     4.00
3.16     NO                    NO
 L0004861         0   0.15232E-03  733434.7 4055443.8    60.4     3.40     4.00
3.16     NO                    NO
 L0004862         0   0.15232E-03  733434.3 4055452.4    60.4     3.40     4.00
3.16     NO                    NO
 L0004863         0   0.15232E-03  733434.0 4055461.0    60.4     3.40     4.00
3.16     NO                    NO
 L0004864         0   0.15232E-03  733433.7 4055469.5    60.4     3.40     4.00
3.16     NO                    NO
 L0004865         0   0.15232E-03  733433.4 4055478.1    60.4     3.40     4.00
3.16     NO                    NO
 L0004866         0   0.15232E-03  733433.1 4055486.7    60.4     3.40     4.00
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3.16 NO NO
L0004867 0 0.15232E-03 733432.8 4055495.3 60.4 3.40 4.00
3.16 NO NO
L0004868 0 0.15232E-03 733432.4 4055503.9 60.4 3.40 4.00
3.16 NO NO
L0004869 0 0.15232E-03 733432.1 4055512.5 60.4 3.40 4.00
3.16 NO NO
L0004870 0 0.15232E-03 733431.8 4055521.1 60.4 3.40 4.00
3.16 NO NO
L0004871 0 0.15232E-03 733431.5 4055529.7 60.4 3.40 4.00
3.16 NO NO
L0004872 0 0.15232E-03 733431.2 4055538.3 60.4 3.40 4.00
3.16 NO NO
L0004873 0 0.15232E-03 733430.9 4055546.9 60.4 3.40 4.00
3.16 NO NO
L0004874 0 0.15232E-03 733430.5 4055555.5 60.4 3.40 4.00
3.16 NO NO
L0004875 0 0.15232E-03 733430.2 4055564.1 60.5 3.40 4.00
3.16 NO NO
L0004876 0 0.15232E-03 733429.9 4055572.7 60.5 3.40 4.00
3.16 NO NO
L0004877 0 0.15232E-03 733429.6 4055581.3 60.5 3.40 4.00
3.16 NO NO
L0004878 0 0.15232E-03 733429.3 4055589.9 60.5 3.40 4.00
3.16 NO NO
L0004879 0 0.15232E-03 733429.0 4055598.5 60.5 3.40 4.00
3.16 NO NO
L0004880 0 0.15232E-03 733428.7 4055607.1 60.5 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT SCALAR VARY BY
L0004881	0	0.15232E-03	733428.3	4055615.6	60.5	3.40	4.00			

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3.16     NO                    NO
 L0004882         0   0.15232E-03  733428.0 4055624.2    60.5     3.40     4.00
3.16     NO                    NO
 L0004883         0   0.15232E-03  733427.7 4055632.8    60.5     3.40     4.00
3.16     NO                    NO
 L0004884         0   0.15232E-03  733427.4 4055641.4    60.5     3.40     4.00
3.16     NO                    NO
 L0004885         0   0.15232E-03  733427.1 4055650.0    60.5     3.40     4.00
3.16     NO                    NO
 L0004886         0   0.15232E-03  733426.8 4055658.6    60.5     3.40     4.00
3.16     NO                    NO
 L0004887         0   0.15232E-03  733426.4 4055667.2    60.5     3.40     4.00
3.16     NO                    NO
 L0004888         0   0.15232E-03  733426.1 4055675.8    60.5     3.40     4.00
3.16     NO                    NO
 L0004889         0   0.15232E-03  733425.8 4055684.4    60.4     3.40     4.00
3.16     NO                    NO
 L0004890         0   0.15232E-03  733425.5 4055693.0    60.4     3.40     4.00
3.16     NO                    NO
 L0004891         0   0.15232E-03  733425.2 4055701.6    60.4     3.40     4.00
3.16     NO                    NO
 L0004892         0   0.15232E-03  733424.9 4055710.2    60.4     3.40     4.00
3.16     NO                    NO
 L0004893         0   0.15232E-03  733424.5 4055718.8    60.4     3.40     4.00
3.16     NO                    NO
 L0004894         0   0.15232E-03  733424.2 4055727.4    60.4     3.40     4.00
3.16     NO                    NO
 L0004895         0   0.15232E-03  733423.9 4055736.0    60.4     3.40     4.00
3.16     NO                    NO
 L0004896         0   0.15232E-03  733423.6 4055744.6    60.4     3.40     4.00
3.16     NO                    NO
 L0004897         0   0.15232E-03  733423.3 4055753.2    60.4     3.40     4.00
3.16     NO                    NO
 L0004898         0   0.15232E-03  733423.0 4055761.8    60.4     3.40     4.00
3.16     NO                    NO
 L0004899         0   0.15232E-03  733422.6 4055770.3    60.4     3.40     4.00
3.16     NO                    NO
 L0004900         0   0.15232E-03  733422.3 4055778.9    60.4     3.40     4.00
3.16     NO                    NO
 L0004901         0   0.15232E-03  733422.0 4055787.5    60.4     3.40     4.00
3.16     NO                    NO
 L0004902         0   0.15232E-03  733421.7 4055796.1    60.4     3.40     4.00
3.16     NO                    NO
 L0004903         0   0.15232E-03  733421.4 4055804.7    60.4     3.40     4.00
3.16     NO                    NO
 L0004904         0   0.15232E-03  733421.1 4055813.3    60.4     3.40     4.00
3.16     NO                    NO
 L0004905         0   0.15232E-03  733420.7 4055821.9    60.4     3.40     4.00
3.16     NO                    NO
 L0004906         0   0.15232E-03  733420.4 4055830.5    60.4     3.40     4.00
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3.16 NO NO
L0004907 0 0.15232E-03 733420.1 4055839.1 60.4 3.40 4.00
3.16 NO NO
L0004908 0 0.15232E-03 733419.8 4055847.7 60.4 3.40 4.00
3.16 NO NO
L0004909 0 0.15232E-03 733419.5 4055856.3 60.4 3.40 4.00
3.16 NO NO
L0004910 0 0.15232E-03 733419.2 4055864.9 60.4 3.40 4.00
3.16 NO NO
L0004911 0 0.15232E-03 733418.8 4055873.5 60.4 3.40 4.00
3.16 NO NO
L0004912 0 0.15232E-03 733418.5 4055882.1 60.4 3.40 4.00
3.16 NO NO
L0004913 0 0.15232E-03 733418.2 4055890.7 60.4 3.40 4.00
3.16 NO NO
L0004914 0 0.15232E-03 733417.9 4055899.3 60.4 3.40 4.00
3.16 NO NO
L0004915 0 0.15232E-03 733417.6 4055907.9 60.4 3.40 4.00
3.16 NO NO
L0004916 0 0.15232E-03 733417.3 4055916.4 60.4 3.40 4.00
3.16 NO NO
L0004917 0 0.15232E-03 733416.9 4055925.0 60.4 3.40 4.00
3.16 NO NO
L0004918 0 0.15232E-03 733416.6 4055933.6 60.4 3.40 4.00
3.16 NO NO
L0004919 0 0.15232E-03 733416.3 4055942.2 60.4 3.40 4.00
3.16 NO NO
L0004920 0 0.15232E-03 733416.0 4055950.8 60.4 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT SCALAR VARY BY
L0004921	0	0.15232E-03	733415.7	4055959.4	60.4	3.40	4.00			

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3.16     NO                    NO
 L0004922         0   0.15232E-03  733415.4 4055968.0    60.4     3.40     4.00
3.16     NO                    NO
 L0004923         0   0.15232E-03  733415.0 4055976.6    60.4     3.40     4.00
3.16     NO                    NO
 L0004924         0   0.15232E-03  733414.7 4055985.2    60.4     3.40     4.00
3.16     NO                    NO
 L0004925         0   0.15232E-03  733414.4 4055993.8    60.4     3.40     4.00
3.16     NO                    NO
 L0004926         0   0.15232E-03  733414.1 4056002.4    60.4     3.40     4.00
3.16     NO                    NO
 L0004927         0   0.15232E-03  733413.8 4056011.0    60.4     3.40     4.00
3.16     NO                    NO
 L0004928         0   0.15232E-03  733413.5 4056019.6    60.4     3.40     4.00
3.16     NO                    NO
 L0004929         0   0.15232E-03  733413.2 4056028.2    60.4     3.40     4.00
3.16     NO                    NO
 L0004930         0   0.15232E-03  733412.8 4056036.8    60.4     3.40     4.00
3.16     NO                    NO
 L0004931         0   0.15232E-03  733412.5 4056045.4    60.4     3.40     4.00
3.16     NO                    NO
 L0004932         0   0.15232E-03  733412.2 4056054.0    60.4     3.40     4.00
3.16     NO                    NO
 L0004933         0   0.15232E-03  733411.9 4056062.5    60.4     3.40     4.00
3.16     NO                    NO
 L0004934         0   0.15232E-03  733411.6 4056071.1    60.4     3.40     4.00
3.16     NO                    NO
 L0004935         0   0.15232E-03  733411.3 4056079.7    60.4     3.40     4.00
3.16     NO                    NO
 L0004936         0   0.15232E-03  733410.9 4056088.3    60.4     3.40     4.00
3.16     NO                    NO
 L0004937         0   0.15232E-03  733410.6 4056096.9    60.4     3.40     4.00
3.16     NO                    NO
 L0004938         0   0.15232E-03  733410.3 4056105.5    60.4     3.40     4.00
3.16     NO                    NO
 L0004939         0   0.15232E-03  733410.0 4056114.1    60.4     3.40     4.00
3.16     NO                    NO
 L0004940         0   0.15232E-03  733409.7 4056122.7    60.4     3.40     4.00
3.16     NO                    NO
 L0004941         0   0.15232E-03  733409.4 4056131.3    60.4     3.40     4.00
3.16     NO                    NO
 L0004942         0   0.15232E-03  733409.0 4056139.9    60.4     3.40     4.00
3.16     NO                    NO
 L0004943         0   0.15232E-03  733408.7 4056148.5    60.4     3.40     4.00
3.16     NO                    NO
 L0004944         0   0.15232E-03  733408.4 4056157.1    60.4     3.40     4.00
3.16     NO                    NO
 L0004945         0   0.15232E-03  733408.1 4056165.7    60.4     3.40     4.00
3.16     NO                    NO
 L0004946         0   0.15232E-03  733407.8 4056174.3    60.4     3.40     4.00
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3.16 NO NO
L0004947 0 0.15232E-03 733407.5 4056182.9 60.4 3.40 4.00
3.16 NO NO
L0004948 0 0.15232E-03 733407.1 4056191.5 60.4 3.40 4.00
3.16 NO NO
L0004949 0 0.15232E-03 733406.8 4056200.1 60.4 3.40 4.00
3.16 NO NO
L0004950 0 0.15232E-03 733406.5 4056208.6 60.4 3.40 4.00
3.16 NO NO
L0004951 0 0.15232E-03 733406.2 4056217.2 60.4 3.40 4.00
3.16 NO NO
L0004952 0 0.15232E-03 733405.9 4056225.8 60.4 3.40 4.00
3.16 NO NO
L0004953 0 0.15232E-03 733405.6 4056234.4 60.4 3.40 4.00
3.16 NO NO
L0004954 0 0.15232E-03 733405.2 4056243.0 60.4 3.40 4.00
3.16 NO NO
L0004955 0 0.15232E-03 733404.9 4056251.6 60.4 3.40 4.00
3.16 NO NO
L0004956 0 0.15232E-03 733404.6 4056260.2 60.4 3.40 4.00
3.16 NO NO
L0004957 0 0.15232E-03 733404.3 4056268.8 60.4 3.40 4.00
3.16 NO NO
L0004958 0 0.15232E-03 733404.0 4056277.4 60.4 3.40 4.00
3.16 NO NO
L0004959 0 0.15232E-03 733403.7 4056286.0 60.4 3.40 4.00
3.16 NO NO
L0004960 0 0.15232E-03 733403.3 4056294.6 60.4 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY	AIRCRAFT
L0004961	0	0.15232E-03	733403.0	4056303.2	60.4	3.40	4.00				

3.16	NO		NO					
L0004962		0	0.15232E-03	733402.7	4056311.8	60.4	3.40	4.00
3.16	NO		NO					
L0004963		0	0.15232E-03	733402.4	4056320.4	60.4	3.40	4.00
3.16	NO		NO					
L0004964		0	0.15232E-03	733402.1	4056329.0	60.4	3.40	4.00
3.16	NO		NO					
L0004965		0	0.15232E-03	733401.8	4056337.6	60.4	3.40	4.00
3.16	NO		NO					
L0004966		0	0.15232E-03	733401.4	4056346.2	60.4	3.40	4.00
3.16	NO		NO					
L0004967		0	0.15232E-03	733401.1	4056354.7	60.4	3.40	4.00
3.16	NO		NO					
L0004968		0	0.15232E-03	733400.8	4056363.3	60.4	3.40	4.00
3.16	NO		NO					
L0004969		0	0.15232E-03	733400.5	4056371.9	60.4	3.40	4.00
3.16	NO		NO					
L0004970		0	0.15232E-03	733400.2	4056380.5	60.4	3.40	4.00
3.16	NO		NO					
L0004971		0	0.15232E-03	733399.9	4056389.1	60.4	3.40	4.00
3.16	NO		NO					
L0004972		0	0.15232E-03	733399.5	4056397.7	60.4	3.40	4.00
3.16	NO		NO					
L0004973		0	0.15232E-03	733399.2	4056406.3	60.4	3.40	4.00
3.16	NO		NO					
L0004974		0	0.15232E-03	733398.9	4056414.9	60.4	3.40	4.00
3.16	NO		NO					
L0004975		0	0.15232E-03	733398.6	4056423.5	60.4	3.40	4.00
3.16	NO		NO					
L0004976		0	0.15232E-03	733398.3	4056432.1	60.5	3.40	4.00
3.16	NO		NO					
L0004977		0	0.15232E-03	733398.0	4056440.7	60.5	3.40	4.00
3.16	NO		NO					
L0004978		0	0.15232E-03	733397.6	4056449.3	60.5	3.40	4.00
3.16	NO		NO					
L0004979		0	0.15232E-03	733397.3	4056457.9	60.5	3.40	4.00
3.16	NO		NO					
L0004980		0	0.15232E-03	733397.0	4056466.5	60.5	3.40	4.00
3.16	NO		NO					
L0004981		0	0.15232E-03	733396.7	4056475.1	60.5	3.40	4.00
3.16	NO		NO					
L0004982		0	0.15232E-03	733396.4	4056483.7	60.5	3.40	4.00
3.16	NO		NO					
L0004983		0	0.15232E-03	733396.1	4056492.3	60.5	3.40	4.00
3.16	NO		NO					
L0004984		0	0.15232E-03	733395.8	4056500.8	60.5	3.40	4.00
3.16	NO		NO					
L0004985		0	0.15232E-03	733395.4	4056509.4	60.5	3.40	4.00
3.16	NO		NO					
L0004986		0	0.15232E-03	733395.1	4056518.0	60.5	3.40	4.00

3.16   NO   NO
 L0004987   0   0.15232E-03 733394.8 4056526.6   60.5   3.40   4.00
3.16   NO   NO
 L0004988   0   0.15232E-03 733394.5 4056535.2   60.5   3.40   4.00
3.16   NO   NO
 L0004989   0   0.15232E-03 733394.2 4056543.8   60.5   3.40   4.00
3.16   NO   NO
 L0004990   0   0.15232E-03 733393.9 4056552.4   60.5   3.40   4.00
3.16   NO   NO
 L0004991   0   0.15232E-03 733393.5 4056561.0   60.5   3.40   4.00
3.16   NO   NO
 L0004992   0   0.15232E-03 733393.2 4056569.6   60.5   3.40   4.00
3.16   NO   NO
 L0004993   0   0.15232E-03 733392.9 4056578.2   60.5   3.40   4.00
3.16   NO   NO
 L0004994   0   0.15232E-03 733392.6 4056586.8   60.5   3.40   4.00
3.16   NO   NO
 L0004995   0   0.15232E-03 733392.3 4056595.4   60.5   3.40   4.00
3.16   NO   NO
 L0004996   0   0.15232E-03 733392.0 4056604.0   60.5   3.40   4.00
3.16   NO   NO
 L0004997   0   0.15232E-03 733391.6 4056612.6   60.5   3.40   4.00
3.16   NO   NO
 L0004998   0   0.15232E-03 733391.3 4056621.2   60.5   3.40   4.00
3.16   NO   NO
 L0004999   0   0.15232E-03 733391.0 4056629.8   60.5   3.40   4.00
3.16   NO   NO
 L0005000   0   0.15232E-03 733390.7 4056638.4   60.5   3.40   4.00
3.16   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

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

 L0005001   0   0.15232E-03 733390.4 4056647.0   60.5   3.40   4.00

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3.16     NO                    NO
 L0005002         0   0.15232E-03  733390.1 4056655.5    60.5     3.40     4.00
3.16     NO                    NO
 L0005003         0   0.15232E-03  733389.7 4056664.1    60.5     3.40     4.00
3.16     NO                    NO
 L0005004         0   0.15232E-03  733389.4 4056672.7    60.5     3.40     4.00
3.16     NO                    NO
 L0005005         0   0.15232E-03  733389.1 4056681.3    60.5     3.40     4.00
3.16     NO                    NO
 L0005006         0   0.15232E-03  733388.8 4056689.9    60.5     3.40     4.00
3.16     NO                    NO
 L0005007         0   0.15232E-03  733388.5 4056698.5    60.5     3.40     4.00
3.16     NO                    NO
 L0005008         0   0.15232E-03  733388.2 4056707.1    60.5     3.40     4.00
3.16     NO                    NO
 L0005009         0   0.15232E-03  733387.8 4056715.7    60.5     3.40     4.00
3.16     NO                    NO
 L0005010         0   0.15232E-03  733387.5 4056724.3    60.5     3.40     4.00
3.16     NO                    NO
 L0005011         0   0.15232E-03  733380.3 4056725.3    60.5     3.40     4.00
3.16     NO                    NO
 L0005012         0   0.15232E-03  733371.7 4056724.9    60.5     3.40     4.00
3.16     NO                    NO
 L0005013         0   0.15232E-03  733363.1 4056724.6    60.6     3.40     4.00
3.16     NO                    NO
 L0005014         0   0.15232E-03  733354.5 4056724.2    60.6     3.40     4.00
3.16     NO                    NO
 L0005015         0   0.15232E-03  733345.9 4056723.8    60.6     3.40     4.00
3.16     NO                    NO
 L0005016         0   0.15232E-03  733337.3 4056723.4    60.6     3.40     4.00
3.16     NO                    NO
 L0005017         0   0.15232E-03  733328.7 4056723.0    60.6     3.40     4.00
3.16     NO                    NO
 L0005018         0   0.15232E-03  733320.1 4056722.6    60.7     3.40     4.00
3.16     NO                    NO
 L0005019         0   0.15232E-03  733311.5 4056722.2    60.7     3.40     4.00
3.16     NO                    NO
 L0005020         0   0.15232E-03  733303.0 4056721.8    60.7     3.40     4.00
3.16     NO                    NO
 L0005021         0   0.15232E-03  733294.4 4056721.4    60.7     3.40     4.00
3.16     NO                    NO
 L0005022         0   0.15232E-03  733285.8 4056721.0    60.7     3.40     4.00
3.16     NO                    NO
 L0005023         0   0.15232E-03  733277.2 4056720.6    60.7     3.40     4.00
3.16     NO                    NO
 L0005024         0   0.15232E-03  733268.6 4056720.2    60.8     3.40     4.00
3.16     NO                    NO
 L0005025         0   0.15232E-03  733260.0 4056719.8    60.8     3.40     4.00
3.16     NO                    NO
 L0005026         0   0.15232E-03  733251.4 4056719.4    60.8     3.40     4.00
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3.16     NO                     NO
 L0005027         0   0.15232E-03  733242.8 4056719.0    60.8     3.40     4.00
3.16     NO                     NO
 L0005028         0   0.15232E-03  733234.2 4056718.6    60.8     3.40     4.00
3.16     NO                     NO
 L0005029         0   0.15232E-03  733225.6 4056718.2    60.8     3.40     4.00
3.16     NO                     NO
 L0005030         0   0.15232E-03  733217.0 4056717.8    60.9     3.40     4.00
3.16     NO                     NO
 L0005031         0   0.15232E-03  733208.5 4056717.4    60.9     3.40     4.00
3.16     NO                     NO
 L0005032         0   0.15232E-03  733199.9 4056717.0    60.9     3.40     4.00
3.16     NO                     NO
 L0005033         0   0.15232E-03  733191.3 4056716.6    60.9     3.40     4.00
3.16     NO                     NO
 L0005034         0   0.15232E-03  733182.7 4056716.2    60.9     3.40     4.00
3.16     NO                     NO
 L0005035         0   0.15232E-03  733174.1 4056715.8    61.0     3.40     4.00
3.16     NO                     NO
 L0005036         0   0.15232E-03  733165.5 4056715.4    61.0     3.40     4.00
3.16     NO                     NO
 L0005037         0   0.15232E-03  733156.9 4056715.0    61.0     3.40     4.00
3.16     NO                     NO
 L0005038         0   0.15232E-03  733148.3 4056714.6    61.1     3.40     4.00
3.16     NO                     NO
 L0005039         0   0.15232E-03  733139.7 4056714.2    61.1     3.40     4.00
3.16     NO                     NO
 L0005040         0   0.15232E-03  733131.1 4056713.8    61.1     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0005041         0   0.15232E-03  733122.5 4056713.4    61.1     3.40     4.00
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3.16     NO                    NO
 L0005042         0   0.15232E-03  733114.0 4056713.0    61.1     3.40     4.00
3.16     NO                    NO
 L0005043         0   0.15232E-03  733105.4 4056712.6    61.1     3.40     4.00
3.16     NO                    NO
 L0005044         0   0.15232E-03  733096.8 4056712.2    61.2     3.40     4.00
3.16     NO                    NO
 L0005045         0   0.15232E-03  733088.2 4056711.8    61.2     3.40     4.00
3.16     NO                    NO
 L0005046         0   0.15232E-03  733079.6 4056711.4    61.2     3.40     4.00
3.16     NO                    NO
 L0005047         0   0.15232E-03  733071.0 4056711.0    61.2     3.40     4.00
3.16     NO                    NO
 L0005048         0   0.15232E-03  733062.4 4056710.6    61.3     3.40     4.00
3.16     NO                    NO
 L0005049         0   0.15232E-03  733053.8 4056710.2    61.3     3.40     4.00
3.16     NO                    NO
 L0005050         0   0.15232E-03  733045.2 4056709.8    61.3     3.40     4.00
3.16     NO                    NO
 L0005051         0   0.15232E-03  733036.6 4056709.4    61.3     3.40     4.00
3.16     NO                    NO
 L0005052         0   0.15232E-03  733028.1 4056709.0    61.3     3.40     4.00
3.16     NO                    NO
 L0005053         0   0.15232E-03  733019.5 4056708.6    61.4     3.40     4.00
3.16     NO                    NO
 L0005054         0   0.15232E-03  733015.1 4056704.3    61.4     3.40     4.00
3.16     NO                    NO
 L0005055         0   0.15232E-03  733015.5 4056695.8    61.4     3.40     4.00
3.16     NO                    NO
 L0005056         0   0.15232E-03  733015.9 4056687.2    61.4     3.40     4.00
3.16     NO                    NO
 L0005057         0   0.15232E-03  733016.3 4056678.6    61.4     3.40     4.00
3.16     NO                    NO
 L0005058         0   0.15232E-03  733016.7 4056670.0    61.4     3.40     4.00
3.16     NO                    NO
 L0005059         0   0.15232E-03  733017.1 4056661.4    61.4     3.40     4.00
3.16     NO                    NO
 L0005060         0   0.15232E-03  733017.6 4056652.8    61.3     3.40     4.00
3.16     NO                    NO
 L0005061         0   0.15232E-03  733018.0 4056644.2    61.3     3.40     4.00
3.16     NO                    NO
 L0005062         0   0.15232E-03  733018.4 4056635.6    61.3     3.40     4.00
3.16     NO                    NO
 L0005063         0   0.15232E-03  733018.8 4056627.0    61.3     3.40     4.00
3.16     NO                    NO
 L0005064         0   0.15232E-03  733019.2 4056618.4    61.3     3.40     4.00
3.16     NO                    NO
 L0005065         0   0.15232E-03  733019.6 4056609.9    61.3     3.40     4.00
3.16     NO                    NO
 L0005066         0   0.15232E-03  733020.1 4056601.3    61.3     3.40     4.00
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3.16     NO                     NO
 L0005067         0   0.15232E-03  733020.5 4056592.7    61.3     3.40     4.00
3.16     NO                     NO
 L0005068         0   0.15232E-03  733020.9 4056584.1    61.3     3.40     4.00
3.16     NO                     NO
 L0005069         0   0.15232E-03  733021.3 4056575.5    61.3     3.40     4.00
3.16     NO                     NO
 L0005070         0   0.15232E-03  733021.7 4056566.9    61.3     3.40     4.00
3.16     NO                     NO
 L0005071         0   0.15232E-03  733022.1 4056558.3    61.3     3.40     4.00
3.16     NO                     NO
 L0005072         0   0.15232E-03  733022.6 4056549.7    61.3     3.40     4.00
3.16     NO                     NO
 L0005073         0   0.15232E-03  733023.0 4056541.1    61.3     3.40     4.00
3.16     NO                     NO
 L0005074         0   0.15232E-03  733023.4 4056532.5    61.3     3.40     4.00
3.16     NO                     NO
 L0005075         0   0.15232E-03  733023.8 4056524.0    61.3     3.40     4.00
3.16     NO                     NO
 L0005076         0   0.15232E-03  733024.2 4056515.4    61.3     3.40     4.00
3.16     NO                     NO
 L0005077         0   0.15232E-03  733024.6 4056506.8    61.3     3.40     4.00
3.16     NO                     NO
 L0005078         0   0.15232E-03  733025.0 4056498.2    61.3     3.40     4.00
3.16     NO                     NO
 L0005079         0   0.15232E-03  733025.5 4056489.6    61.3     3.40     4.00
3.16     NO                     NO
 L0005080         0   0.15232E-03  733025.9 4056481.0    61.3     3.40     4.00
3.16     NO                     NO
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT SCALAR VARY
L0005081	0	0.15232E-03	733026.3	4056472.4	61.3	3.40	4.00			

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3.16     NO                    NO
 L0005082         0   0.15232E-03  733026.7 4056463.8    61.3     3.40     4.00
3.16     NO                    NO
 L0005083         0   0.15232E-03  733027.1 4056455.2    61.3     3.40     4.00
3.16     NO                    NO
 L0005084         0   0.15232E-03  733027.5 4056446.6    61.3     3.40     4.00
3.16     NO                    NO
 L0005085         0   0.15232E-03  733028.0 4056438.1    61.3     3.40     4.00
3.16     NO                    NO
 L0005086         0   0.15232E-03  733028.4 4056429.5    61.3     3.40     4.00
3.16     NO                    NO
 L0005087         0   0.15232E-03  733028.8 4056420.9    61.3     3.40     4.00
3.16     NO                    NO
 L0005088         0   0.15232E-03  733029.2 4056412.3    61.3     3.40     4.00
3.16     NO                    NO
 L0005089         0   0.15232E-03  733029.6 4056403.7    61.3     3.40     4.00
3.16     NO                    NO
 L0005090         0   0.15232E-03  733030.0 4056395.1    61.3     3.40     4.00
3.16     NO                    NO
 L0005091         0   0.15232E-03  733030.4 4056386.5    61.3     3.40     4.00
3.16     NO                    NO
 L0005092         0   0.15232E-03  733030.9 4056377.9    61.3     3.40     4.00
3.16     NO                    NO
 L0005093         0   0.15232E-03  733031.3 4056369.3    61.3     3.40     4.00
3.16     NO                    NO
 L0005094         0   0.15232E-03  733031.7 4056360.8    61.3     3.40     4.00
3.16     NO                    NO
 L0005095         0   0.15232E-03  733032.1 4056352.2    61.3     3.40     4.00
3.16     NO                    NO
 L0005096         0   0.15232E-03  733032.5 4056343.6    61.3     3.40     4.00
3.16     NO                    NO
 L0005097         0   0.15232E-03  733032.9 4056335.0    61.3     3.40     4.00
3.16     NO                    NO
 L0005098         0   0.15232E-03  733033.4 4056326.4    61.3     3.40     4.00
3.16     NO                    NO
 L0005099         0   0.15232E-03  733033.8 4056317.8    61.3     3.40     4.00
3.16     NO                    NO
 L0005100         0   0.15232E-03  733034.2 4056309.2    61.3     3.40     4.00
3.16     NO                    NO
 L0005101         0   0.15232E-03  733034.6 4056300.6    61.3     3.40     4.00
3.16     NO                    NO
 L0005102         0   0.15232E-03  733035.0 4056292.0    61.3     3.40     4.00
3.16     NO                    NO
 L0005103         0   0.15232E-03  733035.4 4056283.4    61.3     3.40     4.00
3.16     NO                    NO
 L0005104         0   0.15232E-03  733035.9 4056274.9    61.3     3.40     4.00
3.16     NO                    NO
 L0005105         0   0.15232E-03  733036.3 4056266.3    61.3     3.40     4.00
3.16     NO                    NO
 L0005106         0   0.15232E-03  733036.7 4056257.7    61.3     3.40     4.00
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3.16 NO NO
L0005107 0 0.15232E-03 733037.1 4056249.1 61.3 3.40 4.00
3.16 NO NO
L0005108 0 0.15232E-03 733037.5 4056240.5 61.3 3.40 4.00
3.16 NO NO
L0005109 0 0.15232E-03 733037.9 4056231.9 61.3 3.40 4.00
3.16 NO NO
L0005110 0 0.15232E-03 733038.3 4056223.3 61.3 3.40 4.00
3.16 NO NO
L0005111 0 0.15232E-03 733038.8 4056214.7 61.3 3.40 4.00
3.16 NO NO
L0005112 0 0.15232E-03 733039.2 4056206.1 61.3 3.40 4.00
3.16 NO NO
L0005113 0 0.15232E-03 733039.6 4056197.5 61.3 3.40 4.00
3.16 NO NO
L0005114 0 0.15232E-03 733040.0 4056189.0 61.3 3.40 4.00
3.16 NO NO
L0005115 0 0.15232E-03 733040.4 4056180.4 61.3 3.40 4.00
3.16 NO NO
L0005116 0 0.15232E-03 733040.8 4056171.8 61.3 3.40 4.00
3.16 NO NO
L0005117 0 0.15232E-03 733032.9 4056170.7 61.3 3.40 4.00
3.16 NO NO
L0005118 0 0.15232E-03 733024.4 4056170.2 61.3 3.40 4.00
3.16 NO NO
L0005119 0 0.15232E-03 733015.8 4056169.7 61.3 3.40 4.00
3.16 NO NO
L0005120 0 0.15232E-03 733007.2 4056169.3 61.3 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT EMISSION RATE SCALAR VARY BY
L0005121	0	0.15232E-03	732998.6	4056168.8	61.4	3.40	4.00			

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3.16     NO                    NO
 L0005122         0   0.15232E-03  732990.0 4056168.3    61.4     3.40     4.00
3.16     NO                    NO
 L0005123         0   0.15232E-03  732981.4 4056167.9    61.4     3.40     4.00
3.16     NO                    NO
 L0005124         0   0.15232E-03  732972.8 4056167.4    61.4     3.40     4.00
3.16     NO                    NO
 L0005125         0   0.15232E-03  732964.2 4056166.9    61.5     3.40     4.00
3.16     NO                    NO
 L0005126         0   0.15232E-03  732955.7 4056166.4    61.5     3.40     4.00
3.16     NO                    NO
 L0005127         0   0.15232E-03  732947.1 4056166.0    61.5     3.40     4.00
3.16     NO                    NO
 L0005128         0   0.15232E-03  732938.5 4056165.5    61.5     3.40     4.00
3.16     NO                    NO
 L0005129         0   0.15232E-03  732929.9 4056165.0    61.5     3.40     4.00
3.16     NO                    NO
 L0005130         0   0.15232E-03  732921.3 4056164.5    61.5     3.40     4.00
3.16     NO                    NO
 L0005131         0   0.15232E-03  732912.7 4056164.1    61.6     3.40     4.00
3.16     NO                    NO
 L0005132         0   0.15232E-03  732904.1 4056163.6    61.6     3.40     4.00
3.16     NO                    NO
 L0005133         0   0.15232E-03  732895.5 4056163.1    61.6     3.40     4.00
3.16     NO                    NO
 L0005134         0   0.15232E-03  732887.0 4056162.7    61.6     3.40     4.00
3.16     NO                    NO
 L0005135         0   0.15232E-03  732878.4 4056162.2    61.6     3.40     4.00
3.16     NO                    NO
 L0005136         0   0.15232E-03  732869.8 4056161.7    61.7     3.40     4.00
3.16     NO                    NO
 L0005137         0   0.15232E-03  732861.2 4056161.2    61.7     3.40     4.00
3.16     NO                    NO
 L0005138         0   0.15232E-03  732852.6 4056160.8    61.7     3.40     4.00
3.16     NO                    NO
 L0005139         0   0.15232E-03  732844.0 4056160.3    61.7     3.40     4.00
3.16     NO                    NO
 L0005140         0   0.15232E-03  732835.4 4056159.8    61.7     3.40     4.00
3.16     NO                    NO
 L0005141         0   0.15232E-03  732826.8 4056159.4    61.8     3.40     4.00
3.16     NO                    NO
 L0005142         0   0.15232E-03  732818.3 4056158.9    61.8     3.40     4.00
3.16     NO                    NO
 L0005143         0   0.15232E-03  732809.7 4056158.4    61.8     3.40     4.00
3.16     NO                    NO
 L0005144         0   0.15232E-03  732801.1 4056157.9    61.8     3.40     4.00
3.16     NO                    NO
 L0005145         0   0.15232E-03  732792.5 4056157.5    61.8     3.40     4.00
3.16     NO                    NO
 L0005146         0   0.15232E-03  732783.9 4056157.0    61.8     3.40     4.00
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3.16     NO                     NO
 L0005147         0   0.15232E-03  732775.3 4056156.5    61.9     3.40     4.00
3.16     NO                     NO
 L0005148         0   0.15232E-03  732766.7 4056156.1    61.9     3.40     4.00
3.16     NO                     NO
 L0005149         0   0.15232E-03  732758.2 4056155.6    61.9     3.40     4.00
3.16     NO                     NO
 L0005150         0   0.15232E-03  732749.6 4056155.1    61.9     3.40     4.00
3.16     NO                     NO
 L0005151         0   0.15232E-03  732741.0 4056154.6    61.9     3.40     4.00
3.16     NO                     NO
 L0005152         0   0.15232E-03  732732.4 4056154.2    61.9     3.40     4.00
3.16     NO                     NO
 L0005153         0   0.15232E-03  732723.8 4056153.7    62.0     3.40     4.00
3.16     NO                     NO
 L0005154         0   0.15232E-03  732715.2 4056153.2    62.0     3.40     4.00
3.16     NO                     NO
 L0005155         0   0.15232E-03  732706.6 4056152.8    62.0     3.40     4.00
3.16     NO                     NO
 L0005156         0   0.15232E-03  732698.0 4056152.3    62.0     3.40     4.00
3.16     NO                     NO
 L0005157         0   0.15232E-03  732689.5 4056151.8    62.0     3.40     4.00
3.16     NO                     NO
 L0005158         0   0.15232E-03  732680.9 4056151.3    62.0     3.40     4.00
3.16     NO                     NO
 L0005159         0   0.15232E-03  732672.3 4056150.9    62.1     3.40     4.00
3.16     NO                     NO
 L0005160         0   0.15232E-03  732663.7 4056150.4    62.1     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0005161         0   0.15232E-03  732655.1 4056149.9    62.1     3.40     4.00
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3.16     NO                    NO
 L0005162         0   0.15232E-03  732646.5 4056149.5    62.1     3.40     4.00
3.16     NO                    NO
 L0005163         0   0.15232E-03  732637.9 4056149.0    62.2     3.40     4.00
3.16     NO                    NO
 L0005164         0   0.15232E-03  732629.3 4056148.5    62.2     3.40     4.00
3.16     NO                    NO
 L0005165         0   0.15232E-03  732620.8 4056148.0    62.2     3.40     4.00
3.16     NO                    NO
 L0005166         0   0.15232E-03  732612.2 4056147.6    62.2     3.40     4.00
3.16     NO                    NO
 L0005167         0   0.15232E-03  732603.6 4056147.1    62.2     3.40     4.00
3.16     NO                    NO
 L0005168         0   0.15232E-03  732595.0 4056146.6    62.2     3.40     4.00
3.16     NO                    NO
 L0005169         0   0.15232E-03  732586.4 4056146.1    62.3     3.40     4.00
3.16     NO                    NO
 L0005170         0   0.15232E-03  732577.8 4056145.7    62.3     3.40     4.00
3.16     NO                    NO
 L0005171         0   0.15232E-03  732569.2 4056145.2    62.3     3.40     4.00
3.16     NO                    NO
 L0005172         0   0.15232E-03  732560.6 4056144.7    62.3     3.40     4.00
3.16     NO                    NO
 L0005173         0   0.15232E-03  732552.1 4056144.3    62.3     3.40     4.00
3.16     NO                    NO
 L0005174         0   0.15232E-03  732543.5 4056143.8    62.3     3.40     4.00
3.16     NO                    NO
 L0005175         0   0.15232E-03  732534.9 4056143.3    62.4     3.40     4.00
3.16     NO                    NO
 L0005176         0   0.15232E-03  732526.3 4056142.8    62.4     3.40     4.00
3.16     NO                    NO
 L0005177         0   0.15232E-03  732517.7 4056142.4    62.4     3.40     4.00
3.16     NO                    NO
 L0005178         0   0.15232E-03  732509.1 4056141.9    62.4     3.40     4.00
3.16     NO                    NO
 L0005179         0   0.15232E-03  732500.5 4056141.4    62.4     3.40     4.00
3.16     NO                    NO
 L0005180         0   0.15232E-03  732492.0 4056141.0    62.5     3.40     4.00
3.16     NO                    NO
 L0005181         0   0.15232E-03  732483.4 4056140.5    62.5     3.40     4.00
3.16     NO                    NO
 L0005182         0   0.15232E-03  732474.8 4056140.0    62.5     3.40     4.00
3.16     NO                    NO
 L0005183         0   0.15232E-03  732466.2 4056139.5    62.5     3.40     4.00
3.16     NO                    NO
 L0005184         0   0.15232E-03  732457.6 4056139.1    62.5     3.40     4.00
3.16     NO                    NO
 L0005185         0   0.15232E-03  732449.0 4056138.6    62.6     3.40     4.00
3.16     NO                    NO
 L0005186         0   0.15232E-03  732440.4 4056138.1    62.6     3.40     4.00
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3.16     NO                     NO
 L0005187         0   0.15232E-03  732431.8 4056137.7    62.6     3.40     4.00
3.16     NO                     NO
 L0005188         0   0.15232E-03  732423.3 4056137.2    62.6     3.40     4.00
3.16     NO                     NO
 L0005189         0   0.15232E-03  732414.7 4056136.7    62.6     3.40     4.00
3.16     NO                     NO
 L0005190         0   0.15232E-03  732406.1 4056136.2    62.6     3.40     4.00
3.16     NO                     NO
 L0005191         0   0.15232E-03  732397.5 4056135.8    62.7     3.40     4.00
3.16     NO                     NO
 L0005192         0   0.15232E-03  732388.9 4056135.3    62.7     3.40     4.00
3.16     NO                     NO
 L0005193         0   0.15232E-03  732380.3 4056134.8    62.7     3.40     4.00
3.16     NO                     NO
 L0005194         0   0.15232E-03  732371.7 4056134.4    62.7     3.40     4.00
3.16     NO                     NO
 L0005195         0   0.15232E-03  732363.1 4056133.9    62.7     3.40     4.00
3.16     NO                     NO
 L0005196         0   0.15232E-03  732354.6 4056133.4    62.8     3.40     4.00
3.16     NO                     NO
 L0005197         0   0.15232E-03  732346.0 4056132.9    62.8     3.40     4.00
3.16     NO                     NO
 L0005198         0   0.15232E-03  732337.4 4056132.5    62.8     3.40     4.00
3.16     NO                     NO
 L0005199         0   0.15232E-03  732328.8 4056132.0    62.8     3.40     4.00
3.16     NO                     NO
 L0005200         0   0.15232E-03  732320.2 4056131.5    62.8     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE 132
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0005201         0   0.15232E-03  732311.6 4056131.0    62.8     3.40     4.00
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3.16     NO                    NO
 L0005202         0   0.15232E-03  732303.0 4056130.6    62.9     3.40     4.00
3.16     NO                    NO
 L0005203         0   0.15232E-03  732294.5 4056130.1    62.9     3.40     4.00
3.16     NO                    NO
 L0005204         0   0.15232E-03  732285.9 4056129.6    62.9     3.40     4.00
3.16     NO                    NO
 L0005205         0   0.15232E-03  732277.3 4056129.2    62.9     3.40     4.00
3.16     NO                    NO
 L0005206         0   0.15232E-03  732268.7 4056128.7    62.9     3.40     4.00
3.16     NO                    NO
 L0005207         0   0.15232E-03  732260.1 4056128.2    63.0     3.40     4.00
3.16     NO                    NO
 L0005208         0   0.15232E-03  732252.4 4056127.0    63.0     3.40     4.00
3.16     NO                    NO
 L0005209         0   0.15232E-03  732252.5 4056118.4    63.0     3.40     4.00
3.16     NO                    NO
 L0005210         0   0.15232E-03  732252.6 4056109.8    63.0     3.40     4.00
3.16     NO                    NO
 L0005211         0   0.15232E-03  732252.7 4056101.2    63.0     3.40     4.00
3.16     NO                    NO
 L0005212         0   0.15232E-03  732252.8 4056092.6    62.9     3.40     4.00
3.16     NO                    NO
 L0005213         0   0.15232E-03  732252.9 4056084.0    62.9     3.40     4.00
3.16     NO                    NO
 L0005214         0   0.15232E-03  732253.0 4056075.4    62.9     3.40     4.00
3.16     NO                    NO
 L0005215         0   0.15232E-03  732253.1 4056066.8    62.9     3.40     4.00
3.16     NO                    NO
 L0005216         0   0.15232E-03  732253.3 4056058.2    62.9     3.40     4.00
3.16     NO                    NO
 L0005217         0   0.15232E-03  732253.4 4056049.6    62.9     3.40     4.00
3.16     NO                    NO
 L0005218         0   0.15232E-03  732253.5 4056041.0    62.9     3.40     4.00
3.16     NO                    NO
 L0005219         0   0.15232E-03  732253.6 4056032.4    62.9     3.40     4.00
3.16     NO                    NO
 L0005220         0   0.15232E-03  732253.7 4056023.8    62.9     3.40     4.00
3.16     NO                    NO
 L0005221         0   0.15232E-03  732253.8 4056015.2    62.9     3.40     4.00
3.16     NO                    NO
 L0005222         0   0.15232E-03  732253.9 4056006.6    62.9     3.40     4.00
3.16     NO                    NO
 L0005223         0   0.15232E-03  732254.1 4055998.0    62.9     3.40     4.00
3.16     NO                    NO
 L0005224         0   0.15232E-03  732254.2 4055989.4    62.9     3.40     4.00
3.16     NO                    NO
 L0005225         0   0.15232E-03  732254.3 4055980.8    62.9     3.40     4.00
3.16     NO                    NO
 L0005226         0   0.15232E-03  732254.4 4055972.2    62.8     3.40     4.00
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3.16 NO NO
L0005227 0 0.15232E-03 732254.5 4055963.6 62.8 3.40 4.00
3.16 NO NO
L0005228 0 0.15232E-03 732254.6 4055955.0 62.8 3.40 4.00
3.16 NO NO
L0005229 0 0.15232E-03 732254.7 4055946.4 62.8 3.40 4.00
3.16 NO NO
L0005230 0 0.15232E-03 732254.8 4055937.8 62.8 3.40 4.00
3.16 NO NO
L0005231 0 0.15232E-03 732255.0 4055929.2 62.8 3.40 4.00
3.16 NO NO
L0005232 0 0.15232E-03 732255.1 4055920.6 62.8 3.40 4.00
3.16 NO NO
L0005233 0 0.15232E-03 732255.2 4055912.0 62.8 3.40 4.00
3.16 NO NO
L0005234 0 0.15232E-03 732255.3 4055903.4 62.8 3.40 4.00
3.16 NO NO
L0005235 0 0.15232E-03 732255.4 4055894.8 62.8 3.40 4.00
3.16 NO NO
L0005236 0 0.15232E-03 732255.5 4055886.2 62.8 3.40 4.00
3.16 NO NO
L0005237 0 0.15232E-03 732255.6 4055877.6 62.8 3.40 4.00
3.16 NO NO
L0005238 0 0.15232E-03 732255.8 4055869.0 62.8 3.40 4.00
3.16 NO NO
L0005239 0 0.15232E-03 732255.9 4055860.4 62.8 3.40 4.00
3.16 NO NO
L0005240 0 0.15232E-03 732256.0 4055851.8 62.8 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT EMISSION RATE SCALAR VARY
L0005241	0	0.15232E-03	732256.1	4055843.2	62.7	3.40	4.00			

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3.16     NO                    NO
 L0005242         0   0.15232E-03  732256.2 4055834.6    62.7     3.40     4.00
3.16     NO                    NO
 L0005243         0   0.15232E-03  732256.3 4055826.0    62.7     3.40     4.00
3.16     NO                    NO
 L0005244         0   0.15232E-03  732256.4 4055817.4    62.7     3.40     4.00
3.16     NO                    NO
 L0005245         0   0.15232E-03  732256.5 4055808.8    62.7     3.40     4.00
3.16     NO                    NO
 L0005246         0   0.15232E-03  732256.7 4055800.2    62.7     3.40     4.00
3.16     NO                    NO
 L0005247         0   0.15232E-03  732256.8 4055791.6    62.7     3.40     4.00
3.16     NO                    NO
 L0005248         0   0.15232E-03  732256.9 4055783.0    62.7     3.40     4.00
3.16     NO                    NO
 L0005249         0   0.15232E-03  732257.0 4055774.4    62.7     3.40     4.00
3.16     NO                    NO
 L0005250         0   0.15232E-03  732257.1 4055765.8    62.7     3.40     4.00
3.16     NO                    NO
 L0005251         0   0.15232E-03  732257.2 4055757.2    62.7     3.40     4.00
3.16     NO                    NO
 L0005252         0   0.15232E-03  732257.3 4055748.6    62.7     3.40     4.00
3.16     NO                    NO
 L0005253         0   0.15232E-03  732257.4 4055740.0    62.7     3.40     4.00
3.16     NO                    NO
 L0005254         0   0.15232E-03  732257.6 4055731.4    62.7     3.40     4.00
3.16     NO                    NO
 L0005255         0   0.15232E-03  732257.7 4055722.8    62.7     3.40     4.00
3.16     NO                    NO
 L0005256         0   0.15232E-03  732257.8 4055714.2    62.7     3.40     4.00
3.16     NO                    NO
 L0005257         0   0.15232E-03  732257.9 4055705.6    62.7     3.40     4.00
3.16     NO                    NO
 L0005258         0   0.15232E-03  732258.0 4055697.0    62.6     3.40     4.00
3.16     NO                    NO
 L0005259         0   0.15232E-03  732258.1 4055688.4    62.6     3.40     4.00
3.16     NO                    NO
 L0005260         0   0.15232E-03  732258.2 4055679.8    62.6     3.40     4.00
3.16     NO                    NO
 L0005261         0   0.15232E-03  732258.4 4055671.2    62.6     3.40     4.00
3.16     NO                    NO
 L0005262         0   0.15232E-03  732258.5 4055662.6    62.6     3.40     4.00
3.16     NO                    NO
 L0005263         0   0.15232E-03  732258.6 4055654.0    62.6     3.40     4.00
3.16     NO                    NO
 L0005264         0   0.15232E-03  732258.7 4055645.4    62.6     3.40     4.00
3.16     NO                    NO
 L0005265         0   0.15232E-03  732258.8 4055636.8    62.6     3.40     4.00
3.16     NO                    NO
 L0005266         0   0.15232E-03  732258.9 4055628.2    62.6     3.40     4.00
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3.16     NO                     NO
 L0005267         0   0.15232E-03  732259.0 4055619.6    62.6     3.40     4.00
3.16     NO                     NO
 L0005268         0   0.15232E-03  732259.1 4055611.0    62.6     3.40     4.00
3.16     NO                     NO
 L0005269         0   0.15232E-03  732259.3 4055602.4    62.6     3.40     4.00
3.16     NO                     NO
 L0005270         0   0.15232E-03  732259.4 4055593.8    62.5     3.40     4.00
3.16     NO                     NO
 L0005271         0   0.15232E-03  732259.5 4055585.2    62.5     3.40     4.00
3.16     NO                     NO
 L0005272         0   0.15232E-03  732259.6 4055576.6    62.5     3.40     4.00
3.16     NO                     NO
 L0005273         0   0.15232E-03  732259.7 4055568.0    62.5     3.40     4.00
3.16     NO                     NO
 L0005274         0   0.15232E-03  732259.8 4055559.4    62.5     3.40     4.00
3.16     NO                     NO
 L0005275         0   0.15232E-03  732259.9 4055550.8    62.5     3.40     4.00
3.16     NO                     NO
 L0005276         0   0.15232E-03  732260.1 4055542.2    62.5     3.40     4.00
3.16     NO                     NO
 L0005277         0   0.15232E-03  732260.2 4055533.6    62.5     3.40     4.00
3.16     NO                     NO
 L0005278         0   0.15232E-03  732260.3 4055525.0    62.5     3.40     4.00
3.16     NO                     NO
 L0005279         0   0.15232E-03  732260.4 4055516.4    62.5     3.40     4.00
3.16     NO                     NO
 L0005280         0   0.15232E-03  732260.5 4055507.8    62.5     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0005281         0   0.15232E-03  732260.6 4055499.2    62.5     3.40     4.00
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3.16     NO                    NO
 L0005282         0   0.15232E-03  732260.7 4055490.6    62.5     3.40     4.00
3.16     NO                    NO
 L0005283         0   0.15232E-03  732260.8 4055482.0    62.5     3.40     4.00
3.16     NO                    NO
 L0005284         0   0.15232E-03  732261.0 4055473.4    62.5     3.40     4.00
3.16     NO                    NO
 L0005285         0   0.15232E-03  732265.4 4055469.3    62.5     3.40     4.00
3.16     NO                    NO
 L0005286         0   0.15232E-03  732274.0 4055469.5    62.5     3.40     4.00
3.16     NO                    NO
 L0005287         0   0.15232E-03  732282.6 4055469.6    62.4     3.40     4.00
3.16     NO                    NO
 L0005288         0   0.15232E-03  732291.2 4055469.8    62.4     3.40     4.00
3.16     NO                    NO
 L0005289         0   0.15232E-03  732299.8 4055469.9    62.4     3.40     4.00
3.16     NO                    NO
 L0005290         0   0.15232E-03  732308.4 4055470.1    62.4     3.40     4.00
3.16     NO                    NO
 L0005291         0   0.15232E-03  732317.0 4055470.3    62.4     3.40     4.00
3.16     NO                    NO
 L0005292         0   0.15232E-03  732325.6 4055470.4    62.4     3.40     4.00
3.16     NO                    NO
 L0005293         0   0.15232E-03  732334.2 4055470.6    62.3     3.40     4.00
3.16     NO                    NO
 L0005294         0   0.15232E-03  732342.8 4055470.7    62.3     3.40     4.00
3.16     NO                    NO
 L0005295         0   0.15232E-03  732351.4 4055470.9    62.3     3.40     4.00
3.16     NO                    NO
 L0005296         0   0.15232E-03  732360.0 4055471.0    62.3     3.40     4.00
3.16     NO                    NO
 L0005297         0   0.15232E-03  732368.6 4055471.2    62.3     3.40     4.00
3.16     NO                    NO
 L0005298         0   0.15232E-03  732377.2 4055471.3    62.3     3.40     4.00
3.16     NO                    NO
 L0005299         0   0.15232E-03  732385.8 4055471.5    62.2     3.40     4.00
3.16     NO                    NO
 L0005300         0   0.15232E-03  732394.4 4055471.6    62.2     3.40     4.00
3.16     NO                    NO
 L0005301         0   0.15232E-03  732403.0 4055471.8    62.2     3.40     4.00
3.16     NO                    NO
 L0005302         0   0.15232E-03  732411.6 4055472.0    62.2     3.40     4.00
3.16     NO                    NO
 L0005303         0   0.15232E-03  732420.2 4055472.1    62.2     3.40     4.00
3.16     NO                    NO
 L0005304         0   0.15232E-03  732428.8 4055472.3    62.1     3.40     4.00
3.16     NO                    NO
 L0005305         0   0.15232E-03  732437.4 4055472.4    62.1     3.40     4.00
3.16     NO                    NO
 L0005306         0   0.15232E-03  732446.0 4055472.6    62.1     3.40     4.00
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3.16   NO   NO
 L0005307   0   0.15232E-03 732454.6 4055472.7   62.1   3.40   4.00
3.16   NO   NO
 L0005308   0   0.15232E-03 732463.2 4055472.9   62.1   3.40   4.00
3.16   NO   NO
 L0005309   0   0.15232E-03 732471.8 4055473.0   62.1   3.40   4.00
3.16   NO   NO
 L0005310   0   0.15232E-03 732480.4 4055473.2   62.0   3.40   4.00
3.16   NO   NO
 L0005311   0   0.15232E-03 732489.0 4055473.4   62.0   3.40   4.00
3.16   NO   NO
 L0005312   0   0.15232E-03 732497.6 4055473.5   62.0   3.40   4.00
3.16   NO   NO
 L0005313   0   0.15232E-03 732506.2 4055473.7   62.0   3.40   4.00
3.16   NO   NO
 L0005314   0   0.15232E-03 732514.8 4055473.8   62.0   3.40   4.00
3.16   NO   NO
 L0005315   0   0.15232E-03 732523.4 4055474.0   62.0   3.40   4.00
3.16   NO   NO
 L0005316   0   0.15232E-03 732532.0 4055474.1   61.9   3.40   4.00
3.16   NO   NO
 L0005317   0   0.15232E-03 732540.6 4055474.3   61.9   3.40   4.00
3.16   NO   NO
 L0005318   0   0.15232E-03 732549.2 4055474.4   61.9   3.40   4.00
3.16   NO   NO
 L0005319   0   0.15232E-03 732557.8 4055474.6   61.9   3.40   4.00
3.16   NO   NO
 L0005320   0   0.15232E-03 732566.4 4055474.7   61.9   3.40   4.00
3.16   NO   NO

                                                    *** VOLUME SOURCE DATA ***

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

 L0005321   0   0.15232E-03 732575.0 4055474.9   61.9   3.40   4.00

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3.16     NO                    NO
 L0005322         0   0.15232E-03  732583.6 4055475.1    61.8     3.40     4.00
3.16     NO                    NO
 L0005323         0   0.15232E-03  732592.2 4055475.2    61.8     3.40     4.00
3.16     NO                    NO
 L0005324         0   0.15232E-03  732600.8 4055475.4    61.8     3.40     4.00
3.16     NO                    NO
 L0005325         0   0.15232E-03  732609.4 4055475.5    61.8     3.40     4.00
3.16     NO                    NO
 L0005326         0   0.15232E-03  732618.0 4055475.7    61.8     3.40     4.00
3.16     NO                    NO
 L0005327         0   0.15232E-03  732626.6 4055475.8    61.8     3.40     4.00
3.16     NO                    NO
 L0005328         0   0.15232E-03  732635.2 4055476.0    61.7     3.40     4.00
3.16     NO                    NO
 L0005329         0   0.15232E-03  732643.8 4055476.1    61.7     3.40     4.00
3.16     NO                    NO
 L0005330         0   0.15232E-03  732652.4 4055476.3    61.7     3.40     4.00
3.16     NO                    NO
 L0005331         0   0.15232E-03  732661.0 4055476.5    61.7     3.40     4.00
3.16     NO                    NO
 L0005332         0   0.15232E-03  732669.6 4055476.6    61.7     3.40     4.00
3.16     NO                    NO
 L0005333         0   0.15232E-03  732678.2 4055476.8    61.7     3.40     4.00
3.16     NO                    NO
 L0005334         0   0.15232E-03  732686.8 4055476.9    61.7     3.40     4.00
3.16     NO                    NO
 L0005335         0   0.15232E-03  732695.4 4055477.1    61.7     3.40     4.00
3.16     NO                    NO
 L0005336         0   0.15232E-03  732704.0 4055477.2    61.6     3.40     4.00
3.16     NO                    NO
 L0005337         0   0.15232E-03  732712.6 4055477.4    61.6     3.40     4.00
3.16     NO                    NO
 L0005338         0   0.15232E-03  732721.2 4055477.5    61.6     3.40     4.00
3.16     NO                    NO
 L0005339         0   0.15232E-03  732729.8 4055477.7    61.6     3.40     4.00
3.16     NO                    NO
 L0005340         0   0.15232E-03  732738.4 4055477.8    61.6     3.40     4.00
3.16     NO                    NO
 L0005341         0   0.15232E-03  732747.0 4055478.0    61.6     3.40     4.00
3.16     NO                    NO
 L0005342         0   0.15232E-03  732755.6 4055478.2    61.5     3.40     4.00
3.16     NO                    NO
 L0005343         0   0.15232E-03  732764.2 4055478.3    61.5     3.40     4.00
3.16     NO                    NO
 L0005344         0   0.15232E-03  732772.8 4055478.5    61.5     3.40     4.00
3.16     NO                    NO
 L0005345         0   0.15232E-03  732781.4 4055478.6    61.5     3.40     4.00
3.16     NO                    NO
 L0005346         0   0.15232E-03  732790.0 4055478.8    61.5     3.40     4.00
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3.16 NO NO
L0005347 0 0.15232E-03 732798.6 4055478.9 61.5 3.40 4.00
3.16 NO NO
L0005348 0 0.15232E-03 732807.1 4055479.1 61.5 3.40 4.00
3.16 NO NO
L0005349 0 0.15232E-03 732815.7 4055479.2 61.5 3.40 4.00
3.16 NO NO
L0005350 0 0.15232E-03 732824.3 4055479.4 61.5 3.40 4.00
3.16 NO NO
L0005351 0 0.15232E-03 732832.9 4055479.5 61.4 3.40 4.00
3.16 NO NO
L0005352 0 0.15232E-03 732841.5 4055479.7 61.4 3.40 4.00
3.16 NO NO
L0005353 0 0.15232E-03 732850.1 4055479.9 61.4 3.40 4.00
3.16 NO NO
L0005354 0 0.15232E-03 732858.7 4055480.0 61.4 3.40 4.00
3.16 NO NO
L0005355 0 0.15232E-03 732867.3 4055480.2 61.4 3.40 4.00
3.16 NO NO
L0005356 0 0.15232E-03 732875.9 4055480.3 61.4 3.40 4.00
3.16 NO NO
L0005357 0 0.15232E-03 732884.5 4055480.5 61.4 3.40 4.00
3.16 NO NO
L0005358 0 0.15232E-03 732893.1 4055480.6 61.4 3.40 4.00
3.16 NO NO
L0005359 0 0.15232E-03 732901.7 4055480.8 61.3 3.40 4.00
3.16 NO NO
L0005360 0 0.15232E-03 732910.3 4055480.9 61.3 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT EMISSION RATE SCALAR VARY BY
L0005361	0	0.15232E-03	732918.9	4055481.1	61.3	3.40	4.00			

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3.16     NO                    NO
 L0005362         0   0.15232E-03  732927.5 4055481.3    61.3     3.40     4.00
3.16     NO                    NO
 L0005363         0   0.15232E-03  732936.1 4055481.4    61.3     3.40     4.00
3.16     NO                    NO
 L0005364         0   0.15232E-03  732944.7 4055481.6    61.3     3.40     4.00
3.16     NO                    NO
 L0005365         0   0.15232E-03  732953.3 4055481.7    61.3     3.40     4.00
3.16     NO                    NO
 L0005366         0   0.15232E-03  732961.9 4055481.9    61.3     3.40     4.00
3.16     NO                    NO
 L0005367         0   0.15232E-03  732970.5 4055482.0    61.2     3.40     4.00
3.16     NO                    NO
 L0005368         0   0.15232E-03  732979.1 4055482.2    61.2     3.40     4.00
3.16     NO                    NO
 L0005369         0   0.15232E-03  732987.7 4055482.3    61.2     3.40     4.00
3.16     NO                    NO
 L0005370         0   0.15232E-03  732996.3 4055482.5    61.2     3.40     4.00
3.16     NO                    NO
 L0005371         0   0.15232E-03  733004.9 4055482.6    61.2     3.40     4.00
3.16     NO                    NO
 L0005372         0   0.15232E-03  733013.5 4055482.8    61.2     3.40     4.00
3.16     NO                    NO
 L0005373         0   0.15232E-03  733022.1 4055483.0    61.2     3.40     4.00
3.16     NO                    NO
 L0005374         0   0.15232E-03  733030.7 4055483.1    61.1     3.40     4.00
3.16     NO                    NO
 L0005375         0   0.15232E-03  733039.3 4055483.3    61.1     3.40     4.00
3.16     NO                    NO
 L0005376         0   0.15232E-03  733047.9 4055483.4    61.1     3.40     4.00
3.16     NO                    NO
 L0005377         0   0.15232E-03  733056.5 4055483.6    61.1     3.40     4.00
3.16     NO                    NO
 L0005378         0   0.15232E-03  733065.1 4055483.7    61.1     3.40     4.00
3.16     NO                    NO
 L0005379         0   0.15232E-03  733073.7 4055483.9    61.1     3.40     4.00
3.16     NO                    NO
 L0005380         0   0.15232E-03  733082.3 4055484.0    61.0     3.40     4.00
3.16     NO                    NO
 L0005381         0   0.15232E-03  733090.9 4055484.2    61.0     3.40     4.00
3.16     NO                    NO
 L0005382         0   0.15232E-03  733099.5 4055484.4    61.0     3.40     4.00
3.16     NO                    NO
 L0005383         0   0.15232E-03  733108.1 4055484.5    61.0     3.40     4.00
3.16     NO                    NO
 L0005384         0   0.15232E-03  733116.7 4055484.7    61.0     3.40     4.00
3.16     NO                    NO
 L0005385         0   0.15232E-03  733125.3 4055484.8    60.9     3.40     4.00
3.16     NO                    NO
 L0005386         0   0.15232E-03  733133.9 4055485.0    60.9     3.40     4.00
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3.16   NO   NO
 L0005387   0   0.15232E-03 733142.5 4055485.1   60.9   3.40   4.00
3.16   NO   NO
 L0005388   0   0.15232E-03 733151.1 4055485.3   60.9   3.40   4.00
3.16   NO   NO
 L0005389   0   0.15232E-03 733159.7 4055485.4   60.9   3.40   4.00
3.16   NO   NO
 L0005390   0   0.15232E-03 733168.3 4055485.6   60.9   3.40   4.00
3.16   NO   NO
 L0005391   0   0.15232E-03 733176.9 4055485.7   60.9   3.40   4.00
3.16   NO   NO
 L0005392   0   0.15232E-03 733185.5 4055485.9   60.9   3.40   4.00
3.16   NO   NO
 L0005393   0   0.15232E-03 733194.1 4055486.1   60.9   3.40   4.00
3.16   NO   NO
 L0005394   0   0.15232E-03 733202.7 4055486.2   60.8   3.40   4.00
3.16   NO   NO
 L0005395   0   0.15232E-03 733211.3 4055486.4   60.8   3.40   4.00
3.16   NO   NO
 L0005396   0   0.15232E-03 733219.9 4055486.5   60.8   3.40   4.00
3.16   NO   NO
 L0005397   0   0.15232E-03 733228.5 4055487.1   60.8   3.40   4.00
3.16   NO   NO
 L0005398   0   0.15232E-03 733237.0 4055488.0   60.8   3.40   4.00
3.16   NO   NO
 L0005399   0   0.15232E-03 733245.6 4055488.8   60.8   3.40   4.00
3.16   NO   NO
 L0005400   0   0.15232E-03 733254.1 4055489.7   60.7   3.40   4.00
3.16   NO   NO

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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 L0005401   0   0.15232E-03 733262.7 4055490.6   60.7   3.40   4.00

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3.16     NO                    NO
 L0005402         0   0.15232E-03  733271.2 4055491.4    60.7     3.40     4.00
3.16     NO                    NO
 L0005403         0   0.15232E-03  733279.8 4055492.3    60.7     3.40     4.00
3.16     NO                    NO
 L0005404         0   0.15232E-03  733288.4 4055493.1    60.7     3.40     4.00
3.16     NO                    NO
 L0005405         0   0.15232E-03  733296.9 4055494.0    60.7     3.40     4.00
3.16     NO                    NO
 L0005406         0   0.15232E-03  733305.5 4055494.8    60.6     3.40     4.00
3.16     NO                    NO
 L0005407         0   0.15232E-03  733309.3 4055499.8    60.6     3.40     4.00
3.16     NO                    NO
 L0005408         0   0.15232E-03  733308.9 4055508.4    60.6     3.40     4.00
3.16     NO                    NO
 L0005409         0   0.15232E-03  733308.5 4055517.0    60.7     3.40     4.00
3.16     NO                    NO
 L0005410         0   0.15232E-03  733308.1 4055525.6    60.7     3.40     4.00
3.16     NO                    NO
 L0005411         0   0.15232E-03  733307.7 4055534.2    60.7     3.40     4.00
3.16     NO                    NO
 L0005412         0   0.15232E-03  733307.2 4055542.7    60.7     3.40     4.00
3.16     NO                    NO
 L0005413         0   0.15232E-03  733306.8 4055551.3    60.7     3.40     4.00
3.16     NO                    NO
 L0005414         0   0.15232E-03  733306.4 4055559.9    60.7     3.40     4.00
3.16     NO                    NO
 L0005415         0   0.15232E-03  733306.0 4055568.5    60.7     3.40     4.00
3.16     NO                    NO
 L0005416         0   0.15232E-03  733305.6 4055577.1    60.7     3.40     4.00
3.16     NO                    NO
 L0005417         0   0.15232E-03  733305.2 4055585.7    60.7     3.40     4.00
3.16     NO                    NO
 L0005418         0   0.15232E-03  733304.8 4055594.3    60.7     3.40     4.00
3.16     NO                    NO
 L0005419         0   0.15232E-03  733304.4 4055602.9    60.7     3.40     4.00
3.16     NO                    NO
 L0005420         0   0.15232E-03  733304.0 4055611.5    60.7     3.40     4.00
3.16     NO                    NO
 L0005421         0   0.15232E-03  733303.6 4055620.1    60.7     3.40     4.00
3.16     NO                    NO
 L0005422         0   0.15232E-03  733303.2 4055628.7    60.7     3.40     4.00
3.16     NO                    NO
 L0005423         0   0.15232E-03  733302.8 4055637.2    60.7     3.40     4.00
3.16     NO                    NO
 L0005424         0   0.15232E-03  733302.4 4055645.8    60.7     3.40     4.00
3.16     NO                    NO
 L0005425         0   0.15232E-03  733302.0 4055654.4    60.7     3.40     4.00
3.16     NO                    NO
 L0005426         0   0.15232E-03  733301.6 4055663.0    60.7     3.40     4.00
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3.16     NO                     NO
 L0005427         0   0.15232E-03  733301.2 4055671.6    60.7     3.40     4.00
3.16     NO                     NO
 L0005428         0   0.15232E-03  733300.8 4055680.2    60.7     3.40     4.00
3.16     NO                     NO
 L0005429         0   0.15232E-03  733300.3 4055688.8    60.7     3.40     4.00
3.16     NO                     NO
 L0005430         0   0.15232E-03  733299.9 4055697.4    60.7     3.40     4.00
3.16     NO                     NO
 L0005431         0   0.15232E-03  733299.5 4055706.0    60.7     3.40     4.00
3.16     NO                     NO
 L0005432         0   0.15232E-03  733299.1 4055714.6    60.7     3.40     4.00
3.16     NO                     NO
 L0005433         0   0.15232E-03  733298.7 4055723.1    60.6     3.40     4.00
3.16     NO                     NO
 L0005434         0   0.15232E-03  733298.3 4055731.7    60.6     3.40     4.00
3.16     NO                     NO
 L0005435         0   0.15232E-03  733297.9 4055740.3    60.6     3.40     4.00
3.16     NO                     NO
 L0005436         0   0.15232E-03  733297.5 4055748.9    60.7     3.40     4.00
3.16     NO                     NO
 L0005437         0   0.15232E-03  733297.1 4055757.5    60.7     3.40     4.00
3.16     NO                     NO
 L0005438         0   0.15232E-03  733296.7 4055766.1    60.7     3.40     4.00
3.16     NO                     NO
 L0005439         0   0.15232E-03  733296.3 4055774.7    60.7     3.40     4.00
3.16     NO                     NO
 L0005440         0   0.15232E-03  733295.9 4055783.3    60.7     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE 138
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0005441         0   0.15232E-03  733295.5 4055791.9    60.7     3.40     4.00
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3.16     NO                    NO
 L0005442         0   0.15232E-03  733295.1 4055800.5    60.7     3.40     4.00
3.16     NO                    NO
 L0005443         0   0.15232E-03  733294.7 4055809.1    60.7     3.40     4.00
3.16     NO                    NO
 L0005444         0   0.15232E-03  733294.3 4055817.6    60.7     3.40     4.00
3.16     NO                    NO
 L0005445         0   0.15232E-03  733293.9 4055826.2    60.7     3.40     4.00
3.16     NO                    NO
 L0005446         0   0.15232E-03  733293.4 4055834.8    60.7     3.40     4.00
3.16     NO                    NO
 L0005447         0   0.15232E-03  733293.0 4055843.4    60.7     3.40     4.00
3.16     NO                    NO
 L0005448         0   0.15232E-03  733292.6 4055852.0    60.7     3.40     4.00
3.16     NO                    NO
 L0005449         0   0.15232E-03  733292.2 4055860.6    60.7     3.40     4.00
3.16     NO                    NO
 L0005450         0   0.15232E-03  733291.8 4055869.2    60.7     3.40     4.00
3.16     NO                    NO
 L0005451         0   0.15232E-03  733291.4 4055877.8    60.7     3.40     4.00
3.16     NO                    NO
 L0005452         0   0.15232E-03  733291.0 4055886.4    60.7     3.40     4.00
3.16     NO                    NO
 L0005453         0   0.15232E-03  733290.6 4055895.0    60.7     3.40     4.00
3.16     NO                    NO
 L0005454         0   0.15232E-03  733290.2 4055903.5    60.7     3.40     4.00
3.16     NO                    NO
 L0005455         0   0.15232E-03  733289.8 4055912.1    60.7     3.40     4.00
3.16     NO                    NO
 L0005456         0   0.15232E-03  733289.4 4055920.7    60.7     3.40     4.00
3.16     NO                    NO
 L0005457         0   0.15232E-03  733289.0 4055929.3    60.6     3.40     4.00
3.16     NO                    NO
 L0005458         0   0.15232E-03  733288.6 4055937.9    60.6     3.40     4.00
3.16     NO                    NO
 L0005459         0   0.15232E-03  733288.2 4055946.5    60.6     3.40     4.00
3.16     NO                    NO
 L0005460         0   0.15232E-03  733287.8 4055955.1    60.6     3.40     4.00
3.16     NO                    NO
 L0005461         0   0.15232E-03  733287.4 4055963.7    60.6     3.40     4.00
3.16     NO                    NO
 L0005462         0   0.15232E-03  733287.0 4055972.3    60.6     3.40     4.00
3.16     NO                    NO
 L0005463         0   0.15232E-03  733286.5 4055980.9    60.6     3.40     4.00
3.16     NO                    NO
 L0005464         0   0.15232E-03  733286.1 4055989.4    60.6     3.40     4.00
3.16     NO                    NO
 L0005465         0   0.15232E-03  733285.7 4055998.0    60.6     3.40     4.00
3.16     NO                    NO
 L0005466         0   0.15232E-03  733285.3 4056006.6    60.6     3.40     4.00
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3.16   NO   NO
 L0005467   0   0.15232E-03 733284.9 4056015.2   60.6   3.40   4.00
3.16   NO   NO
 L0005468   0   0.15232E-03 733284.5 4056023.8   60.6   3.40   4.00
3.16   NO   NO
 L0005469   0   0.15232E-03 733284.1 4056032.4   60.6   3.40   4.00
3.16   NO   NO
 L0005470   0   0.15232E-03 733283.7 4056041.0   60.6   3.40   4.00
3.16   NO   NO
 L0005471   0   0.15232E-03 733283.3 4056049.6   60.6   3.40   4.00
3.16   NO   NO
 L0005472   0   0.15232E-03 733282.9 4056058.2   60.6   3.40   4.00
3.16   NO   NO
 L0005473   0   0.15232E-03 733282.5 4056066.8   60.6   3.40   4.00
3.16   NO   NO
 L0005474   0   0.15232E-03 733282.1 4056075.4   60.6   3.40   4.00
3.16   NO   NO
 L0005475   0   0.15232E-03 733281.7 4056083.9   60.6   3.40   4.00
3.16   NO   NO
 L0005476   0   0.15232E-03 733281.3 4056092.5   60.6   3.40   4.00
3.16   NO   NO
 L0005477   0   0.15232E-03 733280.9 4056101.1   60.6   3.40   4.00
3.16   NO   NO
 L0005478   0   0.15232E-03 733280.5 4056109.7   60.6   3.40   4.00
3.16   NO   NO
 L0005479   0   0.15232E-03 733280.1 4056118.3   60.7   3.40   4.00
3.16   NO   NO
 L0005480   0   0.15232E-03 733279.6 4056126.9   60.7   3.40   4.00
3.16   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

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

 L0005481   0   0.15232E-03 733279.2 4056135.5   60.7   3.40   4.00

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3.16     NO                    NO
 L0005482         0   0.15232E-03  733278.8 4056144.1    60.7     3.40     4.00
3.16     NO                    NO
 L0005483         0   0.15232E-03  733278.4 4056152.7    60.7     3.40     4.00
3.16     NO                    NO
 L0005484         0   0.15232E-03  733278.0 4056161.3    60.7     3.40     4.00
3.16     NO                    NO
 L0005485         0   0.15232E-03  733277.6 4056169.8    60.7     3.40     4.00
3.16     NO                    NO
 L0005486         0   0.15232E-03  733277.2 4056178.4    60.7     3.40     4.00
3.16     NO                    NO
 L0005487         0   0.15232E-03  733276.8 4056187.0    60.7     3.40     4.00
3.16     NO                    NO
 L0005488         0   0.15232E-03  733276.4 4056195.6    60.7     3.40     4.00
3.16     NO                    NO
 L0005489         0   0.15232E-03  733276.0 4056204.2    60.7     3.40     4.00
3.16     NO                    NO
 L0005490         0   0.15232E-03  733275.6 4056212.8    60.7     3.40     4.00
3.16     NO                    NO
 L0005491         0   0.15232E-03  733275.2 4056221.4    60.7     3.40     4.00
3.16     NO                    NO
 L0005492         0   0.15232E-03  733274.8 4056230.0    60.7     3.40     4.00
3.16     NO                    NO
 L0005493         0   0.15232E-03  733274.4 4056238.6    60.7     3.40     4.00
3.16     NO                    NO
 L0005494         0   0.15232E-03  733274.0 4056247.2    60.7     3.40     4.00
3.16     NO                    NO
 L0005495         0   0.15232E-03  733273.6 4056255.8    60.7     3.40     4.00
3.16     NO                    NO
 L0005496         0   0.15232E-03  733273.2 4056264.3    60.7     3.40     4.00
3.16     NO                    NO
 L0005497         0   0.15232E-03  733272.7 4056272.9    60.7     3.40     4.00
3.16     NO                    NO
 L0005498         0   0.15232E-03  733272.3 4056281.5    60.7     3.40     4.00
3.16     NO                    NO
 L0005499         0   0.15232E-03  733271.9 4056290.1    60.7     3.40     4.00
3.16     NO                    NO
 L0005500         0   0.15232E-03  733271.5 4056298.7    60.7     3.40     4.00
3.16     NO                    NO
 L0005501         0   0.15232E-03  733271.1 4056307.3    60.7     3.40     4.00
3.16     NO                    NO
 L0005502         0   0.15232E-03  733270.7 4056315.9    60.7     3.40     4.00
3.16     NO                    NO
 L0005503         0   0.15232E-03  733270.3 4056324.5    60.7     3.40     4.00
3.16     NO                    NO
 L0005504         0   0.15232E-03  733269.9 4056333.1    60.8     3.40     4.00
3.16     NO                    NO
 L0005505         0   0.15232E-03  733269.5 4056341.7    60.8     3.40     4.00
3.16     NO                    NO
 L0005506         0   0.15232E-03  733269.1 4056350.2    60.8     3.40     4.00
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3.16 NO NO
L0005507 0 0.15232E-03 733268.7 4056358.8 60.8 3.40 4.00
3.16 NO NO
L0005508 0 0.15232E-03 733268.3 4056367.4 60.8 3.40 4.00
3.16 NO NO
L0005509 0 0.15232E-03 733267.9 4056376.0 60.8 3.40 4.00
3.16 NO NO
L0005510 0 0.15232E-03 733267.5 4056384.6 60.8 3.40 4.00
3.16 NO NO
L0005511 0 0.15232E-03 733267.1 4056393.2 60.8 3.40 4.00
3.16 NO NO
L0005512 0 0.15232E-03 733266.7 4056401.8 60.8 3.40 4.00
3.16 NO NO
L0005513 0 0.15232E-03 733266.3 4056410.4 60.8 3.40 4.00
3.16 NO NO
L0005514 0 0.15232E-03 733265.8 4056419.0 60.8 3.40 4.00
3.16 NO NO
L0005515 0 0.15232E-03 733265.4 4056427.6 60.8 3.40 4.00
3.16 NO NO
L0005516 0 0.15232E-03 733265.0 4056436.2 60.8 3.40 4.00
3.16 NO NO
L0005517 0 0.15232E-03 733264.6 4056444.7 60.8 3.40 4.00
3.16 NO NO
L0005518 0 0.15232E-03 733264.2 4056453.3 60.8 3.40 4.00
3.16 NO NO
L0005519 0 0.15232E-03 733263.8 4056461.9 60.8 3.40 4.00
3.16 NO NO
L0005520 0 0.15232E-03 733263.4 4056470.5 60.8 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT EMISSION RATE SCALAR VARY BY
L0005521	0	0.15232E-03	733263.0	4056479.1	60.8	3.40	4.00			

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3.16     NO                    NO
 L0005522         0   0.15232E-03  733262.6 4056487.7    60.8     3.40     4.00
3.16     NO                    NO
 L0005523         0   0.15232E-03  733262.2 4056496.3    60.8     3.40     4.00
3.16     NO                    NO
 L0005524         0   0.15232E-03  733261.8 4056504.9    60.8     3.40     4.00
3.16     NO                    NO
 L0005525         0   0.15232E-03  733261.4 4056513.5    60.8     3.40     4.00
3.16     NO                    NO
 L0005526         0   0.15232E-03  733261.0 4056522.1    60.8     3.40     4.00
3.16     NO                    NO
 L0005527         0   0.15232E-03  733260.6 4056530.6    60.8     3.40     4.00
3.16     NO                    NO
 L0005528         0   0.15232E-03  733260.2 4056539.2    60.8     3.40     4.00
3.16     NO                    NO
 L0005529         0   0.15232E-03  733259.8 4056547.8    60.8     3.40     4.00
3.16     NO                    NO
 L0005530         0   0.15232E-03  733259.4 4056556.4    60.8     3.40     4.00
3.16     NO                    NO
 L0005531         0   0.15232E-03  733258.9 4056565.0    60.8     3.40     4.00
3.16     NO                    NO
 L0005532         0   0.15232E-03  733258.5 4056573.6    60.8     3.40     4.00
3.16     NO                    NO
 L0005533         0   0.15232E-03  733258.1 4056582.2    60.8     3.40     4.00
3.16     NO                    NO
 L0005534         0   0.15232E-03  733257.7 4056590.8    60.8     3.40     4.00
3.16     NO                    NO
 L0005535         0   0.15232E-03  733253.8 4056595.5    60.8     3.40     4.00
3.16     NO                    NO
 L0005536         0   0.15232E-03  733245.3 4056595.0    60.8     3.40     4.00
3.16     NO                    NO
 L0005537         0   0.15232E-03  733236.7 4056594.6    60.8     3.40     4.00
3.16     NO                    NO
 L0005538         0   0.15232E-03  733228.1 4056594.1    60.8     3.40     4.00
3.16     NO                    NO
 L0005539         0   0.15232E-03  733219.5 4056593.6    60.9     3.40     4.00
3.16     NO                    NO
 L0005540         0   0.15232E-03  733210.9 4056593.1    60.9     3.40     4.00
3.16     NO                    NO
 L0005541         0   0.15232E-03  733202.3 4056592.6    60.9     3.40     4.00
3.16     NO                    NO
 L0005542         0   0.15232E-03  733193.7 4056592.2    60.9     3.40     4.00
3.16     NO                    NO
 L0005543         0   0.15232E-03  733185.1 4056591.7    60.9     3.40     4.00
3.16     NO                    NO
 L0005544         0   0.15232E-03  733176.6 4056591.2    61.0     3.40     4.00
3.16     NO                    NO
 L0005545         0   0.15232E-03  733168.0 4056590.7    61.0     3.40     4.00
3.16     NO                    NO
 L0005546         0   0.15232E-03  733159.4 4056590.3    61.0     3.40     4.00
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3.16   NO   NO
 L0005547   0   0.15232E-03 733150.8 4056589.8   61.1   3.40   4.00
3.16   NO   NO
 L0005548   0   0.15232E-03 733142.2 4056589.3   61.1   3.40   4.00
3.16   NO   NO
 L0005549   0   0.15232E-03 733133.6 4056588.8   61.1   3.40   4.00
3.16   NO   NO
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3.16   NO   NO
 L0005551   0   0.15232E-03 733116.5 4056587.9   61.1   3.40   4.00
3.16   NO   NO
 L0005552   0   0.15232E-03 733107.9 4056587.4   61.1   3.40   4.00
3.16   NO   NO
 L0005553   0   0.15232E-03 733101.6 4056584.8   61.2   3.40   4.00
3.16   NO   NO
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3.16   NO   NO
 L0005555   0   0.15232E-03 733102.1 4056567.6   61.2   3.40   4.00
3.16   NO   NO
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3.16   NO   NO
 L0005557   0   0.15232E-03 733102.7 4056550.4   61.1   3.40   4.00
3.16   NO   NO
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3.16   NO   NO
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3.16   NO   NO
 L0005560   0   0.15232E-03 733103.5 4056524.6   61.1   3.40   4.00
3.16   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

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

 L0005561   0   0.15232E-03 733103.7 4056516.0   61.1   3.40   4.00

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3.16     NO                    NO
 L0005562         0   0.15232E-03  733104.0 4056507.4    61.1     3.40     4.00
3.16     NO                    NO
 L0005563         0   0.15232E-03  733104.3 4056498.8    61.1     3.40     4.00
3.16     NO                    NO
 L0005564         0   0.15232E-03  733104.6 4056490.2    61.1     3.40     4.00
3.16     NO                    NO
 L0005565         0   0.15232E-03  733104.8 4056481.6    61.1     3.40     4.00
3.16     NO                    NO
 L0005566         0   0.15232E-03  733105.1 4056473.0    61.1     3.40     4.00
3.16     NO                    NO
 L0005567         0   0.15232E-03  733105.4 4056464.5    61.1     3.40     4.00
3.16     NO                    NO
 L0005568         0   0.15232E-03  733105.6 4056455.9    61.1     3.40     4.00
3.16     NO                    NO
 L0005569         0   0.15232E-03  733105.9 4056447.3    61.1     3.40     4.00
3.16     NO                    NO
 L0005570         0   0.15232E-03  733106.2 4056438.7    61.1     3.40     4.00
3.16     NO                    NO
 L0005571         0   0.15232E-03  733106.4 4056430.1    61.1     3.40     4.00
3.16     NO                    NO
 L0005572         0   0.15232E-03  733106.7 4056421.5    61.1     3.40     4.00
3.16     NO                    NO
 L0005573         0   0.15232E-03  733107.0 4056412.9    61.1     3.40     4.00
3.16     NO                    NO
 L0005574         0   0.15232E-03  733107.2 4056404.3    61.1     3.40     4.00
3.16     NO                    NO
 L0005575         0   0.15232E-03  733107.5 4056395.7    61.1     3.40     4.00
3.16     NO                    NO
 L0005576         0   0.15232E-03  733107.8 4056387.1    61.1     3.40     4.00
3.16     NO                    NO
 L0005577         0   0.15232E-03  733108.0 4056378.5    61.1     3.40     4.00
3.16     NO                    NO
 L0005578         0   0.15232E-03  733108.3 4056369.9    61.1     3.40     4.00
3.16     NO                    NO
 L0005579         0   0.15232E-03  733108.6 4056361.3    61.1     3.40     4.00
3.16     NO                    NO
 L0005580         0   0.15232E-03  733108.8 4056352.7    61.1     3.40     4.00
3.16     NO                    NO
 L0005581         0   0.15232E-03  733109.1 4056344.1    61.1     3.40     4.00
3.16     NO                    NO
 L0005582         0   0.15232E-03  733109.4 4056335.5    61.1     3.40     4.00
3.16     NO                    NO
 L0005583         0   0.15232E-03  733109.7 4056326.9    61.1     3.40     4.00
3.16     NO                    NO
 L0005584         0   0.15232E-03  733109.9 4056318.3    61.1     3.40     4.00
3.16     NO                    NO
 L0005585         0   0.15232E-03  733110.2 4056309.7    61.1     3.40     4.00
3.16     NO                    NO
 L0005586         0   0.15232E-03  733110.5 4056301.1    61.1     3.40     4.00
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3.16     NO                     NO
 L0005587         0   0.15232E-03  733110.7 4056292.5    61.1     3.40     4.00
3.16     NO                     NO
 L0005588         0   0.15232E-03  733111.0 4056283.9    61.1     3.40     4.00
3.16     NO                     NO
 L0005589         0   0.15232E-03  733111.3 4056275.3    61.1     3.40     4.00
3.16     NO                     NO
 L0005590         0   0.15232E-03  733111.5 4056266.7    61.1     3.40     4.00
3.16     NO                     NO
 L0005591         0   0.15232E-03  733111.8 4056258.2    61.1     3.40     4.00
3.16     NO                     NO
 L0005592         0   0.15232E-03  733112.1 4056249.6    61.1     3.40     4.00
3.16     NO                     NO
 L0005593         0   0.15232E-03  733112.3 4056241.0    61.1     3.40     4.00
3.16     NO                     NO
 L0005594         0   0.15232E-03  733112.6 4056232.4    61.1     3.40     4.00
3.16     NO                     NO
 L0005595         0   0.15232E-03  733112.9 4056223.8    61.1     3.40     4.00
3.16     NO                     NO
 L0005596         0   0.15232E-03  733113.1 4056215.2    61.1     3.40     4.00
3.16     NO                     NO
 L0005597         0   0.15232E-03  733113.4 4056206.6    61.1     3.40     4.00
3.16     NO                     NO
 L0005598         0   0.15232E-03  733113.7 4056198.0    61.1     3.40     4.00
3.16     NO                     NO
 L0005599         0   0.15232E-03  733114.0 4056189.4    61.1     3.40     4.00
3.16     NO                     NO
 L0005600         0   0.15232E-03  733114.2 4056180.8    61.1     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0005601         0   0.15232E-03  733114.5 4056172.2    61.1     3.40     4.00
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3.16     NO                    NO
 L0005602         0   0.15232E-03  733114.8 4056163.6    61.1     3.40     4.00
3.16     NO                    NO
 L0005603         0   0.15232E-03  733115.0 4056155.0    61.1     3.40     4.00
3.16     NO                    NO
 L0005604         0   0.15232E-03  733115.3 4056146.4    61.1     3.40     4.00
3.16     NO                    NO
 L0005605         0   0.15232E-03  733115.6 4056137.8    61.1     3.40     4.00
3.16     NO                    NO
 L0005606         0   0.15232E-03  733115.8 4056129.2    61.1     3.40     4.00
3.16     NO                    NO
 L0005607         0   0.15232E-03  733116.1 4056120.6    61.1     3.40     4.00
3.16     NO                    NO
 L0005608         0   0.15232E-03  733116.4 4056112.0    61.1     3.40     4.00
3.16     NO                    NO
 L0005609         0   0.15232E-03  733116.6 4056103.4    61.1     3.40     4.00
3.16     NO                    NO
 L0005610         0   0.15232E-03  733116.9 4056094.8    61.1     3.40     4.00
3.16     NO                    NO
 L0005611         0   0.15232E-03  733117.2 4056086.2    61.1     3.40     4.00
3.16     NO                    NO
 L0005612         0   0.15232E-03  733117.4 4056077.6    61.1     3.40     4.00
3.16     NO                    NO
 L0005613         0   0.15232E-03  733117.7 4056069.0    61.1     3.40     4.00
3.16     NO                    NO
 L0005614         0   0.15232E-03  733118.0 4056060.4    61.1     3.40     4.00
3.16     NO                    NO
 L0005615         0   0.15232E-03  733118.3 4056051.9    61.1     3.40     4.00
3.16     NO                    NO
 L0005616         0   0.15232E-03  733118.5 4056043.3    61.1     3.40     4.00
3.16     NO                    NO
 L0005617         0   0.15232E-03  733118.8 4056034.7    61.1     3.40     4.00
3.16     NO                    NO
 L0005618         0   0.15232E-03  733112.4 4056032.3    61.1     3.40     4.00
3.16     NO                    NO
 L0005619         0   0.15232E-03  733103.8 4056032.1    61.1     3.40     4.00
3.16     NO                    NO
 L0005620         0   0.15232E-03  733095.2 4056031.9    61.1     3.40     4.00
3.16     NO                    NO
 L0005621         0   0.15232E-03  733086.7 4056031.7    61.1     3.40     4.00
3.16     NO                    NO
 L0005622         0   0.15232E-03  733078.1 4056031.5    61.2     3.40     4.00
3.16     NO                    NO
 L0005623         0   0.15232E-03  733069.5 4056031.3    61.2     3.40     4.00
3.16     NO                    NO
 L0005624         0   0.15232E-03  733060.9 4056031.1    61.2     3.40     4.00
3.16     NO                    NO
 L0005625         0   0.15232E-03  733052.3 4056030.9    61.3     3.40     4.00
3.16     NO                    NO
 L0005626         0   0.15232E-03  733043.7 4056030.7    61.3     3.40     4.00
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3.16 NO NO
L0005627 0 0.15232E-03 733035.1 4056030.5 61.3 3.40 4.00
3.16 NO NO
L0005628 0 0.15232E-03 733026.5 4056030.3 61.3 3.40 4.00
3.16 NO NO
L0005629 0 0.15232E-03 733017.9 4056030.1 61.3 3.40 4.00
3.16 NO NO
L0005630 0 0.15232E-03 733009.3 4056029.9 61.3 3.40 4.00
3.16 NO NO
L0005631 0 0.15232E-03 733000.7 4056029.7 61.4 3.40 4.00
3.16 NO NO
L0005632 0 0.15232E-03 732992.1 4056029.5 61.4 3.40 4.00
3.16 NO NO
L0005633 0 0.15232E-03 732983.5 4056029.3 61.4 3.40 4.00
3.16 NO NO
L0005634 0 0.15232E-03 732974.9 4056029.0 61.4 3.40 4.00
3.16 NO NO
L0005635 0 0.15232E-03 732966.3 4056028.8 61.4 3.40 4.00
3.16 NO NO
L0005636 0 0.15232E-03 732957.7 4056028.6 61.5 3.40 4.00
3.16 NO NO
L0005637 0 0.15232E-03 732949.1 4056028.4 61.5 3.40 4.00
3.16 NO NO
L0005638 0 0.15232E-03 732940.5 4056028.2 61.5 3.40 4.00
3.16 NO NO
L0005639 0 0.15232E-03 732931.9 4056028.0 61.5 3.40 4.00
3.16 NO NO
L0005640 0 0.15232E-03 732923.3 4056027.8 61.6 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT SCALAR VARY BY
L0005641	0	0.15232E-03	732914.7	4056027.6	61.6	3.40	4.00			

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3.16     NO                    NO
 L0005642         0   0.15232E-03  732906.1 4056027.4    61.6     3.40     4.00
3.16     NO                    NO
 L0005643         0   0.15232E-03  732897.5 4056027.2    61.6     3.40     4.00
3.16     NO                    NO
 L0005644         0   0.15232E-03  732888.9 4056027.0    61.6     3.40     4.00
3.16     NO                    NO
 L0005645         0   0.15232E-03  732880.3 4056026.8    61.7     3.40     4.00
3.16     NO                    NO
 L0005646         0   0.15232E-03  732871.7 4056026.6    61.7     3.40     4.00
3.16     NO                    NO
 L0005647         0   0.15232E-03  732863.1 4056026.4    61.7     3.40     4.00
3.16     NO                    NO
 L0005648         0   0.15232E-03  732854.5 4056026.2    61.7     3.40     4.00
3.16     NO                    NO
 L0005649         0   0.15232E-03  732845.9 4056026.0    61.7     3.40     4.00
3.16     NO                    NO
 L0005650         0   0.15232E-03  732837.3 4056025.8    61.7     3.40     4.00
3.16     NO                    NO
 L0005651         0   0.15232E-03  732828.7 4056025.6    61.8     3.40     4.00
3.16     NO                    NO
 L0005652         0   0.15232E-03  732820.1 4056025.4    61.8     3.40     4.00
3.16     NO                    NO
 L0005653         0   0.15232E-03  732811.5 4056025.2    61.8     3.40     4.00
3.16     NO                    NO
 L0005654         0   0.15232E-03  732802.9 4056025.0    61.8     3.40     4.00
3.16     NO                    NO
 L0005655         0   0.15232E-03  732794.3 4056024.8    61.8     3.40     4.00
3.16     NO                    NO
 L0005656         0   0.15232E-03  732785.7 4056024.5    61.8     3.40     4.00
3.16     NO                    NO
 L0005657         0   0.15232E-03  732777.1 4056024.3    61.9     3.40     4.00
3.16     NO                    NO
 L0005658         0   0.15232E-03  732768.5 4056024.1    61.9     3.40     4.00
3.16     NO                    NO
 L0005659         0   0.15232E-03  732759.9 4056023.9    61.9     3.40     4.00
3.16     NO                    NO
 L0005660         0   0.15232E-03  732751.3 4056023.7    61.9     3.40     4.00
3.16     NO                    NO
 L0005661         0   0.15232E-03  732742.7 4056023.5    61.9     3.40     4.00
3.16     NO                    NO
 L0005662         0   0.15232E-03  732734.2 4056023.3    61.9     3.40     4.00
3.16     NO                    NO
 L0005663         0   0.15232E-03  732725.6 4056023.1    62.0     3.40     4.00
3.16     NO                    NO
 L0005664         0   0.15232E-03  732717.0 4056022.9    62.0     3.40     4.00
3.16     NO                    NO
 L0005665         0   0.15232E-03  732708.4 4056022.7    62.0     3.40     4.00
3.16     NO                    NO
 L0005666         0   0.15232E-03  732699.8 4056022.5    62.0     3.40     4.00
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3.16   NO   NO
 L0005667   0   0.15232E-03 732691.2 4056022.3   62.0   3.40   4.00
3.16   NO   NO
 L0005668   0   0.15232E-03 732682.6 4056022.1   62.0   3.40   4.00
3.16   NO   NO
 L0005669   0   0.15232E-03 732674.0 4056021.9   62.1   3.40   4.00
3.16   NO   NO
 L0005670   0   0.15232E-03 732665.4 4056021.7   62.1   3.40   4.00
3.16   NO   NO
 L0005671   0   0.15232E-03 732656.8 4056021.5   62.1   3.40   4.00
3.16   NO   NO
 L0005672   0   0.15232E-03 732648.2 4056021.3   62.1   3.40   4.00
3.16   NO   NO
 L0005673   0   0.15232E-03 732639.6 4056021.1   62.1   3.40   4.00
3.16   NO   NO
 L0005674   0   0.15232E-03 732631.0 4056020.9   62.2   3.40   4.00
3.16   NO   NO
 L0005675   0   0.15232E-03 732622.4 4056020.7   62.2   3.40   4.00
3.16   NO   NO
 L0005676   0   0.15232E-03 732613.8 4056020.5   62.2   3.40   4.00
3.16   NO   NO
 L0005677   0   0.15232E-03 732605.2 4056020.2   62.2   3.40   4.00
3.16   NO   NO
 L0005678   0   0.15232E-03 732596.6 4056020.0   62.2   3.40   4.00
3.16   NO   NO
 L0005679   0   0.15232E-03 732588.0 4056019.8   62.2   3.40   4.00
3.16   NO   NO
 L0005680   0   0.15232E-03 732579.4 4056019.6   62.2   3.40   4.00
3.16   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

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

 L0005681   0   0.15232E-03 732570.8 4056019.4   62.2   3.40   4.00

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3.16     NO                    NO
 L0005682         0   0.15232E-03  732562.2 4056019.2    62.3     3.40     4.00
3.16     NO                    NO
 L0005683         0   0.15232E-03  732553.6 4056019.0    62.3     3.40     4.00
3.16     NO                    NO
 L0005684         0   0.15232E-03  732545.0 4056018.8    62.3     3.40     4.00
3.16     NO                    NO
 L0005685         0   0.15232E-03  732536.4 4056018.6    62.3     3.40     4.00
3.16     NO                    NO
 L0005686         0   0.15232E-03  732527.8 4056018.4    62.3     3.40     4.00
3.16     NO                    NO
 L0005687         0   0.15232E-03  732519.2 4056018.2    62.3     3.40     4.00
3.16     NO                    NO
 L0005688         0   0.15232E-03  732510.6 4056018.0    62.3     3.40     4.00
3.16     NO                    NO
 L0005689         0   0.15232E-03  732502.0 4056017.8    62.4     3.40     4.00
3.16     NO                    NO
 L0005690         0   0.15232E-03  732493.4 4056017.6    62.4     3.40     4.00
3.16     NO                    NO
 L0005691         0   0.15232E-03  732484.8 4056017.4    62.4     3.40     4.00
3.16     NO                    NO
 L0005692         0   0.15232E-03  732476.2 4056017.2    62.4     3.40     4.00
3.16     NO                    NO
 L0005693         0   0.15232E-03  732467.6 4056017.0    62.4     3.40     4.00
3.16     NO                    NO
 L0005694         0   0.15232E-03  732459.0 4056016.8    62.4     3.40     4.00
3.16     NO                    NO
 L0005695         0   0.15232E-03  732450.4 4056016.6    62.5     3.40     4.00
3.16     NO                    NO
 L0005696         0   0.15232E-03  732441.8 4056016.4    62.5     3.40     4.00
3.16     NO                    NO
 L0005697         0   0.15232E-03  732433.2 4056016.2    62.5     3.40     4.00
3.16     NO                    NO
 L0005698         0   0.15232E-03  732424.6 4056015.9    62.5     3.40     4.00
3.16     NO                    NO
 L0005699         0   0.15232E-03  732416.0 4056015.7    62.5     3.40     4.00
3.16     NO                    NO
 L0005700         0   0.15232E-03  732407.4 4056015.5    62.6     3.40     4.00
3.16     NO                    NO
 L0005701         0   0.15232E-03  732398.8 4056015.3    62.6     3.40     4.00
3.16     NO                    NO
 L0005702         0   0.15232E-03  732391.0 4056014.4    62.6     3.40     4.00
3.16     NO                    NO
 L0005703         0   0.15232E-03  732390.8 4056005.8    62.6     3.40     4.00
3.16     NO                    NO
 L0005704         0   0.15232E-03  732390.6 4055997.2    62.6     3.40     4.00
3.16     NO                    NO
 L0005705         0   0.15232E-03  732390.4 4055988.6    62.6     3.40     4.00
3.16     NO                    NO
 L0005706         0   0.15232E-03  732390.3 4055980.0    62.6     3.40     4.00
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3.16 NO NO
L0005707 0 0.15232E-03 732390.1 4055971.4 62.6 3.40 4.00
3.16 NO NO
L0005708 0 0.15232E-03 732389.9 4055962.8 62.5 3.40 4.00
3.16 NO NO
L0005709 0 0.15232E-03 732389.7 4055954.2 62.5 3.40 4.00
3.16 NO NO
L0005710 0 0.15232E-03 732389.6 4055945.6 62.5 3.40 4.00
3.16 NO NO
L0005711 0 0.15232E-03 732389.4 4055937.0 62.5 3.40 4.00
3.16 NO NO
L0005712 0 0.15232E-03 732389.2 4055928.4 62.5 3.40 4.00
3.16 NO NO
L0005713 0 0.15232E-03 732389.0 4055919.8 62.5 3.40 4.00
3.16 NO NO
L0005714 0 0.15232E-03 732388.9 4055911.2 62.5 3.40 4.00
3.16 NO NO
L0005715 0 0.15232E-03 732388.7 4055902.6 62.5 3.40 4.00
3.16 NO NO
L0005716 0 0.15232E-03 732388.5 4055894.0 62.5 3.40 4.00
3.16 NO NO
L0005717 0 0.15232E-03 732388.3 4055885.4 62.5 3.40 4.00
3.16 NO NO
L0005718 0 0.15232E-03 732388.2 4055876.8 62.5 3.40 4.00
3.16 NO NO
L0005719 0 0.15232E-03 732388.0 4055868.2 62.5 3.40 4.00
3.16 NO NO
L0005720 0 0.15232E-03 732387.8 4055859.6 62.5 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT EMISSION RATE SCALAR VARY
L0005721	0	0.15232E-03	732387.6	4055851.0	62.5	3.40	4.00			

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3.16     NO                    NO
 L0005722         0   0.15232E-03  732387.5 4055842.4    62.5     3.40     4.00
3.16     NO                    NO
 L0005723         0   0.15232E-03  732387.3 4055833.8    62.5     3.40     4.00
3.16     NO                    NO
 L0005724         0   0.15232E-03  732387.1 4055825.2    62.5     3.40     4.00
3.16     NO                    NO
 L0005725         0   0.15232E-03  732386.9 4055816.6    62.5     3.40     4.00
3.16     NO                    NO
 L0005726         0   0.15232E-03  732386.8 4055808.0    62.5     3.40     4.00
3.16     NO                    NO
 L0005727         0   0.15232E-03  732386.6 4055799.5    62.5     3.40     4.00
3.16     NO                    NO
 L0005728         0   0.15232E-03  732386.4 4055790.9    62.5     3.40     4.00
3.16     NO                    NO
 L0005729         0   0.15232E-03  732386.2 4055782.3    62.4     3.40     4.00
3.16     NO                    NO
 L0005730         0   0.15232E-03  732386.1 4055773.7    62.4     3.40     4.00
3.16     NO                    NO
 L0005731         0   0.15232E-03  732385.9 4055765.1    62.4     3.40     4.00
3.16     NO                    NO
 L0005732         0   0.15232E-03  732385.7 4055756.5    62.4     3.40     4.00
3.16     NO                    NO
 L0005733         0   0.15232E-03  732385.5 4055747.9    62.4     3.40     4.00
3.16     NO                    NO
 L0005734         0   0.15232E-03  732385.4 4055739.3    62.4     3.40     4.00
3.16     NO                    NO
 L0005735         0   0.15232E-03  732385.2 4055730.7    62.4     3.40     4.00
3.16     NO                    NO
 L0005736         0   0.15232E-03  732385.0 4055722.1    62.4     3.40     4.00
3.16     NO                    NO
 L0005737         0   0.15232E-03  732384.8 4055713.5    62.4     3.40     4.00
3.16     NO                    NO
 L0005738         0   0.15232E-03  732384.7 4055704.9    62.4     3.40     4.00
3.16     NO                    NO
 L0005739         0   0.15232E-03  732384.5 4055696.3    62.4     3.40     4.00
3.16     NO                    NO
 L0005740         0   0.15232E-03  732384.3 4055687.7    62.4     3.40     4.00
3.16     NO                    NO
 L0005741         0   0.15232E-03  732384.1 4055679.1    62.4     3.40     4.00
3.16     NO                    NO
 L0005742         0   0.15232E-03  732384.0 4055670.5    62.4     3.40     4.00
3.16     NO                    NO
 L0005743         0   0.15232E-03  732383.8 4055661.9    62.4     3.40     4.00
3.16     NO                    NO
 L0005744         0   0.15232E-03  732383.6 4055653.3    62.4     3.40     4.00
3.16     NO                    NO
 L0005745         0   0.15232E-03  732383.4 4055644.7    62.4     3.40     4.00
3.16     NO                    NO
 L0005746         0   0.15232E-03  732383.3 4055636.1    62.3     3.40     4.00
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3.16 NO NO
L0005747 0 0.15232E-03 732383.1 4055627.5 62.3 3.40 4.00
3.16 NO NO
L0005748 0 0.15232E-03 732382.9 4055618.9 62.3 3.40 4.00
3.16 NO NO
L0005749 0 0.15232E-03 732382.7 4055610.3 62.3 3.40 4.00
3.16 NO NO
L0005750 0 0.15232E-03 732382.6 4055601.7 62.3 3.40 4.00
3.16 NO NO
L0005751 0 0.15232E-03 732382.4 4055593.1 62.3 3.40 4.00
3.16 NO NO
L0005752 0 0.15232E-03 732388.4 4055590.8 62.3 3.40 4.00
3.16 NO NO
L0005753 0 0.15232E-03 732397.0 4055591.0 62.3 3.40 4.00
3.16 NO NO
L0005754 0 0.15232E-03 732405.6 4055591.3 62.2 3.40 4.00
3.16 NO NO
L0005755 0 0.15232E-03 732414.2 4055591.6 62.2 3.40 4.00
3.16 NO NO
L0005756 0 0.15232E-03 732422.8 4055591.9 62.2 3.40 4.00
3.16 NO NO
L0005757 0 0.15232E-03 732431.4 4055592.2 62.2 3.40 4.00
3.16 NO NO
L0005758 0 0.15232E-03 732440.0 4055592.5 62.2 3.40 4.00
3.16 NO NO
L0005759 0 0.15232E-03 732448.5 4055592.8 62.2 3.40 4.00
3.16 NO NO
L0005760 0 0.15232E-03 732457.1 4055593.1 62.2 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT SCALAR VARY BY
L0005761	0	0.15232E-03	732465.7	4055593.4	62.2	3.40	4.00			

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3.16     NO                    NO
 L0005762         0   0.15232E-03  732474.3 4055593.7    62.1     3.40     4.00
3.16     NO                    NO
 L0005763         0   0.15232E-03  732482.9 4055593.9    62.1     3.40     4.00
3.16     NO                    NO
 L0005764         0   0.15232E-03  732491.5 4055594.2    62.1     3.40     4.00
3.16     NO                    NO
 L0005765         0   0.15232E-03  732500.1 4055594.5    62.1     3.40     4.00
3.16     NO                    NO
 L0005766         0   0.15232E-03  732508.7 4055594.8    62.1     3.40     4.00
3.16     NO                    NO
 L0005767         0   0.15232E-03  732517.3 4055595.1    62.1     3.40     4.00
3.16     NO                    NO
 L0005768         0   0.15232E-03  732525.9 4055595.4    62.0     3.40     4.00
3.16     NO                    NO
 L0005769         0   0.15232E-03  732534.5 4055595.7    62.0     3.40     4.00
3.16     NO                    NO
 L0005770         0   0.15232E-03  732543.1 4055596.0    62.0     3.40     4.00
3.16     NO                    NO
 L0005771         0   0.15232E-03  732551.7 4055596.3    62.0     3.40     4.00
3.16     NO                    NO
 L0005772         0   0.15232E-03  732560.3 4055596.6    62.0     3.40     4.00
3.16     NO                    NO
 L0005773         0   0.15232E-03  732568.9 4055596.8    62.0     3.40     4.00
3.16     NO                    NO
 L0005774         0   0.15232E-03  732577.5 4055597.1    61.9     3.40     4.00
3.16     NO                    NO
 L0005775         0   0.15232E-03  732586.1 4055597.4    61.9     3.40     4.00
3.16     NO                    NO
 L0005776         0   0.15232E-03  732594.7 4055597.7    61.9     3.40     4.00
3.16     NO                    NO
 L0005777         0   0.15232E-03  732603.3 4055598.0    61.9     3.40     4.00
3.16     NO                    NO
 L0005778         0   0.15232E-03  732611.9 4055598.3    61.9     3.40     4.00
3.16     NO                    NO
 L0005779         0   0.15232E-03  732620.4 4055598.6    61.9     3.40     4.00
3.16     NO                    NO
 L0005780         0   0.15232E-03  732629.0 4055598.9    61.8     3.40     4.00
3.16     NO                    NO
 L0005781         0   0.15232E-03  732637.6 4055599.2    61.8     3.40     4.00
3.16     NO                    NO
 L0005782         0   0.15232E-03  732646.2 4055599.5    61.8     3.40     4.00
3.16     NO                    NO
 L0005783         0   0.15232E-03  732654.8 4055599.7    61.8     3.40     4.00
3.16     NO                    NO
 L0005784         0   0.15232E-03  732663.4 4055600.0    61.8     3.40     4.00
3.16     NO                    NO
 L0005785         0   0.15232E-03  732672.0 4055600.3    61.8     3.40     4.00
3.16     NO                    NO
 L0005786         0   0.15232E-03  732680.6 4055600.6    61.7     3.40     4.00
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3.16 NO NO
L0005787 0 0.15232E-03 732689.2 4055600.9 61.7 3.40 4.00
3.16 NO NO
L0005788 0 0.15232E-03 732697.8 4055601.2 61.7 3.40 4.00
3.16 NO NO
L0005789 0 0.15232E-03 732706.4 4055601.5 61.7 3.40 4.00
3.16 NO NO
L0005790 0 0.15232E-03 732715.0 4055601.8 61.7 3.40 4.00
3.16 NO NO
L0005791 0 0.15232E-03 732723.6 4055602.1 61.7 3.40 4.00
3.16 NO NO
L0005792 0 0.15232E-03 732732.2 4055602.3 61.7 3.40 4.00
3.16 NO NO
L0005793 0 0.15232E-03 732740.8 4055602.6 61.7 3.40 4.00
3.16 NO NO
L0005794 0 0.15232E-03 732749.4 4055602.9 61.6 3.40 4.00
3.16 NO NO
L0005795 0 0.15232E-03 732758.0 4055603.2 61.6 3.40 4.00
3.16 NO NO
L0005796 0 0.15232E-03 732766.6 4055603.5 61.6 3.40 4.00
3.16 NO NO
L0005797 0 0.15232E-03 732775.2 4055603.8 61.6 3.40 4.00
3.16 NO NO
L0005798 0 0.15232E-03 732783.8 4055604.1 61.6 3.40 4.00
3.16 NO NO
L0005799 0 0.15232E-03 732792.4 4055604.4 61.6 3.40 4.00
3.16 NO NO
L0005800 0 0.15232E-03 732800.9 4055604.7 61.5 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT SCALAR VARY BY
L0005801	0	0.15232E-03	732809.5	4055605.0	61.5	3.40	4.00			

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3.16     NO                    NO
 L0005802         0   0.15232E-03  732818.1 4055605.2    61.5     3.40     4.00
3.16     NO                    NO
 L0005803         0   0.15232E-03  732826.7 4055605.5    61.5     3.40     4.00
3.16     NO                    NO
 L0005804         0   0.15232E-03  732835.3 4055605.8    61.5     3.40     4.00
3.16     NO                    NO
 L0005805         0   0.15232E-03  732843.9 4055606.1    61.5     3.40     4.00
3.16     NO                    NO
 L0005806         0   0.15232E-03  732852.5 4055606.4    61.5     3.40     4.00
3.16     NO                    NO
 L0005807         0   0.15232E-03  732861.1 4055606.7    61.5     3.40     4.00
3.16     NO                    NO
 L0005808         0   0.15232E-03  732869.7 4055607.0    61.5     3.40     4.00
3.16     NO                    NO
 L0005809         0   0.15232E-03  732878.3 4055607.3    61.4     3.40     4.00
3.16     NO                    NO
 L0005810         0   0.15232E-03  732886.9 4055607.6    61.4     3.40     4.00
3.16     NO                    NO
 L0005811         0   0.15232E-03  732895.5 4055607.9    61.4     3.40     4.00
3.16     NO                    NO
 L0005812         0   0.15232E-03  732904.1 4055608.1    61.4     3.40     4.00
3.16     NO                    NO
 L0005813         0   0.15232E-03  732912.7 4055608.4    61.4     3.40     4.00
3.16     NO                    NO
 L0005814         0   0.15232E-03  732921.3 4055608.7    61.4     3.40     4.00
3.16     NO                    NO
 L0005815         0   0.15232E-03  732929.9 4055609.0    61.4     3.40     4.00
3.16     NO                    NO
 L0005816         0   0.15232E-03  732938.5 4055609.3    61.3     3.40     4.00
3.16     NO                    NO
 L0005817         0   0.15232E-03  732947.1 4055609.6    61.3     3.40     4.00
3.16     NO                    NO
 L0005818         0   0.15232E-03  732955.7 4055609.9    61.3     3.40     4.00
3.16     NO                    NO
 L0005819         0   0.15232E-03  732964.3 4055610.2    61.3     3.40     4.00
3.16     NO                    NO
 L0005820         0   0.15232E-03  732972.8 4055610.5    61.3     3.40     4.00
3.16     NO                    NO
 L0005821         0   0.15232E-03  732981.4 4055610.8    61.3     3.40     4.00
3.16     NO                    NO
 L0005822         0   0.15232E-03  732990.0 4055611.0    61.3     3.40     4.00
3.16     NO                    NO
 L0005823         0   0.15232E-03  732998.6 4055611.3    61.2     3.40     4.00
3.16     NO                    NO
 L0005824         0   0.15232E-03  733007.2 4055611.6    61.2     3.40     4.00
3.16     NO                    NO
 L0005825         0   0.15232E-03  733015.8 4055611.9    61.2     3.40     4.00
3.16     NO                    NO
 L0005826         0   0.15232E-03  733024.4 4055612.2    61.2     3.40     4.00
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3.16   NO   NO
 L0005827   0   0.15232E-03 733033.0 4055612.5   61.2   3.40   4.00
3.16   NO   NO
 L0005828   0   0.15232E-03 733041.6 4055612.8   61.2   3.40   4.00
3.16   NO   NO
 L0005829   0   0.15232E-03 733050.2 4055613.1   61.1   3.40   4.00
3.16   NO   NO
 L0005830   0   0.15232E-03 733058.8 4055613.4   61.1   3.40   4.00
3.16   NO   NO
 L0005831   0   0.15232E-03 733067.4 4055613.6   61.1   3.40   4.00
3.16   NO   NO
 L0005832   0   0.15232E-03 733076.0 4055613.9   61.1   3.40   4.00
3.16   NO   NO
 L0005833   0   0.15232E-03 733084.6 4055614.2   61.1   3.40   4.00
3.16   NO   NO
 L0005834   0   0.15232E-03 733093.2 4055614.5   61.1   3.40   4.00
3.16   NO   NO
 L0005835   0   0.15232E-03 733101.8 4055614.8   61.0   3.40   4.00
3.16   NO   NO
 L0005836   0   0.15232E-03 733110.4 4055615.1   61.0   3.40   4.00
3.16   NO   NO
 L0005837   0   0.15232E-03 733119.0 4055615.4   61.0   3.40   4.00
3.16   NO   NO
 L0005838   0   0.15232E-03 733127.6 4055615.7   61.0   3.40   4.00
3.16   NO   NO
 L0005839   0   0.15232E-03 733136.2 4055616.0   61.0   3.40   4.00
3.16   NO   NO
 L0005840   0   0.15232E-03 733144.8 4055616.3   61.0   3.40   4.00
3.16   NO   NO

                                                    *** VOLUME SOURCE DATA ***

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

 L0005841   0   0.15232E-03 733153.3 4055616.5   60.9   3.40   4.00

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3.16     NO                    NO
 L0005842         0   0.15232E-03  733153.0 4055625.0    60.9     3.40     4.00
3.16     NO                    NO
 L0005843         0   0.15232E-03  733152.5 4055633.5    60.9     3.40     4.00
3.16     NO                    NO
 L0005844         0   0.15232E-03  733152.0 4055642.1    60.9     3.40     4.00
3.16     NO                    NO
 L0005845         0   0.15232E-03  733151.4 4055650.7    60.9     3.40     4.00
3.16     NO                    NO
 L0005846         0   0.15232E-03  733150.9 4055659.3    60.9     3.40     4.00
3.16     NO                    NO
 L0005847         0   0.15232E-03  733150.4 4055667.9    60.9     3.40     4.00
3.16     NO                    NO
 L0005848         0   0.15232E-03  733149.9 4055676.5    60.9     3.40     4.00
3.16     NO                    NO
 L0005849         0   0.15232E-03  733149.4 4055685.1    60.9     3.40     4.00
3.16     NO                    NO
 L0005850         0   0.15232E-03  733148.8 4055693.6    60.9     3.40     4.00
3.16     NO                    NO
 L0005851         0   0.15232E-03  733148.3 4055702.2    60.9     3.40     4.00
3.16     NO                    NO
 L0005852         0   0.15232E-03  733147.8 4055710.8    60.9     3.40     4.00
3.16     NO                    NO
 L0005853         0   0.15232E-03  733147.3 4055719.4    61.0     3.40     4.00
3.16     NO                    NO
 L0005854         0   0.15232E-03  733146.8 4055728.0    61.0     3.40     4.00
3.16     NO                    NO
 L0005855         0   0.15232E-03  733146.2 4055736.6    61.0     3.40     4.00
3.16     NO                    NO
 L0005856         0   0.15232E-03  733145.7 4055745.1    61.0     3.40     4.00
3.16     NO                    NO
 L0005857         0   0.15232E-03  733145.2 4055753.7    61.0     3.40     4.00
3.16     NO                    NO
 L0005858         0   0.15232E-03  733144.7 4055762.3    61.0     3.40     4.00
3.16     NO                    NO
 L0005859         0   0.15232E-03  733144.2 4055770.9    61.0     3.40     4.00
3.16     NO                    NO
 L0005860         0   0.15232E-03  733143.6 4055779.5    61.0     3.40     4.00
3.16     NO                    NO
 L0005861         0   0.15232E-03  733143.1 4055788.1    61.0     3.40     4.00
3.16     NO                    NO
 L0005862         0   0.15232E-03  733142.6 4055796.6    61.0     3.40     4.00
3.16     NO                    NO
 L0005863         0   0.15232E-03  733142.1 4055805.2    61.0     3.40     4.00
3.16     NO                    NO
 L0005864         0   0.15232E-03  733141.6 4055813.8    61.0     3.40     4.00
3.16     NO                    NO
 L0005865         0   0.15232E-03  733141.0 4055822.4    61.0     3.40     4.00
3.16     NO                    NO
 L0005866         0   0.15232E-03  733140.5 4055831.0    61.0     3.40     4.00
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3.16 NO NO
L0005867 0 0.15232E-03 733140.0 4055839.6 61.0 3.40 4.00
3.16 NO NO
L0005868 0 0.15232E-03 733139.5 4055848.2 61.0 3.40 4.00
3.16 NO NO
L0005869 0 0.15232E-03 733139.0 4055856.7 61.0 3.40 4.00
3.16 NO NO
L0005870 0 0.15232E-03 733138.4 4055865.3 61.0 3.40 4.00
3.16 NO NO
L0005871 0 0.15232E-03 733137.9 4055873.9 61.0 3.40 4.00
3.16 NO NO
L0005872 0 0.15232E-03 733137.4 4055882.5 61.0 3.40 4.00
3.16 NO NO
L0005873 0 0.15232E-03 733136.9 4055891.1 61.0 3.40 4.00
3.16 NO NO
L0005874 0 0.15232E-03 733136.4 4055899.7 61.0 3.40 4.00
3.16 NO NO
L0005875 0 0.15232E-03 733130.4 4055902.2 61.1 3.40 4.00
3.16 NO NO
L0005876 0 0.15232E-03 733121.8 4055901.9 61.1 3.40 4.00
3.16 NO NO
L0005877 0 0.15232E-03 733113.3 4055901.5 61.1 3.40 4.00
3.16 NO NO
L0005878 0 0.15232E-03 733104.7 4055901.1 61.1 3.40 4.00
3.16 NO NO
L0005879 0 0.15232E-03 733096.1 4055900.7 61.1 3.40 4.00
3.16 NO NO
L0005880 0 0.15232E-03 733087.5 4055900.3 61.1 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT SCALAR VARY
L0005881	0	0.15232E-03	733078.9	4055899.9	61.2	3.40	4.00			

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3.16     NO                    NO
 L0005882         0   0.15232E-03  733070.3 4055899.5    61.2     3.40     4.00
3.16     NO                    NO
 L0005883         0   0.15232E-03  733061.7 4055899.2    61.2     3.40     4.00
3.16     NO                    NO
 L0005884         0   0.15232E-03  733053.1 4055898.8    61.3     3.40     4.00
3.16     NO                    NO
 L0005885         0   0.15232E-03  733044.5 4055898.4    61.3     3.40     4.00
3.16     NO                    NO
 L0005886         0   0.15232E-03  733035.9 4055898.0    61.3     3.40     4.00
3.16     NO                    NO
 L0005887         0   0.15232E-03  733027.3 4055897.6    61.3     3.40     4.00
3.16     NO                    NO
 L0005888         0   0.15232E-03  733018.7 4055897.2    61.3     3.40     4.00
3.16     NO                    NO
 L0005889         0   0.15232E-03  733010.2 4055896.9    61.4     3.40     4.00
3.16     NO                    NO
 L0005890         0   0.15232E-03  733001.6 4055896.5    61.4     3.40     4.00
3.16     NO                    NO
 L0005891         0   0.15232E-03  732993.0 4055896.1    61.4     3.40     4.00
3.16     NO                    NO
 L0005892         0   0.15232E-03  732984.4 4055895.7    61.4     3.40     4.00
3.16     NO                    NO
 L0005893         0   0.15232E-03  732975.8 4055895.3    61.4     3.40     4.00
3.16     NO                    NO
 L0005894         0   0.15232E-03  732967.2 4055894.9    61.4     3.40     4.00
3.16     NO                    NO
 L0005895         0   0.15232E-03  732958.6 4055894.5    61.5     3.40     4.00
3.16     NO                    NO
 L0005896         0   0.15232E-03  732950.0 4055894.2    61.5     3.40     4.00
3.16     NO                    NO
 L0005897         0   0.15232E-03  732941.4 4055893.8    61.5     3.40     4.00
3.16     NO                    NO
 L0005898         0   0.15232E-03  732932.8 4055893.4    61.5     3.40     4.00
3.16     NO                    NO
 L0005899         0   0.15232E-03  732924.2 4055893.0    61.5     3.40     4.00
3.16     NO                    NO
 L0005900         0   0.15232E-03  732915.7 4055892.6    61.5     3.40     4.00
3.16     NO                    NO
 L0005901         0   0.15232E-03  732907.1 4055892.2    61.6     3.40     4.00
3.16     NO                    NO
 L0005902         0   0.15232E-03  732898.5 4055891.9    61.6     3.40     4.00
3.16     NO                    NO
 L0005903         0   0.15232E-03  732889.9 4055891.5    61.6     3.40     4.00
3.16     NO                    NO
 L0005904         0   0.15232E-03  732881.3 4055891.1    61.7     3.40     4.00
3.16     NO                    NO
 L0005905         0   0.15232E-03  732872.7 4055890.7    61.7     3.40     4.00
3.16     NO                    NO
 L0005906         0   0.15232E-03  732864.1 4055890.3    61.7     3.40     4.00
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3.16 NO NO
L0005907 0 0.15232E-03 732855.5 4055889.9 61.7 3.40 4.00
3.16 NO NO
L0005908 0 0.15232E-03 732846.9 4055889.5 61.7 3.40 4.00
3.16 NO NO
L0005909 0 0.15232E-03 732838.3 4055889.2 61.7 3.40 4.00
3.16 NO NO
L0005910 0 0.15232E-03 732829.7 4055888.8 61.8 3.40 4.00
3.16 NO NO
L0005911 0 0.15232E-03 732821.1 4055888.4 61.8 3.40 4.00
3.16 NO NO
L0005912 0 0.15232E-03 732812.6 4055888.0 61.8 3.40 4.00
3.16 NO NO
L0005913 0 0.15232E-03 732804.0 4055887.6 61.8 3.40 4.00
3.16 NO NO
L0005914 0 0.15232E-03 732795.4 4055887.2 61.8 3.40 4.00
3.16 NO NO
L0005915 0 0.15232E-03 732786.8 4055886.9 61.8 3.40 4.00
3.16 NO NO
L0005916 0 0.15232E-03 732778.2 4055886.5 61.8 3.40 4.00
3.16 NO NO
L0005917 0 0.15232E-03 732769.6 4055886.1 61.9 3.40 4.00
3.16 NO NO
L0005918 0 0.15232E-03 732761.0 4055885.7 61.9 3.40 4.00
3.16 NO NO
L0005919 0 0.15232E-03 732752.4 4055885.3 61.9 3.40 4.00
3.16 NO NO
L0005920 0 0.15232E-03 732743.8 4055884.9 61.9 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT SCALAR VARY BY
L0005921	0	0.15232E-03	732735.2	4055884.5	61.9	3.40	4.00			

```
3.16     NO                    NO
 L0005922         0   0.15232E-03  732726.6 4055884.2    61.9     3.40     4.00
3.16     NO                    NO
 L0005923         0   0.15232E-03  732718.1 4055883.8    61.9     3.40     4.00
3.16     NO                    NO
 L0005924         0   0.15232E-03  732709.5 4055883.4    62.0     3.40     4.00
3.16     NO                    NO
 L0005925         0   0.15232E-03  732700.9 4055883.0    62.0     3.40     4.00
3.16     NO                    NO
 L0005926         0   0.15232E-03  732692.3 4055882.6    62.0     3.40     4.00
3.16     NO                    NO
 L0005927         0   0.15232E-03  732683.7 4055882.2    62.0     3.40     4.00
3.16     NO                    NO
 L0005928         0   0.15232E-03  732675.1 4055881.9    62.0     3.40     4.00
3.16     NO                    NO
 L0005929         0   0.15232E-03  732666.5 4055881.5    62.0     3.40     4.00
3.16     NO                    NO
 L0005930         0   0.15232E-03  732657.9 4055881.1    62.0     3.40     4.00
3.16     NO                    NO
 L0005931         0   0.15232E-03  732649.3 4055880.7    62.0     3.40     4.00
3.16     NO                    NO
 L0005932         0   0.15232E-03  732640.7 4055880.3    62.0     3.40     4.00
3.16     NO                    NO
 L0005933         0   0.15232E-03  732632.1 4055879.9    62.1     3.40     4.00
3.16     NO                    NO
 L0005934         0   0.15232E-03  732623.5 4055879.5    62.1     3.40     4.00
3.16     NO                    NO
 L0005935         0   0.15232E-03  732615.0 4055879.2    62.1     3.40     4.00
3.16     NO                    NO
 L0005936         0   0.15232E-03  732606.4 4055878.8    62.1     3.40     4.00
3.16     NO                    NO
 L0005937         0   0.15232E-03  732597.8 4055878.4    62.1     3.40     4.00
3.16     NO                    NO
 L0005938         0   0.15232E-03  732589.2 4055878.0    62.1     3.40     4.00
3.16     NO                    NO
 L0005939         0   0.15232E-03  732580.6 4055877.6    62.2     3.40     4.00
3.16     NO                    NO
 L0005940         0   0.15232E-03  732572.0 4055877.2    62.2     3.40     4.00
3.16     NO                    NO
 L0005941         0   0.15232E-03  732563.4 4055876.9    62.2     3.40     4.00
3.16     NO                    NO
 L0005942         0   0.15232E-03  732555.7 4055875.7    62.2     3.40     4.00
3.16     NO                    NO
 L0005943         0   0.15232E-03  732556.6 4055867.1    62.2     3.40     4.00
3.16     NO                    NO
 L0005944         0   0.15232E-03  732557.4 4055858.6    62.2     3.40     4.00
3.16     NO                    NO
 L0005945         0   0.15232E-03  732558.3 4055850.0    62.2     3.40     4.00
3.16     NO                    NO
 L0005946         0   0.15232E-03  732559.1 4055841.5    62.2     3.40     4.00
```

3.16   NO   NO
 L0005947   0   0.15232E-03 732560.0 4055832.9   62.2   3.40   4.00
3.16   NO   NO
 L0005948   0   0.15232E-03 732560.8 4055824.4   62.2   3.40   4.00
3.16   NO   NO
 L0005949   0   0.15232E-03 732561.7 4055815.8   62.2   3.40   4.00
3.16   NO   NO
 L0005950   0   0.15232E-03 732562.6 4055807.2   62.2   3.40   4.00
3.16   NO   NO
 L0005951   0   0.15232E-03 732563.4 4055798.7   62.1   3.40   4.00
3.16   NO   NO
 L0005952   0   0.15232E-03 732564.3 4055790.1   62.1   3.40   4.00
3.16   NO   NO
 L0005953   0   0.15232E-03 732565.1 4055781.6   62.1   3.40   4.00
3.16   NO   NO
 L0005954   0   0.15232E-03 732566.0 4055773.0   62.1   3.40   4.00
3.16   NO   NO
 L0005955   0   0.15232E-03 732566.8 4055764.5   62.1   3.40   4.00
3.16   NO   NO
 L0005956   0   0.15232E-03 732567.7 4055755.9   62.1   3.40   4.00
3.16   NO   NO
 L0005957   0   0.15232E-03 732568.5 4055747.3   62.1   3.40   4.00
3.16   NO   NO
 L0005958   0   0.15232E-03 732569.4 4055738.8   62.1   3.40   4.00
3.16   NO   NO
 L0005959   0   0.15232E-03 732570.3 4055730.2   62.0   3.40   4.00
3.16   NO   NO
 L0005960   0   0.15232E-03 732571.1 4055721.7   62.0   3.40   4.00
3.16   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

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

 L0005961   0   0.15232E-03 732572.0 4055713.1   62.0   3.40   4.00

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3.16     NO                    NO
 L0005962         0   0.15232E-03  732572.8 4055704.5    62.0     3.40     4.00
3.16     NO                    NO
 L0005963         0   0.15232E-03  732580.2 4055703.5    62.0     3.40     4.00
3.16     NO                    NO
 L0005964         0   0.15232E-03  732588.8 4055703.8    62.0     3.40     4.00
3.16     NO                    NO
 L0005965         0   0.15232E-03  732597.4 4055704.2    62.0     3.40     4.00
3.16     NO                    NO
 L0005966         0   0.15232E-03  732606.0 4055704.5    62.0     3.40     4.00
3.16     NO                    NO
 L0005967         0   0.15232E-03  732614.6 4055704.8    62.0     3.40     4.00
3.16     NO                    NO
 L0005968         0   0.15232E-03  732623.2 4055705.2    61.9     3.40     4.00
3.16     NO                    NO
 L0005969         0   0.15232E-03  732631.8 4055705.5    61.9     3.40     4.00
3.16     NO                    NO
 L0005970         0   0.15232E-03  732640.3 4055705.8    61.9     3.40     4.00
3.16     NO                    NO
 L0005971         0   0.15232E-03  732648.9 4055706.2    61.9     3.40     4.00
3.16     NO                    NO
 L0005972         0   0.15232E-03  732657.5 4055706.5    61.9     3.40     4.00
3.16     NO                    NO
 L0005973         0   0.15232E-03  732666.1 4055706.9    61.9     3.40     4.00
3.16     NO                    NO
 L0005974         0   0.15232E-03  732674.7 4055707.2    61.8     3.40     4.00
3.16     NO                    NO
 L0005975         0   0.15232E-03  732683.3 4055707.5    61.8     3.40     4.00
3.16     NO                    NO
 L0005976         0   0.15232E-03  732691.9 4055707.9    61.8     3.40     4.00
3.16     NO                    NO
 L0005977         0   0.15232E-03  732700.5 4055708.2    61.8     3.40     4.00
3.16     NO                    NO
 L0005978         0   0.15232E-03  732709.1 4055708.5    61.8     3.40     4.00
3.16     NO                    NO
 L0005979         0   0.15232E-03  732717.7 4055708.9    61.8     3.40     4.00
3.16     NO                    NO
 L0005980         0   0.15232E-03  732726.3 4055709.2    61.8     3.40     4.00
3.16     NO                    NO
 L0005981         0   0.15232E-03  732734.9 4055709.6    61.8     3.40     4.00
3.16     NO                    NO
 L0005982         0   0.15232E-03  732743.5 4055709.9    61.8     3.40     4.00
3.16     NO                    NO
 L0005983         0   0.15232E-03  732752.1 4055710.2    61.7     3.40     4.00
3.16     NO                    NO
 L0005984         0   0.15232E-03  732760.7 4055710.6    61.7     3.40     4.00
3.16     NO                    NO
 L0005985         0   0.15232E-03  732769.2 4055710.9    61.7     3.40     4.00
3.16     NO                    NO
 L0005986         0   0.15232E-03  732777.8 4055711.2    61.7     3.40     4.00
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3.16 NO NO
L0005987 0 0.15232E-03 732786.4 4055711.6 61.7 3.40 4.00
3.16 NO NO
L0005988 0 0.15232E-03 732795.0 4055711.9 61.6 3.40 4.00
3.16 NO NO
L0005989 0 0.15232E-03 732803.6 4055712.2 61.6 3.40 4.00
3.16 NO NO
L0005990 0 0.15232E-03 732812.2 4055712.6 61.6 3.40 4.00
3.16 NO NO
L0005991 0 0.15232E-03 732820.8 4055712.9 61.6 3.40 4.00
3.16 NO NO
L0005992 0 0.15232E-03 732829.4 4055713.3 61.6 3.40 4.00
3.16 NO NO
L0005993 0 0.15232E-03 732838.0 4055713.6 61.6 3.40 4.00
3.16 NO NO
L0005994 0 0.15232E-03 732846.6 4055713.9 61.6 3.40 4.00
3.16 NO NO
L0005995 0 0.15232E-03 732855.2 4055714.3 61.6 3.40 4.00
3.16 NO NO
L0005996 0 0.15232E-03 732863.8 4055714.6 61.5 3.40 4.00
3.16 NO NO
L0005997 0 0.15232E-03 732872.4 4055714.9 61.5 3.40 4.00
3.16 NO NO
L0005998 0 0.15232E-03 732881.0 4055715.3 61.5 3.40 4.00
3.16 NO NO
L0005999 0 0.15232E-03 732889.6 4055715.6 61.5 3.40 4.00
3.16 NO NO
L0006000 0 0.15232E-03 732898.2 4055716.0 61.5 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT EMISSION RATE SCALAR VARY
L0006001	0	0.15232E-03	732906.7	4055716.3	61.5	3.40	4.00			

```
3.16     NO                    NO
 L0006002         0   0.15232E-03  732915.3 4055716.6    61.5     3.40     4.00
3.16     NO                    NO
 L0006003         0   0.15232E-03  732923.9 4055717.0    61.4     3.40     4.00
3.16     NO                    NO
 L0006004         0   0.15232E-03  732932.5 4055717.3    61.4     3.40     4.00
3.16     NO                    NO
 L0006005         0   0.15232E-03  732941.1 4055717.6    61.4     3.40     4.00
3.16     NO                    NO
 L0006006         0   0.15232E-03  732949.7 4055718.0    61.4     3.40     4.00
3.16     NO                    NO
 L0006007         0   0.15232E-03  732958.3 4055718.3    61.4     3.40     4.00
3.16     NO                    NO
 L0006008         0   0.15232E-03  732966.9 4055718.7    61.4     3.40     4.00
3.16     NO                    NO
 L0006009         0   0.15232E-03  732975.5 4055719.0    61.3     3.40     4.00
3.16     NO                    NO
 L0006010         0   0.15232E-03  732984.1 4055719.3    61.3     3.40     4.00
3.16     NO                    NO
 L0006011         0   0.15232E-03  732992.7 4055719.7    61.3     3.40     4.00
3.16     NO                    NO
 L0006012         0   0.15232E-03  733001.3 4055720.0    61.3     3.40     4.00
3.16     NO                    NO
 L0006013         0   0.15232E-03  733009.9 4055720.3    61.3     3.40     4.00
3.16     NO                    NO
 L0006014         0   0.15232E-03  731234.2 4055469.4    64.5     3.40     4.00
3.16     NO                    NO
 L0006015         0   0.15232E-03  731242.8 4055469.7    64.4     3.40     4.00
3.16     NO                    NO
 L0006016         0   0.15232E-03  731251.4 4055470.0    64.4     3.40     4.00
3.16     NO                    NO
 L0006017         0   0.15232E-03  731259.9 4055470.3    64.4     3.40     4.00
3.16     NO                    NO
 L0006018         0   0.15232E-03  731268.5 4055470.6    64.4     3.40     4.00
3.16     NO                    NO
 L0006019         0   0.15232E-03  731277.1 4055470.9    64.4     3.40     4.00
3.16     NO                    NO
 L0006020         0   0.15232E-03  731285.7 4055471.2    64.3     3.40     4.00
3.16     NO                    NO
 L0006021         0   0.15232E-03  731294.3 4055471.5    64.3     3.40     4.00
3.16     NO                    NO
 L0006022         0   0.15232E-03  731302.9 4055471.9    64.3     3.40     4.00
3.16     NO                    NO
 L0006023         0   0.15232E-03  731311.5 4055472.2    64.3     3.40     4.00
3.16     NO                    NO
 L0006024         0   0.15232E-03  731320.1 4055472.5    64.3     3.40     4.00
3.16     NO                    NO
 L0006025         0   0.15232E-03  731328.7 4055472.8    64.3     3.40     4.00
3.16     NO                    NO
 L0006026         0   0.15232E-03  731337.3 4055473.1    64.2     3.40     4.00
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3.16   NO   NO
 L0006027   0   0.15232E-03 731345.9 4055473.4   64.2   3.40   4.00
3.16   NO   NO
 L0006028   0   0.15232E-03 731354.5 4055473.7   64.2   3.40   4.00
3.16   NO   NO
 L0006029   0   0.15232E-03 731363.1 4055474.0   64.2   3.40   4.00
3.16   NO   NO
 L0006030   0   0.15232E-03 731371.7 4055474.3   64.2   3.40   4.00
3.16   NO   NO
 L0006031   0   0.15232E-03 731380.3 4055474.6   64.2   3.40   4.00
3.16   NO   NO
 L0006032   0   0.15232E-03 731388.9 4055474.9   64.1   3.40   4.00
3.16   NO   NO
 L0006033   0   0.15232E-03 731397.5 4055475.2   64.1   3.40   4.00
3.16   NO   NO
 L0006034   0   0.15232E-03 731406.1 4055475.5   64.1   3.40   4.00
3.16   NO   NO
 L0006035   0   0.15232E-03 731414.6 4055475.8   64.1   3.40   4.00
3.16   NO   NO
 L0006036   0   0.15232E-03 731423.2 4055476.2   64.1   3.40   4.00
3.16   NO   NO
 L0006037   0   0.15232E-03 731431.8 4055476.5   64.0   3.40   4.00
3.16   NO   NO
 L0006038   0   0.15232E-03 731440.4 4055476.8   64.0   3.40   4.00
3.16   NO   NO
 L0006039   0   0.15232E-03 731449.0 4055477.1   64.0   3.40   4.00
3.16   NO   NO
 L0006040   0   0.15232E-03 731457.6 4055477.4   64.0   3.40   4.00
3.16   NO   NO

                                                    *** VOLUME SOURCE DATA ***

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

 L0006041   0   0.15232E-03 731466.2 4055477.7   64.0   3.40   4.00

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3.16     NO                    NO
 L0006042         0   0.15232E-03  731474.8 4055478.0    64.0     3.40     4.00
3.16     NO                    NO
 L0006043         0   0.15232E-03  731483.4 4055478.3    63.9     3.40     4.00
3.16     NO                    NO
 L0006044         0   0.15232E-03  731492.0 4055478.6    63.9     3.40     4.00
3.16     NO                    NO
 L0006045         0   0.15232E-03  731500.6 4055478.9    63.9     3.40     4.00
3.16     NO                    NO
 L0006046         0   0.15232E-03  731509.2 4055479.2    63.8     3.40     4.00
3.16     NO                    NO
 L0006047         0   0.15232E-03  731517.8 4055479.5    63.8     3.40     4.00
3.16     NO                    NO
 L0006048         0   0.15232E-03  731526.4 4055479.8    63.8     3.40     4.00
3.16     NO                    NO
 L0006049         0   0.15232E-03  731535.0 4055480.1    63.8     3.40     4.00
3.16     NO                    NO
 L0006050         0   0.15232E-03  731543.6 4055480.4    63.8     3.40     4.00
3.16     NO                    NO
 L0006051         0   0.15232E-03  731552.2 4055480.8    63.8     3.40     4.00
3.16     NO                    NO
 L0006052         0   0.15232E-03  731560.8 4055481.1    63.8     3.40     4.00
3.16     NO                    NO
 L0006053         0   0.15232E-03  731569.3 4055481.4    63.8     3.40     4.00
3.16     NO                    NO
 L0006054         0   0.15232E-03  731577.9 4055481.7    63.7     3.40     4.00
3.16     NO                    NO
 L0006055         0   0.15232E-03  731586.5 4055482.0    63.7     3.40     4.00
3.16     NO                    NO
 L0006056         0   0.15232E-03  731595.1 4055482.3    63.7     3.40     4.00
3.16     NO                    NO
 L0006057         0   0.15232E-03  731603.7 4055482.6    63.7     3.40     4.00
3.16     NO                    NO
 L0006058         0   0.15232E-03  731612.3 4055482.9    63.7     3.40     4.00
3.16     NO                    NO
 L0006059         0   0.15232E-03  731620.9 4055483.2    63.6     3.40     4.00
3.16     NO                    NO
 L0006060         0   0.15232E-03  731629.5 4055483.5    63.6     3.40     4.00
3.16     NO                    NO
 L0006061         0   0.15232E-03  731638.1 4055483.8    63.6     3.40     4.00
3.16     NO                    NO
 L0006062         0   0.15232E-03  731646.7 4055484.1    63.6     3.40     4.00
3.16     NO                    NO
 L0006063         0   0.15232E-03  731655.3 4055484.4    63.6     3.40     4.00
3.16     NO                    NO
 L0006064         0   0.15232E-03  731663.9 4055484.7    63.5     3.40     4.00
3.16     NO                    NO
 L0006065         0   0.15232E-03  731672.5 4055485.1    63.5     3.40     4.00
3.16     NO                    NO
 L0006066         0   0.15232E-03  731681.1 4055485.4    63.5     3.40     4.00
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3.16 NO NO
L0006067 0 0.15232E-03 731689.7 4055485.7 63.5 3.40 4.00
3.16 NO NO
L0006068 0 0.15232E-03 731698.3 4055486.0 63.5 3.40 4.00
3.16 NO NO
L0006069 0 0.15232E-03 731706.9 4055486.3 63.4 3.40 4.00
3.16 NO NO
L0006070 0 0.15232E-03 731715.5 4055486.6 63.4 3.40 4.00
3.16 NO NO
L0006071 0 0.15232E-03 731724.0 4055486.9 63.4 3.40 4.00
3.16 NO NO
L0006072 0 0.15232E-03 731732.6 4055487.2 63.4 3.40 4.00
3.16 NO NO
L0006073 0 0.15232E-03 731741.2 4055487.5 63.4 3.40 4.00
3.16 NO NO
L0006074 0 0.15232E-03 731749.8 4055487.8 63.4 3.40 4.00
3.16 NO NO
L0006075 0 0.15232E-03 731758.4 4055488.1 63.3 3.40 4.00
3.16 NO NO
L0006076 0 0.15232E-03 731767.0 4055488.4 63.3 3.40 4.00
3.16 NO NO
L0006077 0 0.15232E-03 731775.6 4055488.7 63.3 3.40 4.00
3.16 NO NO
L0006078 0 0.15232E-03 731784.2 4055489.0 63.3 3.40 4.00
3.16 NO NO
L0006079 0 0.15232E-03 731792.8 4055489.3 63.3 3.40 4.00
3.16 NO NO
L0006080 0 0.15232E-03 731801.4 4055489.7 63.3 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY	AIRCRAFT
L0006081	0	0.15232E-03	731810.0	4055490.0	63.2	3.40	4.00				

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3.16     NO                    NO
 L0006082         0   0.15232E-03  731818.6 4055490.3    63.2     3.40     4.00
3.16     NO                    NO
 L0006083         0   0.15232E-03  731827.2 4055490.6    63.2     3.40     4.00
3.16     NO                    NO
 L0006084         0   0.15232E-03  731835.8 4055490.9    63.2     3.40     4.00
3.16     NO                    NO
 L0006085         0   0.15232E-03  731844.4 4055491.2    63.2     3.40     4.00
3.16     NO                    NO
 L0006086         0   0.15232E-03  731853.0 4055491.5    63.2     3.40     4.00
3.16     NO                    NO
 L0006087         0   0.15232E-03  731861.6 4055491.8    63.2     3.40     4.00
3.16     NO                    NO
 L0006088         0   0.15232E-03  731870.2 4055492.1    63.2     3.40     4.00
3.16     NO                    NO
 L0006089         0   0.15232E-03  731878.8 4055492.4    63.2     3.40     4.00
3.16     NO                    NO
 L0006090         0   0.15232E-03  731887.3 4055492.7    63.1     3.40     4.00
3.16     NO                    NO
 L0006091         0   0.15232E-03  731895.9 4055493.0    63.1     3.40     4.00
3.16     NO                    NO
 L0006092         0   0.15232E-03  731904.5 4055493.3    63.1     3.40     4.00
3.16     NO                    NO
 L0006093         0   0.15232E-03  731913.1 4055493.6    63.1     3.40     4.00
3.16     NO                    NO
 L0006094         0   0.15232E-03  731921.7 4055494.0    63.1     3.40     4.00
3.16     NO                    NO
 L0006095         0   0.15232E-03  731930.3 4055494.3    63.1     3.40     4.00
3.16     NO                    NO
 L0006096         0   0.15232E-03  731938.9 4055494.6    63.0     3.40     4.00
3.16     NO                    NO
 L0006097         0   0.15232E-03  731947.5 4055494.9    63.0     3.40     4.00
3.16     NO                    NO
 L0006098         0   0.15232E-03  731956.1 4055495.2    63.0     3.40     4.00
3.16     NO                    NO
 L0006099         0   0.15232E-03  731958.0 4055488.3    63.0     3.40     4.00
3.16     NO                    NO
 L0006100         0   0.15232E-03  731958.4 4055479.7    63.0     3.40     4.00
3.16     NO                    NO
 L0006101         0   0.15232E-03  731958.7 4055471.1    63.0     3.40     4.00
3.16     NO                    NO
 L0006102         0   0.15232E-03  731959.1 4055462.5    63.0     3.40     4.00
3.16     NO                    NO
 L0006103         0   0.15232E-03  731959.5 4055453.9    63.0     3.40     4.00
3.16     NO                    NO
 L0006104         0   0.15232E-03  731959.8 4055445.3    63.0     3.40     4.00
3.16     NO                    NO
 L0006105         0   0.15232E-03  731960.2 4055436.7    63.0     3.40     4.00
3.16     NO                    NO
 L0006106         0   0.15232E-03  731960.5 4055428.1    63.0     3.40     4.00
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3.16   NO   NO
 L0006107   0   0.15232E-03 731960.9 4055419.5   63.0   3.40   4.00
3.16   NO   NO
 L0006108   0   0.15232E-03 731961.2 4055410.9   62.9   3.40   4.00
3.16   NO   NO
 L0006109   0   0.15232E-03 731961.6 4055402.4   62.9   3.40   4.00
3.16   NO   NO
 L0006110   0   0.15232E-03 731962.0 4055393.8   62.9   3.40   4.00
3.16   NO   NO
 L0006111   0   0.15232E-03 731962.3 4055385.2   62.9   3.40   4.00
3.16   NO   NO
 L0006112   0   0.15232E-03 731962.7 4055376.6   62.9   3.40   4.00
3.16   NO   NO
 L0006113   0   0.15232E-03 731963.0 4055368.0   62.9   3.40   4.00
3.16   NO   NO
 L0006114   0   0.15232E-03 731963.4 4055359.4   62.9   3.40   4.00
3.16   NO   NO
 L0006115   0   0.15232E-03 731963.8 4055350.8   62.9   3.40   4.00
3.16   NO   NO
 L0006116   0   0.15232E-03 731964.1 4055342.2   62.9   3.40   4.00
3.16   NO   NO
 L0006117   0   0.15232E-03 731964.5 4055333.6   62.9   3.40   4.00
3.16   NO   NO
 L0006118   0   0.15232E-03 731964.8 4055325.0   62.9   3.40   4.00
3.16   NO   NO
 L0006119   0   0.15232E-03 731965.2 4055316.4   62.9   3.40   4.00
3.16   NO   NO
 L0006120   0   0.15232E-03 731965.5 4055307.8   62.9   3.40   4.00
3.16   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

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

 L0006121   0   0.15232E-03 731965.9 4055299.2   62.9   3.40   4.00

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3.16     NO                    NO
 L0006122         0   0.15232E-03  731966.3 4055290.6    62.9     3.40     4.00
3.16     NO                    NO
 L0006123         0   0.15232E-03  731961.2 4055286.8    62.9     3.40     4.00
3.16     NO                    NO
 L0006124         0   0.15232E-03  731952.6 4055286.1    62.9     3.40     4.00
3.16     NO                    NO
 L0006125         0   0.15232E-03  731944.1 4055285.4    62.9     3.40     4.00
3.16     NO                    NO
 L0006126         0   0.15232E-03  731935.5 4055284.7    63.0     3.40     4.00
3.16     NO                    NO
 L0006127         0   0.15232E-03  731926.9 4055284.0    63.0     3.40     4.00
3.16     NO                    NO
 L0006128         0   0.15232E-03  731918.3 4055283.3    63.0     3.40     4.00
3.16     NO                    NO
 L0006129         0   0.15232E-03  731909.8 4055282.6    63.0     3.40     4.00
3.16     NO                    NO
 L0006130         0   0.15232E-03  731901.2 4055281.8    63.0     3.40     4.00
3.16     NO                    NO
 L0006131         0   0.15232E-03  731892.6 4055281.1    63.0     3.40     4.00
3.16     NO                    NO
 L0006132         0   0.15232E-03  731884.1 4055280.4    63.0     3.40     4.00
3.16     NO                    NO
 L0006133         0   0.15232E-03  731875.5 4055279.7    63.0     3.40     4.00
3.16     NO                    NO
 L0006134         0   0.15232E-03  731866.9 4055279.0    63.0     3.40     4.00
3.16     NO                    NO
 L0006135         0   0.15232E-03  731862.5 4055274.5    63.1     3.40     4.00
3.16     NO                    NO
 L0006136         0   0.15232E-03  731862.7 4055265.9    63.1     3.40     4.00
3.16     NO                    NO
 L0006137         0   0.15232E-03  731862.8 4055257.3    63.0     3.40     4.00
3.16     NO                    NO
 L0006138         0   0.15232E-03  731863.0 4055248.7    63.0     3.40     4.00
3.16     NO                    NO
 L0006139         0   0.15232E-03  731863.2 4055240.1    63.0     3.40     4.00
3.16     NO                    NO
 L0006140         0   0.15232E-03  731863.3 4055231.5    63.0     3.40     4.00
3.16     NO                    NO
 L0006141         0   0.15232E-03  731863.5 4055222.9    63.0     3.40     4.00
3.16     NO                    NO
 L0006142         0   0.15232E-03  731863.7 4055214.3    63.0     3.40     4.00
3.16     NO                    NO
 L0006143         0   0.15232E-03  731863.8 4055205.7    63.0     3.40     4.00
3.16     NO                    NO
 L0006144         0   0.15232E-03  731864.0 4055197.1    63.0     3.40     4.00
3.16     NO                    NO
 L0006145         0   0.15232E-03  731864.1 4055188.5    63.0     3.40     4.00
3.16     NO                    NO
 L0006146         0   0.15232E-03  731864.3 4055179.9    63.0     3.40     4.00
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3.16   NO   NO
 L0006147   0   0.15232E-03 731864.5 4055171.3   63.0   3.40   4.00
3.16   NO   NO
 L0006148   0   0.15232E-03 731864.6 4055162.8   63.0   3.40   4.00
3.16   NO   NO
 L0006149   0   0.15232E-03 731864.8 4055154.2   63.0   3.40   4.00
3.16   NO   NO
 L0006150   0   0.15232E-03 731865.0 4055145.6   63.0   3.40   4.00
3.16   NO   NO
 L0006151   0   0.15232E-03 731865.1 4055137.0   63.0   3.40   4.00
3.16   NO   NO
 L0006152   0   0.15232E-03 731865.3 4055128.4   63.0   3.40   4.00
3.16   NO   NO
 L0006153   0   0.15232E-03 731865.5 4055119.8   63.0   3.40   4.00
3.16   NO   NO
 L0006154   0   0.15232E-03 731865.6 4055111.2   63.0   3.40   4.00
3.16   NO   NO
 L0006155   0   0.15232E-03 731865.8 4055102.6   63.0   3.40   4.00
3.16   NO   NO
 L0006156   0   0.15232E-03 731866.0 4055094.0   63.0   3.40   4.00
3.16   NO   NO
 L0006157   0   0.15232E-03 731866.1 4055085.4   63.0   3.40   4.00
3.16   NO   NO
 L0006158   0   0.15232E-03 731866.3 4055076.8   63.0   3.40   4.00
3.16   NO   NO
 L0006159   0   0.15232E-03 731866.5 4055068.2   63.0   3.40   4.00
3.16   NO   NO
 L0006160   0   0.15232E-03 731866.6 4055059.6   63.0   3.40   4.00
3.16   NO   NO

                                                    *** VOLUME SOURCE DATA ***

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

 L0006161   0   0.15232E-03 731866.8 4055051.0   63.0   3.40   4.00

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3.16     NO                    NO
 L0006162         0   0.15232E-03  731867.0 4055042.4    63.0     3.40     4.00
3.16     NO                    NO
 L0006163         0   0.15232E-03  731867.1 4055033.8    63.0     3.40     4.00
3.16     NO                    NO
 L0006164         0   0.15232E-03  731867.3 4055025.2    63.0     3.40     4.00
3.16     NO                    NO
 L0006165         0   0.15232E-03  731867.5 4055016.6    63.0     3.40     4.00
3.16     NO                    NO
 L0006166         0   0.15232E-03  731867.6 4055008.0    63.0     3.40     4.00
3.16     NO                    NO
 L0006167         0   0.15232E-03  731867.8 4054999.4    63.0     3.40     4.00
3.16     NO                    NO
 L0006168         0   0.15232E-03  731868.0 4054990.8    63.0     3.40     4.00
3.16     NO                    NO
 L0006169         0   0.15232E-03  731868.1 4054982.2    63.0     3.40     4.00
3.16     NO                    NO
 L0006170         0   0.15232E-03  731868.3 4054973.6    63.0     3.40     4.00
3.16     NO                    NO
 L0006171         0   0.15232E-03  731868.4 4054965.0    63.0     3.40     4.00
3.16     NO                    NO
 L0006172         0   0.15232E-03  731868.6 4054956.4    63.0     3.40     4.00
3.16     NO                    NO
 L0006173         0   0.15232E-03  731868.8 4054947.8    63.0     3.40     4.00
3.16     NO                    NO
 L0006174         0   0.15232E-03  731868.9 4054939.2    63.0     3.40     4.00
3.16     NO                    NO
 L0006175         0   0.15232E-03  731869.1 4054930.6    63.0     3.40     4.00
3.16     NO                    NO
 L0006176         0   0.15232E-03  731869.3 4054922.0    63.0     3.40     4.00
3.16     NO                    NO
 L0006177         0   0.15232E-03  731869.4 4054913.4    62.9     3.40     4.00
3.16     NO                    NO
 L0006178         0   0.15232E-03  731869.6 4054904.8    62.9     3.40     4.00
3.16     NO                    NO
 L0006179         0   0.15232E-03  731869.8 4054896.2    62.9     3.40     4.00
3.16     NO                    NO
 L0006180         0   0.15232E-03  731869.9 4054887.6    62.9     3.40     4.00
3.16     NO                    NO
 L0006181         0   0.15232E-03  731870.1 4054879.0    62.9     3.40     4.00
3.16     NO                    NO
 L0006182         0   0.15232E-03  731870.3 4054870.4    62.9     3.40     4.00
3.16     NO                    NO
 L0006183         0   0.15232E-03  731870.4 4054861.8    62.9     3.40     4.00
3.16     NO                    NO
 L0006184         0   0.15232E-03  731870.6 4054853.2    62.9     3.40     4.00
3.16     NO                    NO
 L0006185         0   0.15232E-03  731870.8 4054844.6    62.9     3.40     4.00
3.16     NO                    NO
 L0006186         0   0.15232E-03  731870.9 4054836.0    62.9     3.40     4.00
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3.16     NO                     NO
 L0006187         0   0.15232E-03  731870.5 4054828.0    62.9     3.40     4.00
3.16     NO                     NO
 L0006188         0   0.15232E-03  731861.9 4054827.9    63.0     3.40     4.00
3.16     NO                     NO
 L0006189         0   0.15232E-03  731853.3 4054827.8    63.0     3.40     4.00
3.16     NO                     NO
 L0006190         0   0.15232E-03  731844.7 4054827.6    63.0     3.40     4.00
3.16     NO                     NO
 L0006191         0   0.15232E-03  731836.1 4054827.5    63.0     3.40     4.00
3.16     NO                     NO
 L0006192         0   0.15232E-03  731827.5 4054827.4    63.0     3.40     4.00
3.16     NO                     NO
 L0006193         0   0.15232E-03  731818.9 4054827.3    63.0     3.40     4.00
3.16     NO                     NO
 L0006194         0   0.15232E-03  731810.3 4054827.1    63.0     3.40     4.00
3.16     NO                     NO
 L0006195         0   0.15232E-03  731801.7 4054827.0    63.0     3.40     4.00
3.16     NO                     NO
 L0006196         0   0.15232E-03  731793.1 4054826.9    63.1     3.40     4.00
3.16     NO                     NO
 L0006197         0   0.15232E-03  731784.5 4054826.8    63.1     3.40     4.00
3.16     NO                     NO
 L0006198         0   0.15232E-03  731775.9 4054826.6    63.1     3.40     4.00
3.16     NO                     NO
 L0006199         0   0.15232E-03  731767.3 4054826.5    63.1     3.40     4.00
3.16     NO                     NO
 L0006200         0   0.15232E-03  731758.7 4054826.4    63.1     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0006201         0   0.15232E-03  731750.1 4054826.3    63.1     3.40     4.00
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3.16     NO                    NO
 L0006202         0   0.15232E-03  731741.5 4054826.1    63.1     3.40     4.00
3.16     NO                    NO
 L0006203         0   0.15232E-03  731732.9 4054826.0    63.1     3.40     4.00
3.16     NO                    NO
 L0006204         0   0.15232E-03  731724.3 4054825.9    63.1     3.40     4.00
3.16     NO                    NO
 L0006205         0   0.15232E-03  731715.7 4054825.8    63.1     3.40     4.00
3.16     NO                    NO
 L0006206         0   0.15232E-03  731707.1 4054825.6    63.1     3.40     4.00
3.16     NO                    NO
 L0006207         0   0.15232E-03  731698.5 4054825.5    63.2     3.40     4.00
3.16     NO                    NO
 L0006208         0   0.15232E-03  731689.9 4054825.4    63.2     3.40     4.00
3.16     NO                    NO
 L0006209         0   0.15232E-03  731681.3 4054825.3    63.2     3.40     4.00
3.16     NO                    NO
 L0006210         0   0.15232E-03  731672.7 4054825.2    63.2     3.40     4.00
3.16     NO                    NO
 L0006211         0   0.15232E-03  731664.1 4054825.0    63.2     3.40     4.00
3.16     NO                    NO
 L0006212         0   0.15232E-03  731655.5 4054824.9    63.2     3.40     4.00
3.16     NO                    NO
 L0006213         0   0.15232E-03  731646.9 4054824.8    63.2     3.40     4.00
3.16     NO                    NO
 L0006214         0   0.15232E-03  731638.3 4054824.7    63.2     3.40     4.00
3.16     NO                    NO
 L0006215         0   0.15232E-03  731629.7 4054824.5    63.2     3.40     4.00
3.16     NO                    NO
 L0006216         0   0.15232E-03  731621.1 4054824.4    63.3     3.40     4.00
3.16     NO                    NO
 L0006217         0   0.15232E-03  731612.5 4054824.3    63.3     3.40     4.00
3.16     NO                    NO
 L0006218         0   0.15232E-03  731603.9 4054824.2    63.3     3.40     4.00
3.16     NO                    NO
 L0006219         0   0.15232E-03  731595.3 4054824.0    63.3     3.40     4.00
3.16     NO                    NO
 L0006220         0   0.15232E-03  731586.7 4054823.9    63.3     3.40     4.00
3.16     NO                    NO
 L0006221         0   0.15232E-03  731578.1 4054823.8    63.3     3.40     4.00
3.16     NO                    NO
 L0006222         0   0.15232E-03  731569.5 4054823.7    63.4     3.40     4.00
3.16     NO                    NO
 L0006223         0   0.15232E-03  731560.9 4054823.5    63.4     3.40     4.00
3.16     NO                    NO
 L0006224         0   0.15232E-03  731552.3 4054823.4    63.4     3.40     4.00
3.16     NO                    NO
 L0006225         0   0.15232E-03  731543.7 4054823.3    63.4     3.40     4.00
3.16     NO                    NO
 L0006226         0   0.15232E-03  731535.1 4054823.2    63.4     3.40     4.00
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3.16     NO                     NO
 L0006227         0   0.15232E-03  731526.5 4054823.0    63.5     3.40     4.00
3.16     NO                     NO
 L0006228         0   0.15232E-03  731517.9 4054822.9    63.5     3.40     4.00
3.16     NO                     NO
 L0006229         0   0.15232E-03  731509.3 4054822.8    63.5     3.40     4.00
3.16     NO                     NO
 L0006230         0   0.15232E-03  731500.7 4054822.7    63.5     3.40     4.00
3.16     NO                     NO
 L0006231         0   0.15232E-03  731492.1 4054822.5    63.5     3.40     4.00
3.16     NO                     NO
 L0006232         0   0.15232E-03  731483.5 4054822.4    63.5     3.40     4.00
3.16     NO                     NO
 L0006233         0   0.15232E-03  731474.9 4054822.3    63.5     3.40     4.00
3.16     NO                     NO
 L0006234         0   0.15232E-03  731466.3 4054822.2    63.5     3.40     4.00
3.16     NO                     NO
 L0006235         0   0.15232E-03  731457.7 4054822.0    63.6     3.40     4.00
3.16     NO                     NO
 L0006236         0   0.15232E-03  731449.1 4054821.9    63.6     3.40     4.00
3.16     NO                     NO
 L0006237         0   0.15232E-03  731440.5 4054821.8    63.6     3.40     4.00
3.16     NO                     NO
 L0006238         0   0.15232E-03  731431.9 4054821.7    63.7     3.40     4.00
3.16     NO                     NO
 L0006239         0   0.15232E-03  731423.3 4054821.5    63.7     3.40     4.00
3.16     NO                     NO
 L0006240         0   0.15232E-03  731414.7 4054821.4    63.8     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0006241         0   0.15232E-03  731406.1 4054821.3    63.8     3.40     4.00
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3.16     NO                    NO
 L0006242         0   0.15232E-03  731397.5 4054821.2    63.8     3.40     4.00
3.16     NO                    NO
 L0006243         0   0.15232E-03  731388.9 4054821.0    63.9     3.40     4.00
3.16     NO                    NO
 L0006244         0   0.15232E-03  731380.3 4054820.9    64.0     3.40     4.00
3.16     NO                    NO
 L0006245         0   0.15232E-03  731371.7 4054820.8    64.0     3.40     4.00
3.16     NO                    NO
 L0006246         0   0.15232E-03  731363.1 4054820.7    64.1     3.40     4.00
3.16     NO                    NO
 L0006247         0   0.15232E-03  731354.5 4054820.5    64.1     3.40     4.00
3.16     NO                    NO
 L0006248         0   0.15232E-03  731345.9 4054820.4    64.1     3.40     4.00
3.16     NO                    NO
 L0006249         0   0.15232E-03  731337.3 4054820.3    64.2     3.40     4.00
3.16     NO                    NO
 L0006250         0   0.15232E-03  731328.7 4054820.2    64.2     3.40     4.00
3.16     NO                    NO
 L0006251         0   0.15232E-03  731320.1 4054820.0    64.3     3.40     4.00
3.16     NO                    NO
 L0006252         0   0.15232E-03  731311.5 4054819.9    64.3     3.40     4.00
3.16     NO                    NO
 L0006253         0   0.15232E-03  731302.9 4054819.8    64.3     3.40     4.00
3.16     NO                    NO
 L0006254         0   0.15232E-03  731294.3 4054819.7    64.4     3.40     4.00
3.16     NO                    NO
 L0006255         0   0.15232E-03  731285.7 4054819.5    64.4     3.40     4.00
3.16     NO                    NO
 L0006256         0   0.15232E-03  731277.1 4054819.4    64.5     3.40     4.00
3.16     NO                    NO
 L0006257         0   0.15232E-03  731272.9 4054824.0    64.5     3.40     4.00
3.16     NO                    NO
 L0006258         0   0.15232E-03  731272.3 4054832.6    64.5     3.40     4.00
3.16     NO                    NO
 L0006259         0   0.15232E-03  731271.8 4054841.2    64.5     3.40     4.00
3.16     NO                    NO
 L0006260         0   0.15232E-03  731271.2 4054849.8    64.5     3.40     4.00
3.16     NO                    NO
 L0006261         0   0.15232E-03  731270.6 4054858.3    64.4     3.40     4.00
3.16     NO                    NO
 L0006262         0   0.15232E-03  731270.1 4054866.9    64.4     3.40     4.00
3.16     NO                    NO
 L0006263         0   0.15232E-03  731269.5 4054875.5    64.4     3.40     4.00
3.16     NO                    NO
 L0006264         0   0.15232E-03  731268.9 4054884.1    64.4     3.40     4.00
3.16     NO                    NO
 L0006265         0   0.15232E-03  731268.4 4054892.7    64.4     3.40     4.00
3.16     NO                    NO
 L0006266         0   0.15232E-03  731267.8 4054901.2    64.4     3.40     4.00
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3.16   NO   NO
 L0006267   0   0.15232E-03 731267.3 4054909.8   64.4   3.40   4.00
3.16   NO   NO
 L0006268   0   0.15232E-03 731266.7 4054918.4   64.4   3.40   4.00
3.16   NO   NO
 L0006269   0   0.15232E-03 731266.1 4054927.0   64.4   3.40   4.00
3.16   NO   NO
 L0006270   0   0.15232E-03 731265.6 4054935.6   64.4   3.40   4.00
3.16   NO   NO
 L0006271   0   0.15232E-03 731265.0 4054944.2   64.4   3.40   4.00
3.16   NO   NO
 L0006272   0   0.15232E-03 731264.4 4054952.7   64.4   3.40   4.00
3.16   NO   NO
 L0006273   0   0.15232E-03 731263.9 4054961.3   64.4   3.40   4.00
3.16   NO   NO
 L0006274   0   0.15232E-03 731263.3 4054969.9   64.3   3.40   4.00
3.16   NO   NO
 L0006275   0   0.15232E-03 731262.8 4054978.5   64.3   3.40   4.00
3.16   NO   NO
 L0006276   0   0.15232E-03 731262.2 4054987.1   64.3   3.40   4.00
3.16   NO   NO
 L0006277   0   0.15232E-03 731261.6 4054995.6   64.2   3.40   4.00
3.16   NO   NO
 L0006278   0   0.15232E-03 731261.1 4055004.2   64.2   3.40   4.00
3.16   NO   NO
 L0006279   0   0.15232E-03 731260.5 4055012.8   64.2   3.40   4.00
3.16   NO   NO
 L0006280   0   0.15232E-03 731259.9 4055021.4   64.2   3.40   4.00
3.16   NO   NO

                                                    *** VOLUME SOURCE DATA ***

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

 L0006281   0   0.15232E-03 731259.4 4055030.0   64.2   3.40   4.00

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3.16     NO                    NO
 L0006282         0   0.15232E-03  731258.8 4055038.5    64.2     3.40     4.00
3.16     NO                    NO
 L0006283         0   0.15232E-03  731258.3 4055047.1    64.2     3.40     4.00
3.16     NO                    NO
 L0006284         0   0.15232E-03  731257.7 4055055.7    64.2     3.40     4.00
3.16     NO                    NO
 L0006285         0   0.15232E-03  731257.1 4055064.3    64.2     3.40     4.00
3.16     NO                    NO
 L0006286         0   0.15232E-03  731256.6 4055072.9    64.2     3.40     4.00
3.16     NO                    NO
 L0006287         0   0.15232E-03  731256.0 4055081.5    64.2     3.40     4.00
3.16     NO                    NO
 L0006288         0   0.15232E-03  731255.4 4055090.0    64.2     3.40     4.00
3.16     NO                    NO
 L0006289         0   0.15232E-03  731254.9 4055098.6    64.1     3.40     4.00
3.16     NO                    NO
 L0006290         0   0.15232E-03  731254.3 4055107.2    64.1     3.40     4.00
3.16     NO                    NO
 L0006291         0   0.15232E-03  731253.8 4055115.8    64.1     3.40     4.00
3.16     NO                    NO
 L0006292         0   0.15232E-03  731253.2 4055124.4    64.1     3.40     4.00
3.16     NO                    NO
 L0006293         0   0.15232E-03  731252.6 4055132.9    64.1     3.40     4.00
3.16     NO                    NO
 L0006294         0   0.15232E-03  731252.1 4055141.5    64.1     3.40     4.00
3.16     NO                    NO
 L0006295         0   0.15232E-03  731251.5 4055150.1    64.1     3.40     4.00
3.16     NO                    NO
 L0006296         0   0.15232E-03  731250.9 4055158.7    64.1     3.40     4.00
3.16     NO                    NO
 L0006297         0   0.15232E-03  731250.4 4055167.3    64.1     3.40     4.00
3.16     NO                    NO
 L0006298         0   0.15232E-03  731249.8 4055175.9    64.2     3.40     4.00
3.16     NO                    NO
 L0006299         0   0.15232E-03  731249.2 4055184.4    64.2     3.40     4.00
3.16     NO                    NO
 L0006300         0   0.15232E-03  731248.7 4055193.0    64.2     3.40     4.00
3.16     NO                    NO
 L0006301         0   0.15232E-03  731248.1 4055201.6    64.2     3.40     4.00
3.16     NO                    NO
 L0006302         0   0.15232E-03  731247.6 4055210.2    64.2     3.40     4.00
3.16     NO                    NO
 L0006303         0   0.15232E-03  731247.0 4055218.8    64.2     3.40     4.00
3.16     NO                    NO
 L0006304         0   0.15232E-03  731246.4 4055227.3    64.2     3.40     4.00
3.16     NO                    NO
 L0006305         0   0.15232E-03  731245.9 4055235.9    64.2     3.40     4.00
3.16     NO                    NO
 L0006306         0   0.15232E-03  731245.3 4055244.5    64.2     3.40     4.00
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3.16 NO NO
L0006307 0 0.15232E-03 731244.7 4055253.1 64.2 3.40 4.00
3.16 NO NO
L0006308 0 0.15232E-03 731244.2 4055261.7 64.3 3.40 4.00
3.16 NO NO
L0006309 0 0.15232E-03 731243.6 4055270.3 64.3 3.40 4.00
3.16 NO NO
L0006310 0 0.15232E-03 731243.1 4055278.8 64.3 3.40 4.00
3.16 NO NO
L0006311 0 0.15232E-03 731242.5 4055287.4 64.3 3.40 4.00
3.16 NO NO
L0006312 0 0.15232E-03 731241.9 4055296.0 64.3 3.40 4.00
3.16 NO NO
L0006313 0 0.15232E-03 731241.4 4055304.6 64.3 3.40 4.00
3.16 NO NO
L0006314 0 0.15232E-03 731240.8 4055313.2 64.3 3.40 4.00
3.16 NO NO
L0006315 0 0.15232E-03 731240.2 4055321.7 64.3 3.40 4.00
3.16 NO NO
L0006316 0 0.15232E-03 731239.7 4055330.3 64.3 3.40 4.00
3.16 NO NO
L0006317 0 0.15232E-03 731239.1 4055338.9 64.3 3.40 4.00
3.16 NO NO
L0006318 0 0.15232E-03 731238.6 4055347.5 64.3 3.40 4.00
3.16 NO NO
L0006319 0 0.15232E-03 731246.7 4055348.4 64.3 3.40 4.00
3.16 NO NO
L0006320 0 0.15232E-03 731255.3 4055348.8 64.3 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT EMISSION RATE SCALAR VARY
L0006321	0	0.15232E-03	731263.8	4055349.3	64.2	3.40	4.00			

```
3.16     NO                    NO
 L0006322         0   0.15232E-03  731272.4 4055349.7    64.2     3.40     4.00
3.16     NO                    NO
 L0006323         0   0.15232E-03  731281.0 4055350.2    64.2     3.40     4.00
3.16     NO                    NO
 L0006324         0   0.15232E-03  731289.6 4055350.6    64.2     3.40     4.00
3.16     NO                    NO
 L0006325         0   0.15232E-03  731298.2 4055351.1    64.2     3.40     4.00
3.16     NO                    NO
 L0006326         0   0.15232E-03  731306.8 4055351.5    64.2     3.40     4.00
3.16     NO                    NO
 L0006327         0   0.15232E-03  731315.4 4055352.0    64.2     3.40     4.00
3.16     NO                    NO
 L0006328         0   0.15232E-03  731324.0 4055352.4    64.2     3.40     4.00
3.16     NO                    NO
 L0006329         0   0.15232E-03  731332.6 4055352.9    64.1     3.40     4.00
3.16     NO                    NO
 L0006330         0   0.15232E-03  731341.1 4055353.3    64.1     3.40     4.00
3.16     NO                    NO
 L0006331         0   0.15232E-03  731349.7 4055353.8    64.1     3.40     4.00
3.16     NO                    NO
 L0006332         0   0.15232E-03  731358.3 4055354.2    64.1     3.40     4.00
3.16     NO                    NO
 L0006333         0   0.15232E-03  731366.9 4055354.7    64.0     3.40     4.00
3.16     NO                    NO
 L0006334         0   0.15232E-03  731375.5 4055355.1    64.0     3.40     4.00
3.16     NO                    NO
 L0006335         0   0.15232E-03  731384.1 4055355.6    64.0     3.40     4.00
3.16     NO                    NO
 L0006336         0   0.15232E-03  731392.7 4055356.0    64.0     3.40     4.00
3.16     NO                    NO
 L0006337         0   0.15232E-03  731401.3 4055356.5    64.0     3.40     4.00
3.16     NO                    NO
 L0006338         0   0.15232E-03  731409.8 4055356.9    64.0     3.40     4.00
3.16     NO                    NO
 L0006339         0   0.15232E-03  731418.4 4055357.4    63.9     3.40     4.00
3.16     NO                    NO
 L0006340         0   0.15232E-03  731427.0 4055357.9    63.9     3.40     4.00
3.16     NO                    NO
 L0006341         0   0.15232E-03  731435.6 4055358.3    63.9     3.40     4.00
3.16     NO                    NO
 L0006342         0   0.15232E-03  731444.2 4055358.8    63.9     3.40     4.00
3.16     NO                    NO
 L0006343         0   0.15232E-03  731452.8 4055359.2    63.9     3.40     4.00
3.16     NO                    NO
 L0006344         0   0.15232E-03  731461.4 4055359.7    63.9     3.40     4.00
3.16     NO                    NO
 L0006345         0   0.15232E-03  731470.0 4055360.1    63.9     3.40     4.00
3.16     NO                    NO
 L0006346         0   0.15232E-03  731478.5 4055360.6    63.9     3.40     4.00
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3.16 NO NO
L0006347 0 0.15232E-03 731487.1 4055361.0 63.8 3.40 4.00
3.16 NO NO
L0006348 0 0.15232E-03 731495.7 4055361.5 63.8 3.40 4.00
3.16 NO NO
L0006349 0 0.15232E-03 731504.3 4055361.9 63.8 3.40 4.00
3.16 NO NO
L0006350 0 0.15232E-03 731512.9 4055362.4 63.8 3.40 4.00
3.16 NO NO
L0006351 0 0.15232E-03 731521.5 4055362.8 63.8 3.40 4.00
3.16 NO NO
L0006352 0 0.15232E-03 731530.1 4055363.3 63.8 3.40 4.00
3.16 NO NO
L0006353 0 0.15232E-03 731538.7 4055363.7 63.7 3.40 4.00
3.16 NO NO
L0006354 0 0.15232E-03 731547.3 4055364.2 63.7 3.40 4.00
3.16 NO NO
L0006355 0 0.15232E-03 731555.8 4055364.6 63.7 3.40 4.00
3.16 NO NO
L0006356 0 0.15232E-03 731564.4 4055365.1 63.7 3.40 4.00
3.16 NO NO
L0006357 0 0.15232E-03 731573.0 4055365.5 63.6 3.40 4.00
3.16 NO NO
L0006358 0 0.15232E-03 731581.6 4055366.0 63.6 3.40 4.00
3.16 NO NO
L0006359 0 0.15232E-03 731590.2 4055366.4 63.6 3.40 4.00
3.16 NO NO
L0006360 0 0.15232E-03 731598.8 4055366.9 63.6 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT EMISSION RATE SCALAR VARY
L0006361	0	0.15232E-03	731607.4	4055367.3	63.6	3.40	4.00			

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3.16     NO                    NO
 L0006362         0   0.15232E-03  731616.0 4055367.8    63.6     3.40     4.00
3.16     NO                    NO
 L0006363         0   0.15232E-03  731624.5 4055368.2    63.6     3.40     4.00
3.16     NO                    NO
 L0006364         0   0.15232E-03  731633.1 4055368.7    63.5     3.40     4.00
3.16     NO                    NO
 L0006365         0   0.15232E-03  731641.7 4055369.2    63.5     3.40     4.00
3.16     NO                    NO
 L0006366         0   0.15232E-03  731650.3 4055369.6    63.5     3.40     4.00
3.16     NO                    NO
 L0006367         0   0.15232E-03  731658.9 4055370.1    63.5     3.40     4.00
3.16     NO                    NO
 L0006368         0   0.15232E-03  731667.5 4055370.5    63.4     3.40     4.00
3.16     NO                    NO
 L0006369         0   0.15232E-03  731676.1 4055371.0    63.4     3.40     4.00
3.16     NO                    NO
 L0006370         0   0.15232E-03  731684.7 4055371.4    63.4     3.40     4.00
3.16     NO                    NO
 L0006371         0   0.15232E-03  731693.3 4055371.9    63.4     3.40     4.00
3.16     NO                    NO
 L0006372         0   0.15232E-03  731701.8 4055372.3    63.4     3.40     4.00
3.16     NO                    NO
 L0006373         0   0.15232E-03  731710.4 4055372.8    63.4     3.40     4.00
3.16     NO                    NO
 L0006374         0   0.15232E-03  731719.0 4055373.2    63.4     3.40     4.00
3.16     NO                    NO
 L0006375         0   0.15232E-03  731727.6 4055373.7    63.3     3.40     4.00
3.16     NO                    NO
 L0006376         0   0.15232E-03  731732.7 4055370.2    63.3     3.40     4.00
3.16     NO                    NO
 L0006377         0   0.15232E-03  731733.2 4055361.6    63.3     3.40     4.00
3.16     NO                    NO
 L0006378         0   0.15232E-03  731733.7 4055353.0    63.3     3.40     4.00
3.16     NO                    NO
 L0006379         0   0.15232E-03  731734.3 4055344.4    63.3     3.40     4.00
3.16     NO                    NO
 L0006380         0   0.15232E-03  731734.8 4055335.8    63.3     3.40     4.00
3.16     NO                    NO
 L0006381         0   0.15232E-03  731735.4 4055327.3    63.3     3.40     4.00
3.16     NO                    NO
 L0006382         0   0.15232E-03  731735.9 4055318.7    63.3     3.40     4.00
3.16     NO                    NO
 L0006383         0   0.15232E-03  731736.4 4055310.1    63.3     3.40     4.00
3.16     NO                    NO
 L0006384         0   0.15232E-03  731737.0 4055301.5    63.2     3.40     4.00
3.16     NO                    NO
 L0006385         0   0.15232E-03  731737.5 4055292.9    63.2     3.40     4.00
3.16     NO                    NO
 L0006386         0   0.15232E-03  731738.0 4055284.3    63.2     3.40     4.00
```

3.16 NO NO
L0006387 0 0.15232E-03 731738.6 4055275.8 63.2 3.40 4.00
3.16 NO NO
L0006388 0 0.15232E-03 731739.1 4055267.2 63.2 3.40 4.00
3.16 NO NO
L0006389 0 0.15232E-03 731739.6 4055258.6 63.2 3.40 4.00
3.16 NO NO
L0006390 0 0.15232E-03 731740.2 4055250.0 63.2 3.40 4.00
3.16 NO NO
L0006391 0 0.15232E-03 731740.7 4055241.4 63.2 3.40 4.00
3.16 NO NO
L0006392 0 0.15232E-03 731741.3 4055232.8 63.2 3.40 4.00
3.16 NO NO
L0006393 0 0.15232E-03 731741.8 4055224.3 63.2 3.40 4.00
3.16 NO NO
L0006394 0 0.15232E-03 731742.3 4055215.7 63.2 3.40 4.00
3.16 NO NO
L0006395 0 0.15232E-03 731742.9 4055207.1 63.2 3.40 4.00
3.16 NO NO
L0006396 0 0.15232E-03 731743.4 4055198.5 63.2 3.40 4.00
3.16 NO NO
L0006397 0 0.15232E-03 731743.9 4055189.9 63.2 3.40 4.00
3.16 NO NO
L0006398 0 0.15232E-03 731744.5 4055181.3 63.2 3.40 4.00
3.16 NO NO
L0006399 0 0.15232E-03 731745.0 4055172.8 63.2 3.40 4.00
3.16 NO NO
L0006400 0 0.15232E-03 731745.5 4055164.2 63.2 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY	AIRCRAFT
L0006401	0	0.15232E-03	731746.1	4055155.6	63.2	3.40	4.00				

```
3.16     NO                    NO
 L0006402         0   0.15232E-03  731746.6 4055147.0    63.2     3.40     4.00
3.16     NO                    NO
 L0006403         0   0.15232E-03  731747.2 4055138.4    63.2     3.40     4.00
3.16     NO                    NO
 L0006404         0   0.15232E-03  731747.7 4055129.8    63.2     3.40     4.00
3.16     NO                    NO
 L0006405         0   0.15232E-03  731748.2 4055121.3    63.2     3.40     4.00
3.16     NO                    NO
 L0006406         0   0.15232E-03  731748.8 4055112.7    63.2     3.40     4.00
3.16     NO                    NO
 L0006407         0   0.15232E-03  731749.3 4055104.1    63.2     3.40     4.00
3.16     NO                    NO
 L0006408         0   0.15232E-03  731749.8 4055095.5    63.2     3.40     4.00
3.16     NO                    NO
 L0006409         0   0.15232E-03  731750.4 4055086.9    63.1     3.40     4.00
3.16     NO                    NO
 L0006410         0   0.15232E-03  731750.9 4055078.3    63.1     3.40     4.00
3.16     NO                    NO
 L0006411         0   0.15232E-03  731751.5 4055069.8    63.1     3.40     4.00
3.16     NO                    NO
 L0006412         0   0.15232E-03  731752.0 4055061.2    63.1     3.40     4.00
3.16     NO                    NO
 L0006413         0   0.15232E-03  731752.5 4055052.6    63.1     3.40     4.00
3.16     NO                    NO
 L0006414         0   0.15232E-03  731753.1 4055044.0    63.1     3.40     4.00
3.16     NO                    NO
 L0006415         0   0.15232E-03  731753.6 4055035.4    63.1     3.40     4.00
3.16     NO                    NO
 L0006416         0   0.15232E-03  731754.1 4055026.8    63.1     3.40     4.00
3.16     NO                    NO
 L0006417         0   0.15232E-03  731754.7 4055018.3    63.1     3.40     4.00
3.16     NO                    NO
 L0006418         0   0.15232E-03  731755.2 4055009.7    63.1     3.40     4.00
3.16     NO                    NO
 L0006419         0   0.15232E-03  731755.7 4055001.1    63.1     3.40     4.00
3.16     NO                    NO
 L0006420         0   0.15232E-03  731756.3 4054992.5    63.1     3.40     4.00
3.16     NO                    NO
 L0006421         0   0.15232E-03  731756.8 4054983.9    63.1     3.40     4.00
3.16     NO                    NO
 L0006422         0   0.15232E-03  731757.4 4054975.3    63.1     3.40     4.00
3.16     NO                    NO
 L0006423         0   0.15232E-03  731757.9 4054966.8    63.1     3.40     4.00
3.16     NO                    NO
 L0006424         0   0.15232E-03  731758.4 4054958.2    63.1     3.40     4.00
3.16     NO                    NO
 L0006425         0   0.15232E-03  731750.0 4054957.8    63.1     3.40     4.00
3.16     NO                    NO
 L0006426         0   0.15232E-03  731741.4 4054957.6    63.1     3.40     4.00
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3.16   NO   NO
 L0006427   0   0.15232E-03 731732.8 4054957.4   63.1   3.40   4.00
3.16   NO   NO
 L0006428   0   0.15232E-03 731724.2 4054957.2   63.1   3.40   4.00
3.16   NO   NO
 L0006429   0   0.15232E-03 731715.6 4054957.0   63.2   3.40   4.00
3.16   NO   NO
 L0006430   0   0.15232E-03 731707.0 4054956.8   63.2   3.40   4.00
3.16   NO   NO
 L0006431   0   0.15232E-03 731698.4 4054956.6   63.2   3.40   4.00
3.16   NO   NO
 L0006432   0   0.15232E-03 731689.8 4054956.4   63.2   3.40   4.00
3.16   NO   NO
 L0006433   0   0.15232E-03 731681.2 4054956.2   63.2   3.40   4.00
3.16   NO   NO
 L0006434   0   0.15232E-03 731672.6 4054956.1   63.2   3.40   4.00
3.16   NO   NO
 L0006435   0   0.15232E-03 731664.0 4054955.9   63.2   3.40   4.00
3.16   NO   NO
 L0006436   0   0.15232E-03 731655.4 4054955.7   63.2   3.40   4.00
3.16   NO   NO
 L0006437   0   0.15232E-03 731646.8 4054955.5   63.2   3.40   4.00
3.16   NO   NO
 L0006438   0   0.15232E-03 731638.2 4054955.3   63.3   3.40   4.00
3.16   NO   NO
 L0006439   0   0.15232E-03 731629.6 4054955.1   63.3   3.40   4.00
3.16   NO   NO
 L0006440   0   0.15232E-03 731621.0 4054954.9   63.3   3.40   4.00
3.16   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

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

 L0006441   0   0.15232E-03 731612.5 4054954.7   63.3   3.40   4.00

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3.16     NO                    NO
 L0006442         0   0.15232E-03  731603.9 4054954.5    63.3     3.40     4.00
3.16     NO                    NO
 L0006443         0   0.15232E-03  731595.3 4054954.3    63.4     3.40     4.00
3.16     NO                    NO
 L0006444         0   0.15232E-03  731586.7 4054954.1    63.4     3.40     4.00
3.16     NO                    NO
 L0006445         0   0.15232E-03  731578.1 4054953.9    63.4     3.40     4.00
3.16     NO                    NO
 L0006446         0   0.15232E-03  731569.5 4054953.7    63.4     3.40     4.00
3.16     NO                    NO
 L0006447         0   0.15232E-03  731560.9 4054953.5    63.4     3.40     4.00
3.16     NO                    NO
 L0006448         0   0.15232E-03  731552.3 4054953.3    63.4     3.40     4.00
3.16     NO                    NO
 L0006449         0   0.15232E-03  731543.7 4054953.1    63.5     3.40     4.00
3.16     NO                    NO
 L0006450         0   0.15232E-03  731535.1 4054952.9    63.5     3.40     4.00
3.16     NO                    NO
 L0006451         0   0.15232E-03  731526.5 4054952.7    63.5     3.40     4.00
3.16     NO                    NO
 L0006452         0   0.15232E-03  731517.9 4054952.5    63.5     3.40     4.00
3.16     NO                    NO
 L0006453         0   0.15232E-03  731509.3 4054952.3    63.5     3.40     4.00
3.16     NO                    NO
 L0006454         0   0.15232E-03  731500.7 4054952.1    63.5     3.40     4.00
3.16     NO                    NO
 L0006455         0   0.15232E-03  731492.1 4054951.9    63.5     3.40     4.00
3.16     NO                    NO
 L0006456         0   0.15232E-03  731483.5 4054951.8    63.5     3.40     4.00
3.16     NO                    NO
 L0006457         0   0.15232E-03  731474.9 4054951.6    63.5     3.40     4.00
3.16     NO                    NO
 L0006458         0   0.15232E-03  731466.3 4054951.4    63.5     3.40     4.00
3.16     NO                    NO
 L0006459         0   0.15232E-03  731457.7 4054951.2    63.5     3.40     4.00
3.16     NO                    NO
 L0006460         0   0.15232E-03  731449.1 4054951.0    63.6     3.40     4.00
3.16     NO                    NO
 L0006461         0   0.15232E-03  731440.5 4054950.8    63.6     3.40     4.00
3.16     NO                    NO
 L0006462         0   0.15232E-03  731431.9 4054950.6    63.6     3.40     4.00
3.16     NO                    NO
 L0006463         0   0.15232E-03  731423.3 4054950.4    63.6     3.40     4.00
3.16     NO                    NO
 L0006464         0   0.15232E-03  731414.7 4054950.2    63.7     3.40     4.00
3.16     NO                    NO
 L0006465         0   0.15232E-03  731406.1 4054950.0    63.7     3.40     4.00
3.16     NO                    NO
 L0006466         0   0.15232E-03  731397.5 4054949.8    63.7     3.40     4.00
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3.16     NO                     NO
 L0006467         0   0.15232E-03  731388.9 4054949.6    63.8     3.40     4.00
3.16     NO                     NO
 L0006468         0   0.15232E-03  731380.3 4054949.4    63.8     3.40     4.00
3.16     NO                     NO
 L0006469         0   0.15232E-03  731376.7 4054954.8    63.9     3.40     4.00
3.16     NO                     NO
 L0006470         0   0.15232E-03  731375.9 4054963.3    63.9     3.40     4.00
3.16     NO                     NO
 L0006471         0   0.15232E-03  731375.1 4054971.9    63.9     3.40     4.00
3.16     NO                     NO
 L0006472         0   0.15232E-03  731374.3 4054980.5    63.8     3.40     4.00
3.16     NO                     NO
 L0006473         0   0.15232E-03  731373.5 4054989.0    63.8     3.40     4.00
3.16     NO                     NO
 L0006474         0   0.15232E-03  731372.6 4054997.6    63.9     3.40     4.00
3.16     NO                     NO
 L0006475         0   0.15232E-03  731371.8 4055006.1    63.9     3.40     4.00
3.16     NO                     NO
 L0006476         0   0.15232E-03  731371.0 4055014.7    63.9     3.40     4.00
3.16     NO                     NO
 L0006477         0   0.15232E-03  731370.2 4055023.3    63.9     3.40     4.00
3.16     NO                     NO
 L0006478         0   0.15232E-03  731369.4 4055031.8    63.9     3.40     4.00
3.16     NO                     NO
 L0006479         0   0.15232E-03  731368.6 4055040.4    63.9     3.40     4.00
3.16     NO                     NO
 L0006480         0   0.15232E-03  731367.8 4055049.0    64.0     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE 164
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0006481         0   0.15232E-03  731367.0 4055057.5    64.0     3.40     4.00
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3.16     NO                    NO
 L0006482         0   0.15232E-03  731366.2 4055066.1    64.0     3.40     4.00
3.16     NO                    NO
 L0006483         0   0.15232E-03  731365.4 4055074.6    64.0     3.40     4.00
3.16     NO                    NO
 L0006484         0   0.15232E-03  731364.6 4055083.2    64.0     3.40     4.00
3.16     NO                    NO
 L0006485         0   0.15232E-03  731363.8 4055091.8    64.0     3.40     4.00
3.16     NO                    NO
 L0006486         0   0.15232E-03  731363.0 4055100.3    64.0     3.40     4.00
3.16     NO                    NO
 L0006487         0   0.15232E-03  731362.2 4055108.9    64.0     3.40     4.00
3.16     NO                    NO
 L0006488         0   0.15232E-03  731361.4 4055117.5    64.0     3.40     4.00
3.16     NO                    NO
 L0006489         0   0.15232E-03  731360.6 4055126.0    64.0     3.40     4.00
3.16     NO                    NO
 L0006490         0   0.15232E-03  731359.8 4055134.6    64.0     3.40     4.00
3.16     NO                    NO
 L0006491         0   0.15232E-03  731359.0 4055143.1    64.0     3.40     4.00
3.16     NO                    NO
 L0006492         0   0.15232E-03  731358.2 4055151.7    64.0     3.40     4.00
3.16     NO                    NO
 L0006493         0   0.15232E-03  731357.4 4055160.3    64.0     3.40     4.00
3.16     NO                    NO
 L0006494         0   0.15232E-03  731356.6 4055168.8    64.0     3.40     4.00
3.16     NO                    NO
 L0006495         0   0.15232E-03  731355.8 4055177.4    64.0     3.40     4.00
3.16     NO                    NO
 L0006496         0   0.15232E-03  731355.0 4055186.0    64.0     3.40     4.00
3.16     NO                    NO
 L0006497         0   0.15232E-03  731354.2 4055194.5    64.0     3.40     4.00
3.16     NO                    NO
 L0006498         0   0.15232E-03  731353.4 4055203.1    64.0     3.40     4.00
3.16     NO                    NO
 L0006499         0   0.15232E-03  731352.6 4055211.6    64.0     3.40     4.00
3.16     NO                    NO
 L0006500         0   0.15232E-03  731351.8 4055220.2    64.0     3.40     4.00
3.16     NO                    NO
 L0006501         0   0.15232E-03  731353.3 4055226.8    64.0     3.40     4.00
3.16     NO                    NO
 L0006502         0   0.15232E-03  731361.9 4055227.7    64.0     3.40     4.00
3.16     NO                    NO
 L0006503         0   0.15232E-03  731370.4 4055228.5    64.0     3.40     4.00
3.16     NO                    NO
 L0006504         0   0.15232E-03  731379.0 4055229.4    64.0     3.40     4.00
3.16     NO                    NO
 L0006505         0   0.15232E-03  731387.6 4055230.3    64.0     3.40     4.00
3.16     NO                    NO
 L0006506         0   0.15232E-03  731396.1 4055231.1    63.9     3.40     4.00
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3.16 NO NO
L0006507 0 0.15232E-03 731404.7 4055232.0 63.9 3.40 4.00
3.16 NO NO
L0006508 0 0.15232E-03 731413.2 4055232.8 63.9 3.40 4.00
3.16 NO NO
L0006509 0 0.15232E-03 731421.8 4055233.7 63.9 3.40 4.00
3.16 NO NO
L0006510 0 0.15232E-03 731430.3 4055234.5 63.9 3.40 4.00
3.16 NO NO
L0006511 0 0.15232E-03 731438.9 4055235.4 63.9 3.40 4.00
3.16 NO NO
L0006512 0 0.15232E-03 731447.5 4055236.2 63.8 3.40 4.00
3.16 NO NO
L0006513 0 0.15232E-03 731456.0 4055237.1 63.8 3.40 4.00
3.16 NO NO
L0006514 0 0.15232E-03 731464.6 4055238.0 63.8 3.40 4.00
3.16 NO NO
L0006515 0 0.15232E-03 731473.1 4055238.8 63.8 3.40 4.00
3.16 NO NO
L0006516 0 0.15232E-03 731481.7 4055239.7 63.8 3.40 4.00
3.16 NO NO
L0006517 0 0.15232E-03 731490.2 4055240.5 63.8 3.40 4.00
3.16 NO NO
L0006518 0 0.15232E-03 731498.8 4055241.4 63.7 3.40 4.00
3.16 NO NO
L0006519 0 0.15232E-03 731507.4 4055242.2 63.7 3.40 4.00
3.16 NO NO
L0006520 0 0.15232E-03 731515.9 4055243.1 63.7 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY	AIRCRAFT
L0006521	0	0.15232E-03	731524.5	4055244.0	63.7	3.40	4.00				

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3.16     NO                    NO
 L0006522         0   0.15232E-03  731533.0 4055244.8    63.7     3.40     4.00
3.16     NO                    NO
 L0006523         0   0.15232E-03  731541.6 4055245.7    63.6     3.40     4.00
3.16     NO                    NO
 L0006524         0   0.15232E-03  731550.1 4055246.5    63.6     3.40     4.00
3.16     NO                    NO
 L0006525         0   0.15232E-03  731558.7 4055247.4    63.6     3.40     4.00
3.16     NO                    NO
 L0006526         0   0.15232E-03  731567.3 4055248.2    63.6     3.40     4.00
3.16     NO                    NO
 L0006527         0   0.15232E-03  731575.8 4055249.1    63.6     3.40     4.00
3.16     NO                    NO
 L0006528         0   0.15232E-03  731584.4 4055249.9    63.6     3.40     4.00
3.16     NO                    NO
 L0006529         0   0.15232E-03  731592.9 4055250.8    63.5     3.40     4.00
3.16     NO                    NO
 L0006530         0   0.15232E-03  731601.5 4055251.7    63.5     3.40     4.00
3.16     NO                    NO
 L0006531         0   0.15232E-03  731610.0 4055252.5    63.5     3.40     4.00
3.16     NO                    NO
 L0006532         0   0.15232E-03  731612.4 4055245.2    63.5     3.40     4.00
3.16     NO                    NO
 L0006533         0   0.15232E-03  731613.9 4055236.8    63.5     3.40     4.00
3.16     NO                    NO
 L0006534         0   0.15232E-03  731615.4 4055228.3    63.5     3.40     4.00
3.16     NO                    NO
 L0006535         0   0.15232E-03  731616.9 4055219.8    63.5     3.40     4.00
3.16     NO                    NO
 L0006536         0   0.15232E-03  731618.4 4055211.3    63.4     3.40     4.00
3.16     NO                    NO
 L0006537         0   0.15232E-03  731619.9 4055202.9    63.4     3.40     4.00
3.16     NO                    NO
 L0006538         0   0.15232E-03  731621.4 4055194.4    63.4     3.40     4.00
3.16     NO                    NO
 L0006539         0   0.15232E-03  731622.9 4055185.9    63.4     3.40     4.00
3.16     NO                    NO
 L0006540         0   0.15232E-03  731624.4 4055177.5    63.4     3.40     4.00
3.16     NO                    NO
 L0006541         0   0.15232E-03  731625.9 4055169.0    63.4     3.40     4.00
3.16     NO                    NO
 L0006542         0   0.15232E-03  731627.4 4055160.5    63.4     3.40     4.00
3.16     NO                    NO
 L0006543         0   0.15232E-03  731628.9 4055152.1    63.4     3.40     4.00
3.16     NO                    NO
 L0006544         0   0.15232E-03  731630.4 4055143.6    63.4     3.40     4.00
3.16     NO                    NO
 L0006545         0   0.15232E-03  731631.9 4055135.1    63.4     3.40     4.00
3.16     NO                    NO
 L0006546         0   0.15232E-03  731633.4 4055126.7    63.4     3.40     4.00
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3.16   NO   NO
 L0006547   0   0.15232E-03 731634.9 4055118.2   63.4   3.40   4.00
3.16   NO   NO
 L0006548   0   0.15232E-03 731636.3 4055109.7   63.4   3.40   4.00
3.16   NO   NO
 L0006549   0   0.15232E-03 731633.0 4055104.8   63.4   3.40   4.00
3.16   NO   NO
 L0006550   0   0.15232E-03 731624.5 4055103.8   63.4   3.40   4.00
3.16   NO   NO
 L0006551   0   0.15232E-03 731615.9 4055102.8   63.4   3.40   4.00
3.16   NO   NO
 L0006552   0   0.15232E-03 731607.4 4055101.8   63.4   3.40   4.00
3.16   NO   NO
 L0006553   0   0.15232E-03 731598.9 4055100.8   63.4   3.40   4.00
3.16   NO   NO
 L0006554   0   0.15232E-03 731590.3 4055099.8   63.5   3.40   4.00
3.16   NO   NO
 L0006555   0   0.15232E-03 731581.8 4055098.8   63.5   3.40   4.00
3.16   NO   NO
 L0006556   0   0.15232E-03 731573.2 4055097.8   63.5   3.40   4.00
3.16   NO   NO
 L0006557   0   0.15232E-03 731564.7 4055096.8   63.5   3.40   4.00
3.16   NO   NO
 L0006558   0   0.15232E-03 731556.2 4055095.8   63.5   3.40   4.00
3.16   NO   NO
 L0006559   0   0.15232E-03 731547.6 4055094.8   63.5   3.40   4.00
3.16   NO   NO
 L0006560   0   0.15232E-03 731539.1 4055093.8   63.6   3.40   4.00
3.16   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

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

 L0006561   0   0.15232E-03 731530.5 4055092.8   63.6   3.40   4.00

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3.16     NO                    NO
 L0006562         0   0.15232E-03  731522.0 4055091.8    63.6     3.40     4.00
3.16     NO                    NO
 L0006563         0   0.15232E-03  731513.5 4055090.8    63.6     3.40     4.00
3.16     NO                    NO
 L0006564         0   0.15232E-03  731504.9 4055089.8    63.6     3.40     4.00
3.16     NO                    NO
 L0006565         0   0.15232E-03  731496.4 4055088.8    63.6     3.40     4.00
3.16     NO                    NO
 L0006566         0   0.28653E-02  731180.1 4054708.8    64.8     3.40     4.00
3.16     NO                    NO
 L0006567         0   0.28653E-02  731180.3 4054700.2    64.8     3.40     4.00
3.16     NO                    NO
 L0006568         0   0.28653E-02  731180.5 4054691.7    64.8     3.40     4.00
3.16     NO                    NO
 L0006569         0   0.28653E-02  731180.7 4054683.1    64.8     3.40     4.00
3.16     NO                    NO
 L0006570         0   0.28653E-02  731180.9 4054674.5    64.8     3.40     4.00
3.16     NO                    NO
 L0006571         0   0.28653E-02  731181.1 4054665.9    64.8     3.40     4.00
3.16     NO                    NO
 L0006572         0   0.28653E-02  731181.3 4054657.3    64.8     3.40     4.00
3.16     NO                    NO
 L0006573         0   0.28653E-02  731181.5 4054648.7    64.8     3.40     4.00
3.16     NO                    NO
 L0006574         0   0.28653E-02  731181.7 4054640.1    64.8     3.40     4.00
3.16     NO                    NO
 L0006575         0   0.28653E-02  731182.0 4054631.5    64.8     3.40     4.00
3.16     NO                    NO
 L0006576         0   0.28653E-02  731182.2 4054622.9    64.8     3.40     4.00
3.16     NO                    NO
 L0006577         0   0.28653E-02  731182.4 4054614.3    64.8     3.40     4.00
3.16     NO                    NO
 L0006578         0   0.28653E-02  731182.6 4054605.7    64.8     3.40     4.00
3.16     NO                    NO
 L0006579         0   0.28653E-02  731182.8 4054597.1    64.8     3.40     4.00
3.16     NO                    NO
 L0006580         0   0.28653E-02  731183.0 4054588.5    64.8     3.40     4.00
3.16     NO                    NO
 L0006581         0   0.28653E-02  731183.2 4054579.9    64.8     3.40     4.00
3.16     NO                    NO
 L0006582         0   0.28653E-02  731183.4 4054571.3    64.8     3.40     4.00
3.16     NO                    NO
 L0006583         0   0.28653E-02  731183.6 4054562.7    64.8     3.40     4.00
3.16     NO                    NO
 L0006584         0   0.28653E-02  731183.8 4054554.1    64.8     3.40     4.00
3.16     NO                    NO
 L0006585         0   0.28653E-02  731184.0 4054545.5    64.8     3.40     4.00
3.16     NO                    NO
 L0006586         0   0.28653E-02  731184.2 4054536.9    64.8     3.40     4.00
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3.16     NO                     NO
 L0006587         0   0.28653E-02  731184.4 4054528.3    64.8     3.40     4.00
3.16     NO                     NO
 L0006588         0   0.28653E-02  731184.7 4054519.7    64.8     3.40     4.00
3.16     NO                     NO
 L0006589         0   0.28653E-02  731184.9 4054511.1    64.8     3.40     4.00
3.16     NO                     NO
 L0006590         0   0.28653E-02  731185.1 4054502.5    64.8     3.40     4.00
3.16     NO                     NO
 L0006591         0   0.28653E-02  731185.3 4054493.9    64.8     3.40     4.00
3.16     NO                     NO
 L0006592         0   0.28653E-02  731185.5 4054485.3    64.8     3.40     4.00
3.16     NO                     NO
 L0006593         0   0.28653E-02  731185.7 4054476.7    64.8     3.40     4.00
3.16     NO                     NO
 L0006594         0   0.28653E-02  731185.9 4054468.1    64.8     3.40     4.00
3.16     NO                     NO
 L0006595         0   0.28653E-02  731186.1 4054459.5    64.8     3.40     4.00
3.16     NO                     NO
 L0006596         0   0.28653E-02  731186.3 4054450.9    64.8     3.40     4.00
3.16     NO                     NO
 L0006597         0   0.28653E-02  731186.5 4054442.3    64.8     3.40     4.00
3.16     NO                     NO
 L0006598         0   0.28653E-02  731186.7 4054433.7    64.8     3.40     4.00
3.16     NO                     NO
 L0006599         0   0.28653E-02  731186.9 4054425.1    64.8     3.40     4.00
3.16     NO                     NO
 L0006600         0   0.28653E-02  731187.1 4054416.5    64.8     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE 167
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
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 L0006601         0   0.28653E-02  731187.4 4054407.9    64.8     3.40     4.00
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3.16     NO                    NO
 L0006602         0   0.28653E-02  731187.6 4054399.3    64.8     3.40     4.00
3.16     NO                    NO
 L0006603         0   0.28653E-02  731187.8 4054390.7    64.8     3.40     4.00
3.16     NO                    NO
 L0006604         0   0.28653E-02  731188.0 4054382.1    64.8     3.40     4.00
3.16     NO                    NO
 L0006605         0   0.28653E-02  731188.2 4054373.5    64.8     3.40     4.00
3.16     NO                    NO
 L0006606         0   0.28653E-02  731188.4 4054364.9    64.8     3.40     4.00
3.16     NO                    NO
 L0006607         0   0.28653E-02  731188.6 4054356.3    64.8     3.40     4.00
3.16     NO                    NO
 L0006608         0   0.28653E-02  731188.8 4054347.8    64.8     3.40     4.00
3.16     NO                    NO
 L0006609         0   0.28653E-02  731189.0 4054339.2    64.8     3.40     4.00
3.16     NO                    NO
 L0006610         0   0.28653E-02  731189.2 4054330.6    64.8     3.40     4.00
3.16     NO                    NO
 L0006611         0   0.28653E-02  731189.4 4054322.0    64.8     3.40     4.00
3.16     NO                    NO
 L0006612         0   0.28653E-02  731189.6 4054313.4    64.8     3.40     4.00
3.16     NO                    NO
 L0006613         0   0.28653E-02  731189.8 4054304.8    64.8     3.40     4.00
3.16     NO                    NO
 L0006614         0   0.28653E-02  731190.0 4054296.2    64.8     3.40     4.00
3.16     NO                    NO
 L0006615         0   0.28653E-02  731190.3 4054287.6    64.8     3.40     4.00
3.16     NO                    NO
 L0006616         0   0.28653E-02  731190.5 4054279.0    64.8     3.40     4.00
3.16     NO                    NO
 L0006617         0   0.28653E-02  731190.7 4054270.4    64.8     3.40     4.00
3.16     NO                    NO
 L0006618         0   0.28653E-02  731190.9 4054261.8    64.8     3.40     4.00
3.16     NO                    NO
 L0006619         0   0.28653E-02  731191.1 4054253.2    64.8     3.40     4.00
3.16     NO                    NO
 L0006620         0   0.28653E-02  731191.3 4054244.6    64.8     3.40     4.00
3.16     NO                    NO
 L0006621         0   0.28653E-02  731191.5 4054236.0    64.8     3.40     4.00
3.16     NO                    NO
 L0006622         0   0.28653E-02  731191.7 4054227.4    64.8     3.40     4.00
3.16     NO                    NO
 L0006623         0   0.28653E-02  731191.9 4054218.8    64.9     3.40     4.00
3.16     NO                    NO
 L0006624         0   0.28653E-02  731192.1 4054210.2    64.9     3.40     4.00
3.16     NO                    NO
 L0006625         0   0.28653E-02  731192.3 4054201.6    64.9     3.40     4.00
3.16     NO                    NO
 L0006626         0   0.28653E-02  731192.5 4054193.0    64.9     3.40     4.00
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3.16   NO   NO
 L0006627   0   0.28653E-02 731192.7 4054184.4   64.9   3.40   4.00
3.16   NO   NO
 L0006628   0   0.28653E-02 731193.0 4054175.8   64.9   3.40   4.00
3.16   NO   NO
 L0006629   0   0.28653E-02 731193.2 4054167.2   64.9   3.40   4.00
3.16   NO   NO
 L0006630   0   0.28653E-02 731193.4 4054158.6   64.9   3.40   4.00
3.16   NO   NO
 L0006631   0   0.28653E-02 731193.6 4054150.0   65.0   3.40   4.00
3.16   NO   NO
 L0006632   0   0.28653E-02 731193.8 4054141.4   65.0   3.40   4.00
3.16   NO   NO
 L0006633   0   0.28653E-02 731194.0 4054132.8   65.0   3.40   4.00
3.16   NO   NO
 L0006634   0   0.28653E-02 731194.2 4054124.2   65.0   3.40   4.00
3.16   NO   NO
 L0006635   0   0.28653E-02 731194.4 4054115.6   65.0   3.40   4.00
3.16   NO   NO
 L0006636   0   0.28653E-02 731194.6 4054107.0   65.0   3.40   4.00
3.16   NO   NO
 L0006637   0   0.28653E-02 731194.8 4054098.4   65.0   3.40   4.00
3.16   NO   NO
 L0006638   0   0.28653E-02 731195.0 4054089.8   65.0   3.40   4.00
3.16   NO   NO
 L0006639   0   0.28653E-02 731195.2 4054081.2   65.0   3.40   4.00
3.16   NO   NO
 L0006640   0   0.28653E-02 731195.4 4054072.6   65.0   3.40   4.00
3.16   NO   NO

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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 L0006641   0   0.28653E-02 731195.7 4054064.0   65.0   3.40   4.00

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3.16     NO                    NO
 L0006642         0   0.28653E-02  731195.9 4054055.4    64.9     3.40     4.00
3.16     NO                    NO
 L0006643         0   0.28653E-02  731196.1 4054046.8    64.9     3.40     4.00
3.16     NO                    NO
 L0006644         0   0.28653E-02  731196.3 4054038.2    64.9     3.40     4.00
3.16     NO                    NO
 L0006645         0   0.28653E-02  731196.5 4054029.6    64.9     3.40     4.00
3.16     NO                    NO
 L0006646         0   0.28653E-02  731196.7 4054021.0    64.9     3.40     4.00
3.16     NO                    NO
 L0006647         0   0.28653E-02  731196.9 4054012.4    64.9     3.40     4.00
3.16     NO                    NO
 L0006648         0   0.28653E-02  731197.1 4054003.9    64.9     3.40     4.00
3.16     NO                    NO
 L0006649         0   0.28653E-02  731197.3 4053995.3    64.9     3.40     4.00
3.16     NO                    NO
 L0006650         0   0.28653E-02  731197.5 4053986.7    65.0     3.40     4.00
3.16     NO                    NO
 L0006651         0   0.28653E-02  731197.7 4053978.1    65.0     3.40     4.00
3.16     NO                    NO
 L0006652         0   0.28653E-02  731197.9 4053969.5    65.0     3.40     4.00
3.16     NO                    NO
 L0006653         0   0.28653E-02  731198.1 4053960.9    65.0     3.40     4.00
3.16     NO                    NO
 L0006654         0   0.28653E-02  731198.3 4053952.3    65.1     3.40     4.00
3.16     NO                    NO
 L0006655         0   0.28653E-02  731198.6 4053943.7    65.1     3.40     4.00
3.16     NO                    NO
 L0006656         0   0.28653E-02  731198.8 4053935.1    65.1     3.40     4.00
3.16     NO                    NO
 L0006657         0   0.28653E-02  731199.0 4053926.5    65.2     3.40     4.00
3.16     NO                    NO
 L0006658         0   0.28653E-02  731199.2 4053917.9    65.2     3.40     4.00
3.16     NO                    NO
 L0006659         0   0.28653E-02  731199.4 4053909.3    65.2     3.40     4.00
3.16     NO                    NO
 L0006660         0   0.28653E-02  731199.6 4053900.7    65.2     3.40     4.00
3.16     NO                    NO
 L0006661         0   0.28653E-02  731199.8 4053892.1    65.3     3.40     4.00
3.16     NO                    NO
 L0006662         0   0.28653E-02  731200.0 4053883.5    65.3     3.40     4.00
3.16     NO                    NO
 L0006663         0   0.28653E-02  731200.2 4053874.9    65.3     3.40     4.00
3.16     NO                    NO
 L0006664         0   0.28653E-02  731200.4 4053866.3    65.3     3.40     4.00
3.16     NO                    NO
 L0006665         0   0.28653E-02  731200.6 4053857.7    65.3     3.40     4.00
3.16     NO                    NO
 L0006666         0   0.28653E-02  731200.8 4053849.1    65.3     3.40     4.00
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3.16     NO                     NO
 L0006667         0   0.28653E-02  731201.0 4053840.5    65.4     3.40     4.00
3.16     NO                     NO
 L0006668         0   0.28653E-02  731201.3 4053831.9    65.4     3.40     4.00
3.16     NO                     NO
 L0006669         0   0.28653E-02  731201.5 4053823.3    65.4     3.40     4.00
3.16     NO                     NO
 L0006670         0   0.28653E-02  731201.7 4053814.7    65.5     3.40     4.00
3.16     NO                     NO
 L0006671         0   0.28653E-02  731201.9 4053806.1    65.5     3.40     4.00
3.16     NO                     NO
 L0006672         0   0.28653E-02  731202.1 4053797.5    65.5     3.40     4.00
3.16     NO                     NO
 L0006673         0   0.28653E-02  731202.3 4053788.9    65.5     3.40     4.00
3.16     NO                     NO
 L0006674         0   0.28653E-02  731202.5 4053780.3    65.6     3.40     4.00
3.16     NO                     NO
 L0006675         0   0.28653E-02  731202.7 4053771.7    65.6     3.40     4.00
3.16     NO                     NO
 L0006676         0   0.28653E-02  731202.9 4053763.1    65.6     3.40     4.00
3.16     NO                     NO
 L0006677         0   0.28653E-02  731203.1 4053754.5    65.6     3.40     4.00
3.16     NO                     NO
 L0006678         0   0.28653E-02  731203.3 4053745.9    65.7     3.40     4.00
3.16     NO                     NO
 L0006679         0   0.28653E-02  731203.5 4053737.3    65.7     3.40     4.00
3.16     NO                     NO
 L0006680         0   0.28653E-02  731203.7 4053728.7    65.7     3.40     4.00
3.16     NO                     NO
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0006681         0   0.28653E-02  731204.0 4053720.1    65.8     3.40     4.00
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3.16     NO                    NO
 L0006683         0   0.28653E-02  731204.4 4053702.9    65.8     3.40     4.00
3.16     NO                    NO
 L0006684         0   0.28653E-02  731204.6 4053694.3    65.8     3.40     4.00
3.16     NO                    NO
 L0006685         0   0.28653E-02  731204.8 4053685.7    65.8     3.40     4.00
3.16     NO                    NO
 L0006686         0   0.28653E-02  731205.0 4053677.1    65.8     3.40     4.00
3.16     NO                    NO
 L0006687         0   0.28653E-02  731205.2 4053668.5    65.8     3.40     4.00
3.16     NO                    NO
 L0006688         0   0.28653E-02  731205.4 4053660.0    65.9     3.40     4.00
3.16     NO                    NO
 L0006689         0   0.28653E-02  731205.6 4053651.4    65.9     3.40     4.00
3.16     NO                    NO
 L0006690         0   0.28653E-02  731205.8 4053642.8    65.9     3.40     4.00
3.16     NO                    NO
 L0006691         0   0.28653E-02  731206.0 4053634.2    65.9     3.40     4.00
3.16     NO                    NO
 L0006692         0   0.28653E-02  731206.2 4053625.6    65.9     3.40     4.00
3.16     NO                    NO
 L0006693         0   0.28653E-02  731206.4 4053617.0    65.9     3.40     4.00
3.16     NO                    NO
 L0006694         0   0.28653E-02  731206.7 4053608.4    66.0     3.40     4.00
3.16     NO                    NO
 L0006695         0   0.28653E-02  731206.9 4053599.8    66.0     3.40     4.00
3.16     NO                    NO
 L0006696         0   0.28653E-02  731207.1 4053591.2    66.0     3.40     4.00
3.16     NO                    NO
 L0006697         0   0.28653E-02  731207.3 4053582.6    66.0     3.40     4.00
3.16     NO                    NO
 L0006698         0   0.28653E-02  731207.5 4053574.0    66.0     3.40     4.00
3.16     NO                    NO
 L0006699         0   0.28653E-02  731207.7 4053565.4    66.0     3.40     4.00
3.16     NO                    NO
 L0006700         0   0.28653E-02  731207.9 4053556.8    66.0     3.40     4.00
3.16     NO                    NO
 L0006701         0   0.28653E-02  731208.1 4053548.2    66.1     3.40     4.00
3.16     NO                    NO
 L0006702         0   0.28653E-02  731208.3 4053539.6    66.1     3.40     4.00
3.16     NO                    NO
 L0006703         0   0.28653E-02  731208.5 4053531.0    66.1     3.40     4.00
3.16     NO                    NO
 L0006704         0   0.28653E-02  731208.7 4053522.4    66.1     3.40     4.00
3.16     NO                    NO
 L0006705         0   0.28653E-02  731208.9 4053513.8    66.1     3.40     4.00
3.16     NO                    NO
 L0006706         0   0.28653E-02  731209.1 4053505.2    66.1     3.40     4.00
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3.16 NO NO
L0006707 0 0.28653E-02 731209.3 4053496.6 66.1 3.40 4.00
3.16 NO NO
L0006708 0 0.28653E-02 731209.6 4053488.0 66.2 3.40 4.00
3.16 NO NO
L0006709 0 0.28653E-02 731209.8 4053479.4 66.2 3.40 4.00
3.16 NO NO
L0006710 0 0.28653E-02 731210.0 4053470.8 66.2 3.40 4.00
3.16 NO NO
L0006711 0 0.28653E-02 731210.2 4053462.2 66.2 3.40 4.00
3.16 NO NO
L0006712 0 0.28653E-02 731210.4 4053453.6 66.2 3.40 4.00
3.16 NO NO
L0006713 0 0.28653E-02 731210.6 4053445.0 66.2 3.40 4.00
3.16 NO NO
L0006714 0 0.28653E-02 731210.8 4053436.4 66.2 3.40 4.00
3.16 NO NO
L0006715 0 0.28653E-02 731211.0 4053427.8 66.2 3.40 4.00
3.16 NO NO
L0006716 0 0.28653E-02 731211.2 4053419.2 66.2 3.40 4.00
3.16 NO NO
L0006717 0 0.28653E-02 731211.4 4053410.6 66.3 3.40 4.00
3.16 NO NO
L0006718 0 0.28653E-02 731211.6 4053402.0 66.3 3.40 4.00
3.16 NO NO
L0006719 0 0.28653E-02 731211.8 4053393.4 66.3 3.40 4.00
3.16 NO NO
L0006720 0 0.28653E-02 731212.0 4053384.8 66.3 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	EMISSION RATE SCALAR VARY	AIRCRAFT
L0006721	0	0.28653E-02	731212.3	4053376.2	66.3	3.40	4.00				

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3.16     NO                    NO
 L0006722         0   0.28653E-02  731212.5 4053367.6    66.3     3.40     4.00
3.16     NO                    NO
 L0006723         0   0.28653E-02  731212.7 4053359.0    66.3     3.40     4.00
3.16     NO                    NO
 L0006724         0   0.28653E-02  731212.9 4053350.4    66.3     3.40     4.00
3.16     NO                    NO
 L0006725         0   0.28653E-02  731213.1 4053341.8    66.3     3.40     4.00
3.16     NO                    NO
 L0006726         0   0.28653E-02  731213.3 4053333.2    66.4     3.40     4.00
3.16     NO                    NO
 L0006727         0   0.28653E-02  731213.5 4053324.6    66.4     3.40     4.00
3.16     NO                    NO
 L0006728         0   0.28653E-02  731213.7 4053316.1    66.4     3.40     4.00
3.16     NO                    NO
 L0006729         0   0.28653E-02  731213.9 4053307.5    66.4     3.40     4.00
3.16     NO                    NO
 L0006730         0   0.28653E-02  731214.1 4053298.9    66.4     3.40     4.00
3.16     NO                    NO
 L0006731         0   0.28653E-02  731214.3 4053290.3    66.5     3.40     4.00
3.16     NO                    NO
 L0006732         0   0.28653E-02  731214.5 4053281.7    66.5     3.40     4.00
3.16     NO                    NO
 L0006733         0   0.28653E-02  731214.7 4053273.1    66.5     3.40     4.00
3.16     NO                    NO
 L0006734         0   0.28653E-02  731215.0 4053264.5    66.5     3.40     4.00
3.16     NO                    NO
 L0006735         0   0.28653E-02  731215.2 4053255.9    66.6     3.40     4.00
3.16     NO                    NO
 L0006736         0   0.28653E-02  731215.4 4053247.3    66.6     3.40     4.00
3.16     NO                    NO
 L0006737         0   0.28653E-02  731215.6 4053238.7    66.6     3.40     4.00
3.16     NO                    NO
 L0006738         0   0.28653E-02  731215.8 4053230.1    66.6     3.40     4.00
3.16     NO                    NO
 L0006739         0   0.28653E-02  731216.0 4053221.5    66.6     3.40     4.00
3.16     NO                    NO
 L0006740         0   0.28653E-02  731216.2 4053212.9    66.6     3.40     4.00
3.16     NO                    NO
 L0006741         0   0.28653E-02  731216.4 4053204.3    66.7     3.40     4.00
3.16     NO                    NO
 L0006742         0   0.28653E-02  731216.6 4053195.7    66.7     3.40     4.00
3.16     NO                    NO
 L0006743         0   0.28653E-02  731216.8 4053187.1    66.7     3.40     4.00
3.16     NO                    NO
 L0006744         0   0.28653E-02  731217.0 4053178.5    66.7     3.40     4.00
3.16     NO                    NO
 L0006745         0   0.28653E-02  731217.2 4053169.9    66.8     3.40     4.00
3.16     NO                    NO
 L0006746         0   0.28653E-02  731217.4 4053161.3    66.8     3.40     4.00
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3.16 NO NO
L0006747 0 0.28653E-02 731217.6 4053152.7 66.8 3.40 4.00
3.16 NO NO
L0006748 0 0.28653E-02 731217.9 4053144.1 66.8 3.40 4.00
3.16 NO NO
L0006749 0 0.28653E-02 731218.1 4053135.5 66.9 3.40 4.00
3.16 NO NO
L0006750 0 0.28653E-02 731218.3 4053126.9 66.9 3.40 4.00
3.16 NO NO
L0006751 0 0.28653E-02 731218.5 4053118.3 66.9 3.40 4.00
3.16 NO NO
L0006752 0 0.28653E-02 731218.7 4053109.7 67.0 3.40 4.00
3.16 NO NO
L0006753 0 0.28653E-02 731218.9 4053101.1 67.0 3.40 4.00
3.16 NO NO
L0006754 0 0.28653E-02 731219.1 4053092.5 67.0 3.40 4.00
3.16 NO NO
L0006755 0 0.28653E-02 731219.3 4053083.9 67.0 3.40 4.00
3.16 NO NO
L0006756 0 0.28653E-02 731219.5 4053075.3 67.0 3.40 4.00
3.16 NO NO
L0006757 0 0.28653E-02 731219.7 4053066.7 67.1 3.40 4.00
3.16 NO NO
L0006758 0 0.28653E-02 731219.9 4053058.1 67.1 3.40 4.00
3.16 NO NO
L0006759 0 0.28653E-02 731220.1 4053049.5 67.1 3.40 4.00
3.16 NO NO
L0006760 0 0.28653E-02 731220.3 4053040.9 67.2 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT EMISSION RATE SCALAR VARY
L0006761	0	0.28653E-02	731220.6	4053032.3	67.2	3.40	4.00			

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3.16     NO                    NO
 L0006762         0   0.28653E-02  731220.8 4053023.7    67.2     3.40     4.00
3.16     NO                    NO
 L0006763         0   0.28653E-02  731221.0 4053015.1    67.2     3.40     4.00
3.16     NO                    NO
 L0006764         0   0.28653E-02  731221.2 4053006.5    67.2     3.40     4.00
3.16     NO                    NO
 L0006765         0   0.28653E-02  731221.4 4052997.9    67.3     3.40     4.00
3.16     NO                    NO
 L0006766         0   0.28653E-02  731221.6 4052989.3    67.3     3.40     4.00
3.16     NO                    NO
 L0006767         0   0.28653E-02  731221.8 4052980.8    67.3     3.40     4.00
3.16     NO                    NO
 L0006768         0   0.28653E-02  731222.0 4052972.2    67.3     3.40     4.00
3.16     NO                    NO
 L0006769         0   0.28653E-02  731222.2 4052963.6    67.4     3.40     4.00
3.16     NO                    NO
 L0006770         0   0.28653E-02  731222.4 4052955.0    67.4     3.40     4.00
3.16     NO                    NO
 L0006771         0   0.28653E-02  731222.6 4052946.4    67.4     3.40     4.00
3.16     NO                    NO
 L0006772         0   0.28653E-02  731222.8 4052937.8    67.5     3.40     4.00
3.16     NO                    NO
 L0006773         0   0.28653E-02  731223.0 4052929.2    67.5     3.40     4.00
3.16     NO                    NO
 L0006774         0   0.28653E-02  731223.3 4052920.6    67.5     3.40     4.00
3.16     NO                    NO
 L0006775         0   0.28653E-02  731223.5 4052912.0    67.5     3.40     4.00
3.16     NO                    NO
 L0006776         0   0.28653E-02  731223.7 4052903.4    67.6     3.40     4.00
3.16     NO                    NO
 L0006777         0   0.28653E-02  731223.9 4052894.8    67.6     3.40     4.00
3.16     NO                    NO
 L0006778         0   0.28653E-02  731224.1 4052886.2    67.6     3.40     4.00
3.16     NO                    NO
 L0006779         0   0.28653E-02  731224.3 4052877.6    67.6     3.40     4.00
3.16     NO                    NO
 L0006780         0   0.28653E-02  731224.5 4052869.0    67.7     3.40     4.00
3.16     NO                    NO
 L0006781         0   0.28653E-02  731224.7 4052860.4    67.7     3.40     4.00
3.16     NO                    NO
 L0006782         0   0.28653E-02  731224.9 4052851.8    67.7     3.40     4.00
3.16     NO                    NO
 L0006783         0   0.28653E-02  731225.1 4052843.2    67.7     3.40     4.00
3.16     NO                    NO
 L0006784         0   0.28653E-02  731226.2 4052835.5    67.7     3.40     4.00
3.16     NO                    NO
 L0006785         0   0.28653E-02  731234.8 4052835.6    67.7     3.40     4.00
3.16     NO                    NO
 L0006786         0   0.28653E-02  731243.4 4052835.7    67.7     3.40     4.00
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3.16 NO NO
L0006787 0 0.28653E-02 731252.0 4052835.8 67.7 3.40 4.00
3.16 NO NO
L0006788 0 0.28653E-02 731260.6 4052835.9 67.7 3.40 4.00
3.16 NO NO
L0006789 0 0.28653E-02 731269.2 4052836.0 67.7 3.40 4.00
3.16 NO NO
L0006790 0 0.28653E-02 731277.8 4052836.1 67.6 3.40 4.00
3.16 NO NO
L0006791 0 0.28653E-02 731286.4 4052836.2 67.6 3.40 4.00
3.16 NO NO
L0006792 0 0.28653E-02 731295.0 4052836.3 67.6 3.40 4.00
3.16 NO NO
L0006793 0 0.28653E-02 731303.6 4052836.4 67.6 3.40 4.00
3.16 NO NO
L0006794 0 0.28653E-02 731312.2 4052836.5 67.6 3.40 4.00
3.16 NO NO
L0006795 0 0.28653E-02 731320.8 4052836.6 67.6 3.40 4.00
3.16 NO NO
L0006796 0 0.28653E-02 731329.4 4052836.8 67.5 3.40 4.00
3.16 NO NO
L0006797 0 0.28653E-02 731338.0 4052836.9 67.5 3.40 4.00
3.16 NO NO
L0006798 0 0.28653E-02 731346.6 4052837.0 67.5 3.40 4.00
3.16 NO NO
L0006799 0 0.28653E-02 731355.2 4052837.1 67.5 3.40 4.00
3.16 NO NO
L0006800 0 0.28653E-02 731363.8 4052837.2 67.5 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	EMISSION RATE SCALAR VARY	AIRCRAFT
L0006801	0	0.28653E-02	731372.4	4052837.3	67.5	3.40	4.00				

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3.16     NO                    NO
 L0006802         0   0.28653E-02  731381.0 4052837.4    67.4     3.40     4.00
3.16     NO                    NO
 L0006803         0   0.28653E-02  731389.6 4052837.5    67.4     3.40     4.00
3.16     NO                    NO
 L0006804         0   0.28653E-02  731398.2 4052837.6    67.4     3.40     4.00
3.16     NO                    NO
 L0006805         0   0.28653E-02  731406.8 4052837.7    67.4     3.40     4.00
3.16     NO                    NO
 L0006806         0   0.28653E-02  731415.4 4052837.8    67.4     3.40     4.00
3.16     NO                    NO
 L0006807         0   0.28653E-02  731424.0 4052837.9    67.3     3.40     4.00
3.16     NO                    NO
 L0006808         0   0.28653E-02  731432.6 4052838.0    67.3     3.40     4.00
3.16     NO                    NO
 L0006809         0   0.28653E-02  731441.2 4052838.1    67.3     3.40     4.00
3.16     NO                    NO
 L0006810         0   0.28653E-02  731449.8 4052838.2    67.3     3.40     4.00
3.16     NO                    NO
 L0006811         0   0.28653E-02  731458.4 4052838.3    67.3     3.40     4.00
3.16     NO                    NO
 L0006812         0   0.28653E-02  731467.0 4052838.4    67.3     3.40     4.00
3.16     NO                    NO
 L0006813         0   0.28653E-02  731475.6 4052838.5    67.2     3.40     4.00
3.16     NO                    NO
 L0006814         0   0.28653E-02  731484.2 4052838.6    67.2     3.40     4.00
3.16     NO                    NO
 L0006815         0   0.28653E-02  731492.8 4052838.7    67.2     3.40     4.00
3.16     NO                    NO
 L0006816         0   0.28653E-02  731501.4 4052838.8    67.1     3.40     4.00
3.16     NO                    NO
 L0006817         0   0.28653E-02  731510.0 4052838.9    67.1     3.40     4.00
3.16     NO                    NO
 L0006818         0   0.28653E-02  731518.6 4052839.0    67.1     3.40     4.00
3.16     NO                    NO
 L0006819         0   0.28653E-02  731527.2 4052839.1    67.1     3.40     4.00
3.16     NO                    NO
 L0006820         0   0.28653E-02  731535.8 4052839.2    67.1     3.40     4.00
3.16     NO                    NO
 L0006821         0   0.28653E-02  731544.4 4052839.3    67.1     3.40     4.00
3.16     NO                    NO
 L0006822         0   0.28653E-02  731553.0 4052839.4    67.0     3.40     4.00
3.16     NO                    NO
 L0006823         0   0.28653E-02  731561.6 4052839.5    67.0     3.40     4.00
3.16     NO                    NO
 L0006824         0   0.28653E-02  731570.2 4052839.7    67.0     3.40     4.00
3.16     NO                    NO
 L0006825         0   0.28653E-02  731578.8 4052839.8    67.0     3.40     4.00
3.16     NO                    NO
 L0006826         0   0.28653E-02  731587.4 4052839.9    67.0     3.40     4.00
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3.16   NO   NO
 L0006827   0   0.28653E-02 731596.0 4052840.0   67.0   3.40   4.00
3.16   NO   NO
 L0006828   0   0.28653E-02 731604.6 4052840.1   66.9   3.40   4.00
3.16   NO   NO
 L0006829   0   0.28653E-02 731613.2 4052840.2   66.9   3.40   4.00
3.16   NO   NO
 L0006830   0   0.28653E-02 731621.8 4052840.3   66.9   3.40   4.00
3.16   NO   NO
 L0006831   0   0.28653E-02 731630.4 4052840.4   66.8   3.40   4.00
3.16   NO   NO
 L0006832   0   0.28653E-02 731639.0 4052840.5   66.8   3.40   4.00
3.16   NO   NO
 L0006833   0   0.28653E-02 731647.6 4052840.6   66.8   3.40   4.00
3.16   NO   NO
 L0006834   0   0.28653E-02 731656.2 4052840.7   66.8   3.40   4.00
3.16   NO   NO
 L0006835   0   0.28653E-02 731664.8 4052840.8   66.8   3.40   4.00
3.16   NO   NO
 L0006836   0   0.28653E-02 731673.4 4052840.9   66.8   3.40   4.00
3.16   NO   NO
 L0006837   0   0.28653E-02 731682.0 4052841.0   66.7   3.40   4.00
3.16   NO   NO
 L0006838   0   0.28653E-02 731690.6 4052841.1   66.7   3.40   4.00
3.16   NO   NO
 L0006839   0   0.28653E-02 731699.2 4052841.2   66.7   3.40   4.00
3.16   NO   NO
 L0006840   0   0.28653E-02 731707.8 4052841.3   66.7   3.40   4.00
3.16   NO   NO

                                                    *** VOLUME SOURCE DATA ***

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

 L0006841   0   0.28653E-02 731716.4 4052841.4   66.6   3.40   4.00

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3.16     NO                    NO
 L0006842         0   0.28653E-02  731725.0 4052841.5    66.6     3.40     4.00
3.16     NO                    NO
 L0006843         0   0.28653E-02  731733.6 4052841.6    66.6     3.40     4.00
3.16     NO                    NO
 L0006844         0   0.28653E-02  731742.2 4052841.7    66.6     3.40     4.00
3.16     NO                    NO
 L0006845         0   0.28653E-02  731750.8 4052841.8    66.5     3.40     4.00
3.16     NO                    NO
 L0006846         0   0.28653E-02  731759.4 4052841.9    66.5     3.40     4.00
3.16     NO                    NO
 L0006847         0   0.28653E-02  731768.0 4052842.0    66.5     3.40     4.00
3.16     NO                    NO
 L0006848         0   0.28653E-02  731776.6 4052842.1    66.5     3.40     4.00
3.16     NO                    NO
 L0006849         0   0.28653E-02  731785.2 4052842.2    66.5     3.40     4.00
3.16     NO                    NO
 L0006850         0   0.28653E-02  731793.8 4052842.3    66.5     3.40     4.00
3.16     NO                    NO
 L0006851         0   0.28653E-02  731802.4 4052842.4    66.5     3.40     4.00
3.16     NO                    NO
 L0006852         0   0.28653E-02  731811.0 4052842.6    66.4     3.40     4.00
3.16     NO                    NO
 L0006853         0   0.28653E-02  731819.6 4052842.7    66.4     3.40     4.00
3.16     NO                    NO
 L0006854         0   0.28653E-02  731828.2 4052842.8    66.4     3.40     4.00
3.16     NO                    NO
 L0006855         0   0.28653E-02  731836.8 4052842.9    66.3     3.40     4.00
3.16     NO                    NO
 L0006856         0   0.28653E-02  731845.4 4052843.0    66.3     3.40     4.00
3.16     NO                    NO
 L0006857         0   0.28653E-02  731854.0 4052843.1    66.3     3.40     4.00
3.16     NO                    NO
 L0006858         0   0.28653E-02  731862.6 4052843.2    66.3     3.40     4.00
3.16     NO                    NO
 L0006859         0   0.28653E-02  731871.2 4052843.3    66.3     3.40     4.00
3.16     NO                    NO
 L0006860         0   0.28653E-02  731879.8 4052843.4    66.3     3.40     4.00
3.16     NO                    NO
 L0006861         0   0.28653E-02  731888.4 4052843.5    66.3     3.40     4.00
3.16     NO                    NO
 L0006862         0   0.28653E-02  731897.0 4052843.6    66.3     3.40     4.00
3.16     NO                    NO
 L0006863         0   0.28653E-02  731905.6 4052843.7    66.2     3.40     4.00
3.16     NO                    NO
 L0006864         0   0.28653E-02  731914.2 4052843.8    66.2     3.40     4.00
3.16     NO                    NO
 L0006865         0   0.28653E-02  731922.8 4052843.9    66.2     3.40     4.00
3.16     NO                    NO
 L0006866         0   0.28653E-02  731931.4 4052844.0    66.2     3.40     4.00
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3.16   NO   NO
 L0006867   0   0.28653E-02 731940.0 4052844.1   66.3   3.40   4.00
3.16   NO   NO
 L0006868   0   0.28653E-02 731948.6 4052844.2   66.3   3.40   4.00
3.16   NO   NO
 L0006869   0   0.28653E-02 731957.2 4052844.3   66.3   3.40   4.00
3.16   NO   NO
 L0006870   0   0.28653E-02 731965.8 4052844.4   66.3   3.40   4.00
3.16   NO   NO
 L0006871   0   0.28653E-02 731974.4 4052844.5   66.3   3.40   4.00
3.16   NO   NO
 L0006872   0   0.28653E-02 731983.0 4052844.6   66.3   3.40   4.00
3.16   NO   NO
 L0006873   0   0.28653E-02 731991.6 4052844.7   66.3   3.40   4.00
3.16   NO   NO
 L0006874   0   0.28653E-02 732000.2 4052844.8   66.3   3.40   4.00
3.16   NO   NO
 L0006875   0   0.28653E-02 732008.8 4052844.9   66.2   3.40   4.00
3.16   NO   NO
 L0006876   0   0.28653E-02 732017.4 4052845.0   66.2   3.40   4.00
3.16   NO   NO
 L0006877   0   0.28653E-02 732026.0 4052845.1   66.2   3.40   4.00
3.16   NO   NO
 L0006878   0   0.28653E-02 732034.6 4052845.2   66.2   3.40   4.00
3.16   NO   NO
 L0006879   0   0.28653E-02 732043.2 4052845.4   66.1   3.40   4.00
3.16   NO   NO
 L0006880   0   0.28653E-02 732051.8 4052845.5   66.1   3.40   4.00
3.16   NO   NO

                                                    *** VOLUME SOURCE DATA ***

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

 L0006881   0   0.28653E-02 732060.3 4052845.6   66.1   3.40   4.00

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3.16     NO                    NO
 L0006882         0   0.28653E-02  732068.9 4052845.7    66.1     3.40     4.00
3.16     NO                    NO
 L0006883         0   0.28653E-02  732077.5 4052845.8    66.0     3.40     4.00
3.16     NO                    NO
 L0006884         0   0.28653E-02  732086.1 4052845.9    66.0     3.40     4.00
3.16     NO                    NO
 L0006885         0   0.28653E-02  732094.7 4052846.0    66.0     3.40     4.00
3.16     NO                    NO
 L0006886         0   0.28653E-02  732103.3 4052846.1    66.0     3.40     4.00
3.16     NO                    NO
 L0006887         0   0.28653E-02  732111.9 4052846.2    65.9     3.40     4.00
3.16     NO                    NO
 L0006888         0   0.28653E-02  732120.5 4052846.3    65.9     3.40     4.00
3.16     NO                    NO
 L0006889         0   0.28653E-02  732129.1 4052846.4    65.9     3.40     4.00
3.16     NO                    NO
 L0006890         0   0.28653E-02  732137.7 4052846.5    65.9     3.40     4.00
3.16     NO                    NO
 L0006891         0   0.28653E-02  732146.3 4052846.6    65.9     3.40     4.00
3.16     NO                    NO
 L0006892         0   0.28653E-02  732154.9 4052846.7    65.8     3.40     4.00
3.16     NO                    NO
 L0006893         0   0.28653E-02  732163.5 4052846.8    65.8     3.40     4.00
3.16     NO                    NO
 L0006894         0   0.28653E-02  732172.1 4052846.9    65.8     3.40     4.00
3.16     NO                    NO
 L0006895         0   0.28653E-02  732180.7 4052847.0    65.8     3.40     4.00
3.16     NO                    NO
 L0006896         0   0.28653E-02  732189.3 4052847.1    65.8     3.40     4.00
3.16     NO                    NO
 L0006897         0   0.28653E-02  732197.9 4052847.2    65.8     3.40     4.00
3.16     NO                    NO
 L0006898         0   0.28653E-02  732206.5 4052847.3    65.8     3.40     4.00
3.16     NO                    NO
 L0006899         0   0.28653E-02  732215.1 4052847.4    65.8     3.40     4.00
3.16     NO                    NO
 L0006900         0   0.28653E-02  732223.7 4052847.5    65.8     3.40     4.00
3.16     NO                    NO
 L0006901         0   0.28653E-02  732232.3 4052847.6    65.7     3.40     4.00
3.16     NO                    NO
 L0006902         0   0.28653E-02  732240.9 4052847.7    65.7     3.40     4.00
3.16     NO                    NO
 L0006903         0   0.28653E-02  732249.5 4052847.8    65.7     3.40     4.00
3.16     NO                    NO
 L0006904         0   0.28653E-02  732258.1 4052847.9    65.7     3.40     4.00
3.16     NO                    NO
 L0006905         0   0.28653E-02  732266.7 4052848.0    65.6     3.40     4.00
3.16     NO                    NO
 L0006906         0   0.28653E-02  732275.3 4052848.1    65.6     3.40     4.00
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3.16     NO                     NO
 L0006907         0   0.28653E-02  732283.9 4052848.3    65.6     3.40     4.00
3.16     NO                     NO
 L0006908         0   0.28653E-02  732292.5 4052848.4    65.6     3.40     4.00
3.16     NO                     NO
 L0006909         0   0.28653E-02  732300.1 4052847.4    65.6     3.40     4.00
3.16     NO                     NO
 L0006910         0   0.28653E-02  732300.1 4052838.8    65.6     3.40     4.00
3.16     NO                     NO
 L0006911         0   0.28653E-02  732300.1 4052830.2    65.6     3.40     4.00
3.16     NO                     NO
 L0006912         0   0.28653E-02  732300.1 4052821.6    65.7     3.40     4.00
3.16     NO                     NO
 L0006913         0   0.28653E-02  732300.1 4052813.0    65.7     3.40     4.00
3.16     NO                     NO
 L0006914         0   0.28653E-02  732300.1 4052804.4    65.7     3.40     4.00
3.16     NO                     NO
 L0006915         0   0.77519E-02  732270.1 4052814.6    65.8     3.40     4.00
3.16     NO                     NO
 L0006916         0   0.77519E-02  732270.7 4052806.0    65.8     3.40     4.00
3.16     NO                     NO
 L0006917         0   0.77519E-02  732271.4 4052797.4    65.8     3.40     4.00
3.16     NO                     NO
 L0006918         0   0.77519E-02  732272.0 4052788.8    65.8     3.40     4.00
3.16     NO                     NO
 L0006919         0   0.77519E-02  732272.7 4052780.3    65.9     3.40     4.00
3.16     NO                     NO
 L0006920         0   0.77519E-02  732273.3 4052771.7    65.9     3.40     4.00
3.16     NO                     NO
↟ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

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

 L0006921         0   0.77519E-02  732273.9 4052763.1    65.9     3.40     4.00
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3.16     NO                    NO
 L0006922         0   0.77519E-02  732274.6 4052754.5    65.9     3.40     4.00
3.16     NO                    NO
 L0006923         0   0.77519E-02  732275.2 4052746.0    66.0     3.40     4.00
3.16     NO                    NO
 L0006924         0   0.77519E-02  732275.8 4052737.4    66.0     3.40     4.00
3.16     NO                    NO
 L0006925         0   0.77519E-02  732276.5 4052728.8    66.0     3.40     4.00
3.16     NO                    NO
 L0006926         0   0.77519E-02  732277.1 4052720.2    66.0     3.40     4.00
3.16     NO                    NO
 L0006927         0   0.77519E-02  732277.7 4052711.6    66.1     3.40     4.00
3.16     NO                    NO
 L0006928         0   0.77519E-02  732278.4 4052703.1    66.1     3.40     4.00
3.16     NO                    NO
 L0006929         0   0.77519E-02  732279.0 4052694.5    66.1     3.40     4.00
3.16     NO                    NO
 L0006930         0   0.77519E-02  732279.6 4052685.9    66.2     3.40     4.00
3.16     NO                    NO
 L0006931         0   0.77519E-02  732284.9 4052682.5    66.2     3.40     4.00
3.16     NO                    NO
 L0006932         0   0.77519E-02  732293.5 4052682.7    66.2     3.40     4.00
3.16     NO                    NO
 L0006933         0   0.77519E-02  732302.1 4052683.0    66.1     3.40     4.00
3.16     NO                    NO
 L0006934         0   0.77519E-02  732310.7 4052683.2    66.1     3.40     4.00
3.16     NO                    NO
 L0006935         0   0.77519E-02  732319.3 4052683.5    66.1     3.40     4.00
3.16     NO                    NO
 L0006936         0   0.77519E-02  732327.9 4052683.7    66.1     3.40     4.00
3.16     NO                    NO
 L0006937         0   0.77519E-02  732336.5 4052684.0    66.1     3.40     4.00
3.16     NO                    NO
 L0006938         0   0.77519E-02  732345.1 4052684.2    66.1     3.40     4.00
3.16     NO                    NO
 L0006939         0   0.77519E-02  732353.6 4052684.5    66.0     3.40     4.00
3.16     NO                    NO
 L0006940         0   0.77519E-02  732362.2 4052684.7    66.0     3.40     4.00
3.16     NO                    NO
 L0006941         0   0.77519E-02  732370.8 4052685.0    66.0     3.40     4.00
3.16     NO                    NO
 L0006942         0   0.77519E-02  732378.9 4052685.7    66.0     3.40     4.00
3.16     NO                    NO
 L0006943         0   0.77519E-02  732378.2 4052694.3    66.0     3.40     4.00
3.16     NO                    NO
 L0006944         0   0.77519E-02  732377.6 4052702.8    65.9     3.40     4.00
3.16     NO                    NO
 L0006945         0   0.77519E-02  732376.9 4052711.4    65.9     3.40     4.00
3.16     NO                    NO
 L0006946         0   0.77519E-02  732376.3 4052720.0    65.9     3.40     4.00
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3.16 NO NO
L0006947 0 0.77519E-02 732375.6 4052728.6 65.9 3.40 4.00
3.16 NO NO
L0006948 0 0.77519E-02 732375.0 4052737.1 65.8 3.40 4.00
3.16 NO NO
L0006949 0 0.77519E-02 732374.3 4052745.7 65.8 3.40 4.00
3.16 NO NO
L0006950 0 0.77519E-02 732373.6 4052754.3 65.8 3.40 4.00
3.16 NO NO
L0006951 0 0.77519E-02 732373.0 4052762.9 65.8 3.40 4.00
3.16 NO NO
L0006952 0 0.77519E-02 732372.3 4052771.4 65.7 3.40 4.00
3.16 NO NO
L0006953 0 0.77519E-02 732371.7 4052780.0 65.7 3.40 4.00
3.16 NO NO
L0006954 0 0.77519E-02 732371.0 4052788.6 65.7 3.40 4.00
3.16 NO NO
L0006955 0 0.77519E-02 732370.4 4052797.2 65.6 3.40 4.00
3.16 NO NO
L0006956 0 0.77519E-02 732369.7 4052805.7 65.6 3.40 4.00
3.16 NO NO
L0006957 0 0.77519E-02 732369.0 4052814.3 65.6 3.40 4.00
3.16 NO NO
L0006958 0 0.77519E-02 732368.4 4052822.9 65.5 3.40 4.00
3.16 NO NO
L0006959 0 0.77519E-02 732360.1 4052822.7 65.5 3.40 4.00
3.16 NO NO
L0006960 0 0.77519E-02 732351.5 4052822.3 65.6 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	AIRCRAFT SCALAR VARY BY
L0006961	0	0.77519E-02	732342.9	4052821.8	65.6	3.40	4.00			

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3.16     NO                    NO
 L0006962         0   0.77519E-02  732334.3 4052821.4    65.6     3.40     4.00
3.16     NO                    NO
 L0006963         0   0.77519E-02  732325.7 4052820.9    65.6     3.40     4.00
3.16     NO                    NO
 L0006964         0   0.77519E-02  732317.1 4052820.5    65.6     3.40     4.00
3.16     NO                    NO
 L0006965         0   0.77519E-02  732308.5 4052820.0    65.6     3.40     4.00
3.16     NO                    NO
 L0006966         0   0.77519E-02  732299.9 4052819.6    65.7     3.40     4.00
3.16     NO                    NO
 L0006967         0   0.77519E-02  732291.4 4052819.2    65.7     3.40     4.00
3.16     NO                    NO
 L0006968         0   0.77519E-02  732285.9 4052816.0    65.7     3.40     4.00
3.16     NO                    NO
 L0006969         0   0.77519E-02  732286.5 4052807.4    65.8     3.40     4.00
3.16     NO                    NO
 L0006970         0   0.77519E-02  732287.2 4052798.8    65.8     3.40     4.00
3.16     NO                    NO
 L0006971         0   0.77519E-02  732287.8 4052790.2    65.8     3.40     4.00
3.16     NO                    NO
 L0006972         0   0.77519E-02  732288.4 4052781.7    65.8     3.40     4.00
3.16     NO                    NO
 L0006973         0   0.77519E-02  732289.1 4052773.1    65.8     3.40     4.00
3.16     NO                    NO
 L0006974         0   0.77519E-02  732289.7 4052764.5    65.9     3.40     4.00
3.16     NO                    NO
 L0006975         0   0.77519E-02  732290.4 4052755.9    65.9     3.40     4.00
3.16     NO                    NO
 L0006976         0   0.77519E-02  732291.0 4052747.3    65.9     3.40     4.00
3.16     NO                    NO
 L0006977         0   0.77519E-02  732291.6 4052738.8    66.0     3.40     4.00
3.16     NO                    NO
 L0006978         0   0.77519E-02  732292.3 4052730.2    66.0     3.40     4.00
3.16     NO                    NO
 L0006979         0   0.77519E-02  732292.9 4052721.6    66.0     3.40     4.00
3.16     NO                    NO
 L0006980         0   0.77519E-02  732293.5 4052713.0    66.0     3.40     4.00
3.16     NO                    NO
 L0006981         0   0.77519E-02  732294.2 4052704.5    66.1     3.40     4.00
3.16     NO                    NO
 L0006982         0   0.77519E-02  732295.2 4052696.3    66.1     3.40     4.00
3.16     NO                    NO
 L0006983         0   0.77519E-02  732303.8 4052696.6    66.1     3.40     4.00
3.16     NO                    NO
 L0006984         0   0.77519E-02  732312.3 4052697.0    66.1     3.40     4.00
3.16     NO                    NO
 L0006985         0   0.77519E-02  732320.9 4052697.4    66.1     3.40     4.00
3.16     NO                    NO
 L0006986         0   0.77519E-02  732329.5 4052697.7    66.1     3.40     4.00
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3.16 NO NO
L0006987 0 0.77519E-02 732338.1 4052698.1 66.0 3.40 4.00
3.16 NO NO
L0006988 0 0.77519E-02 732346.7 4052698.4 66.0 3.40 4.00
3.16 NO NO
L0006989 0 0.77519E-02 732355.3 4052698.8 66.0 3.40 4.00
3.16 NO NO
L0006990 0 0.77519E-02 732363.0 4052700.0 66.0 3.40 4.00
3.16 NO NO
L0006991 0 0.77519E-02 732362.2 4052708.5 65.9 3.40 4.00
3.16 NO NO
L0006992 0 0.77519E-02 732361.3 4052717.1 65.9 3.40 4.00
3.16 NO NO
L0006993 0 0.77519E-02 732360.5 4052725.6 65.9 3.40 4.00
3.16 NO NO
L0006994 0 0.77519E-02 732359.7 4052734.2 65.8 3.40 4.00
3.16 NO NO
L0006995 0 0.77519E-02 732358.8 4052742.8 65.8 3.40 4.00
3.16 NO NO
L0006996 0 0.77519E-02 732358.0 4052751.3 65.8 3.40 4.00
3.16 NO NO
L0006997 0 0.77519E-02 732357.2 4052759.9 65.8 3.40 4.00
3.16 NO NO
L0006998 0 0.77519E-02 732356.4 4052768.4 65.7 3.40 4.00
3.16 NO NO
L0006999 0 0.77519E-02 732355.5 4052777.0 65.7 3.40 4.00
3.16 NO NO
L0007000 0 0.77519E-02 732354.7 4052785.6 65.7 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	EMISSION RATE SCALAR VARY	AIRCRAFT
L0007001	0	0.77519E-02	732353.9	4052794.1	65.6	3.40	4.00				

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3.16     NO                    NO
 L0007002         0   0.77519E-02  732353.0 4052802.7    65.6     3.40     4.00
3.16     NO                    NO
 L0007003         0   0.77519E-02  732349.5 4052808.1    65.6     3.40     4.00
3.16     NO                    NO
 L0007004         0   0.77519E-02  732340.9 4052807.6    65.6     3.40     4.00
3.16     NO                    NO
 L0007005         0   0.77519E-02  732332.3 4052807.1    65.7     3.40     4.00
3.16     NO                    NO
 L0007006         0   0.77519E-02  732323.8 4052806.6    65.7     3.40     4.00
3.16     NO                    NO
 L0007007         0   0.77519E-02  732315.2 4052806.1    65.7     3.40     4.00
3.16     NO                    NO
 L0007008         0   0.77519E-02  732306.6 4052805.6    65.7     3.40     4.00
3.16     NO                    NO
 L0007009         0   0.77519E-02  732302.8 4052800.9    65.7     3.40     4.00
3.16     NO                    NO
 L0007010         0   0.77519E-02  732303.3 4052792.3    65.8     3.40     4.00
3.16     NO                    NO
 L0007011         0   0.77519E-02  732303.8 4052783.7    65.8     3.40     4.00
3.16     NO                    NO
 L0007012         0   0.77519E-02  732304.3 4052775.1    65.8     3.40     4.00
3.16     NO                    NO
 L0007013         0   0.77519E-02  732304.9 4052766.6    65.8     3.40     4.00
3.16     NO                    NO
 L0007014         0   0.77519E-02  732305.4 4052758.0    65.8     3.40     4.00
3.16     NO                    NO
 L0007015         0   0.77519E-02  732305.9 4052749.4    65.9     3.40     4.00
3.16     NO                    NO
 L0007016         0   0.77519E-02  732306.4 4052740.8    65.9     3.40     4.00
3.16     NO                    NO
 L0007017         0   0.77519E-02  732307.0 4052732.2    65.9     3.40     4.00
3.16     NO                    NO
 L0007018         0   0.77519E-02  732307.5 4052723.6    66.0     3.40     4.00
3.16     NO                    NO
 L0007019         0   0.77519E-02  732308.0 4052715.1    66.0     3.40     4.00
3.16     NO                    NO
 L0007020         0   0.77519E-02  732312.9 4052711.3    66.0     3.40     4.00
3.16     NO                    NO
 L0007021         0   0.77519E-02  732321.5 4052711.5    66.0     3.40     4.00
3.16     NO                    NO
 L0007022         0   0.77519E-02  732330.1 4052711.7    66.0     3.40     4.00
3.16     NO                    NO
 L0007023         0   0.77519E-02  732338.7 4052711.9    66.0     3.40     4.00
3.16     NO                    NO
 L0007024         0   0.77519E-02  732347.2 4052712.3    66.0     3.40     4.00
3.16     NO                    NO
 L0007025         0   0.77519E-02  732346.2 4052720.8    65.9     3.40     4.00
3.16     NO                    NO
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3.16 NO NO
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3.16 NO NO
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3.16 NO NO
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3.16 NO NO
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3.16 NO NO
L0007040 0 0.77519E-02 732320.5 4052761.1 65.8 3.40 4.00
3.16 NO NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE BY	AIRCRAFT EMISSION RATE SCALAR VARY
L0007041	0	0.77519E-02	732321.2	4052752.5	65.9	3.40	4.00			

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID   SOURCE IDs
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L0000022   , L0000023   , L0000024   ,

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L0000038   , L0000039   , L0000040   ,

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*** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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L0000390 , L0000391 , L0000392 ,

L0000393 , L0000394 , L0000395 , L0000396 , L0000397 ,
L0000398 , L0000399 , L0000400 ,

L0000401 , L0000402 , L0000403 , L0000404 , L0000405 ,
L0000406 , L0000407 , L0000408 ,

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 *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE 182
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                          SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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	L0000649 , L0000650 , L0000651 , L0000652 , L0000653 , L0000654 , L0000655 , L0000656 ,
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	L0000665 , L0000666 , L0000667 , L0000668 , L0000669 , L0000670 , L0000671 , L0000672 ,
	L0000673 , L0000674 , L0000675 , L0000676 , L0000677 , L0000678 , L0000679 , L0000680 ,
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↟ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE 184
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                          SOURCE IDs
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 *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID   SOURCE IDs
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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 *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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 *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                      ***       10:07:44
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                *** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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 *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID   SOURCE IDs
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WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE 197
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** SOURCE IDs DEFINING SOURCE GROUPS ***

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WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE 199
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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 *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE 201
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                              *** SOURCE IDs DEFINING SOURCE GROUPS ***

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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

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 *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                      ***        10:07:44

                                  PAGE 203
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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↟ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE 205
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                          SOURCE IDs
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

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↟ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                        *** SOURCE IDs DEFINING SOURCE GROUPS ***

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 *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                      ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

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 *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** SOURCE IDs DEFINING SOURCE GROUPS ***

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WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
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                                  PAGE 218
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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 *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE 220
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                *** SOURCE IDs DEFINING SOURCE GROUPS ***
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↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
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                                  PAGE 222
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


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L0007008 , L0007009 , L0007010 ,

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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	L0007043 ,
ALL	L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 ,
	L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 ,
	L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 ,
	L0000025 , L0000026 , L0000027 , L0000028 , L0000029 , L0000030 , L0000031 , L0000032 ,
	L0000033 , L0000034 , L0000035 , L0000036 , L0000037 , L0000038 , L0000039 , L0000040 ,
	L0000041 , L0000042 , L0000043 , L0000044 , L0000045 , L0000046 , L0000047 , L0000048 ,
	L0000049 , L0000050 , L0000051 , L0000052 , L0000053 , L0000054 , L0000055 , L0000056 ,

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L0000062    , L0000063    , L0000064    ,

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L0000070    , L0000071    , L0000072    ,

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

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

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

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

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

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L0000118    , L0000119    , L0000120    ,

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

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

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L0000142    , L0000143    , L0000144    ,
 *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
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                                  PAGE 224
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                          SOURCE IDs
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L0000166    , L0000167    , L0000168    ,

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L0000174    , L0000175    , L0000176    ,

             L0000177    , L0000178    , L0000179    , L0000180    , L0000181    ,
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L0000190    , L0000191    , L0000192    ,

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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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L0000318 , L0000319 , L0000320 ,

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L0000326 , L0000327 , L0000328 ,

L0000329 , L0000330 , L0000331 , L0000332 , L0000333 ,
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L0000382 , L0000383 , L0000384 ,

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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	L0000473 , L0000474 , L0000475 , L0000476 , L0000477 , L0000478 , L0000479 , L0000480 ,

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L0000574 , L0000575 , L0000576 ,

L0000577 , L0000578 , L0000579 , L0000580 , L0000581 ,
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L0000622   , L0000623   , L0000624   ,

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID   SOURCE IDs
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L0000638   , L0000639   , L0000640   ,

             L0000641   , L0000642   , L0000643   , L0000644   , L0000645   ,
L0000646   , L0000647   , L0000648   ,

             L0000649   , L0000650   , L0000651   , L0000652   , L0000653   ,
L0000654   , L0000655   , L0000656   ,

             L0000657   , L0000658   , L0000659   , L0000660   , L0000661   ,
L0000662   , L0000663   , L0000664   ,

             L0000665   , L0000666   , L0000667   , L0000668   , L0000669   ,
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             L0000673   , L0000674   , L0000675   , L0000676   , L0000677   ,
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L0000694   , L0000695   , L0000696   ,

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L0000702   , L0000703   , L0000704   ,

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L0000710   , L0000711   , L0000712   ,

             L0000713   , L0000714   , L0000715   , L0000716   , L0000717   ,
L0000718   , L0000719   , L0000720   ,

             L0000721   , L0000722   , L0000723   , L0000724   , L0000725   ,
L0000726   , L0000727   , L0000728   ,

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L0000782   , L0000783   , L0000784   ,

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID   SOURCE IDs
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             L0000793   , L0000794   , L0000795   , L0000796   , L0000797   ,
L0000798   , L0000799   , L0000800   ,

             L0000801   , L0000802   , L0000803   , L0000804   , L0000805   ,

L0000806 , L0000807 , L0000808 ,

L0000809 , L0000810 , L0000811 , L0000812 , L0000813 ,
L0000814 , L0000815 , L0000816 ,

L0000817 , L0000818 , L0000819 , L0000820 , L0000821 ,
L0000822 , L0000823 , L0000824 ,

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L0000833 , L0000834 , L0000835 , L0000836 , L0000837 ,
L0000838 , L0000839 , L0000840 ,

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L0000846 , L0000847 , L0000848 ,

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L0000862 , L0000863 , L0000864 ,

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L0000894 , L0000895 , L0000896 ,

L0000897 , L0000898 , L0000899 , L0000900 , L0000901 ,
L0000902 , L0000903 , L0000904 ,

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L0000910 , L0000911 , L0000912 ,

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L0000918 , L0000919 , L0000920 ,

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L0000934 , L0000935 , L0000936 ,

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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L0001022 , L0001023 , L0001024 ,

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L0001030 , L0001031 , L0001032 ,

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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	L0001281 , L0001282 , L0001283 , L0001284 , L0001285 , L0001286 , L0001287 , L0001288 ,
	L0001289 , L0001290 , L0001291 , L0001292 , L0001293 , L0001294 , L0001295 , L0001296 ,
	L0001297 , L0001298 , L0001299 , L0001300 , L0001301 , L0001302 , L0001303 , L0001304 ,
	L0001305 , L0001306 , L0001307 , L0001308 , L0001309 , L0001310 , L0001311 , L0001312 ,
	L0001313 , L0001314 , L0001315 , L0001316 , L0001317 , L0001318 , L0001319 , L0001320 ,
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	L0001329 , L0001330 , L0001331 , L0001332 , L0001333 , L0001334 , L0001335 , L0001336 ,
	L0001337 , L0001338 , L0001339 , L0001340 , L0001341 , L0001342 , L0001343 , L0001344 ,
	L0001345 , L0001346 , L0001347 , L0001348 , L0001349 , L0001350 , L0001351 , L0001352 ,
	L0001353 , L0001354 , L0001355 , L0001356 , L0001357 , L0001358 , L0001359 , L0001360 ,

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L0001382    , L0001383    , L0001384    ,

             L0001385    , L0001386    , L0001387    , L0001388    , L0001389    ,
L0001390    , L0001391    , L0001392    ,

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 *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                          SOURCE IDs
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L0001582    , L0001583    , L0001584    ,
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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	L0001593 , L0001594 , L0001595 , L0001596 , L0001597 , L0001598 , L0001599 , L0001600 ,
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID   SOURCE IDs
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WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***       10:07:44
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID   SOURCE IDs
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 *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                      ***       10:07:44
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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↟ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID   SOURCE IDs
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                *** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                   PAGE 243
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                *** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** SOURCE IDs DEFINING SOURCE GROUPS ***

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WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                      ***        10:07:44

                                  PAGE 245
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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 *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                          SOURCE IDs
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID   SOURCE IDs
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                *** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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 *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                          SOURCE IDs
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 *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

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 *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***       10:07:44
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** SOURCE IDs DEFINING SOURCE GROUPS ***

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 *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                      ***       10:07:44
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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↟ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE 264
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                *** SOURCE IDs DEFINING SOURCE GROUPS ***

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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                                *** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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

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 *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE 269
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

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

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

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

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

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

Surface file: ..\MENDOTA-MM5\MENDOTA_07-11.SFC
Met Version: 21112
Profile file: ..\MENDOTA-MM5\MENDOTA_07-11.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 99005 Upper air station no.: 66666
Name: UNKNOWN Name: UNKNOWN

Year: 2007 Year: 2007

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
07	01	01	1	01	-40.1	0.392	-9.000	-9.000	-999.	590.	169.4	0.10	0.59	1.00	5.10	291.	15.0	279.2	2.0
07	01	01	1	02	-40.1	0.392	-9.000	-9.000	-999.	590.	169.4	0.10	0.59	1.00	5.10	288.	15.0	278.9	2.0
07	01	01	1	03	-40.1	0.392	-9.000	-9.000	-999.	590.	169.4	0.10	0.59	1.00	5.10	294.	15.0	278.8	2.0
07	01	01	1	04	-40.1	0.392	-9.000	-9.000	-999.	590.	169.4	0.10	0.59	1.00	5.10	293.	15.0	278.5	2.0
07	01	01	1	05	-36.1	0.352	-9.000	-9.000	-999.	503.	136.7	0.10	0.59	1.00	4.60	293.	15.0	278.2	2.0

```
 07 01 01   1 06  -36.1  0.352 -9.000 -9.000 -999.  502.    136.7  0.10   0.59
1.00    4.60  292.   15.0  278.1    2.0
 07 01 01   1 07  -36.1  0.352 -9.000 -9.000 -999.  502.    136.7  0.10   0.59
1.00    4.60  295.   15.0  278.0    2.0
 07 01 01   1 08  -34.9  0.353 -9.000 -9.000 -999.  503.    136.8  0.10   0.59
0.66    4.60  293.   15.0  277.9    2.0
 07 01 01   1 09    7.7  0.384  0.216  0.010   47.  570.   -663.6  0.07   0.59
0.36    5.10  307.   15.0  279.5    2.0
 07 01 01   1 10   43.6  0.443  0.602  0.008  181.  706.   -180.6  0.07   0.59
0.25    5.70  321.   15.0  281.8    2.0
 07 01 01   1 11   70.1  0.451  0.892  0.008  367.  726.   -118.3  0.07   0.59
0.21    5.70  324.   15.0  283.5    2.0
 07 01 01   1 12   84.4  0.454  1.007  0.008  439.  735.   -100.7  0.07   0.59
0.20    5.70  316.   15.0  285.0    2.0
 07 01 01   1 13   85.7  0.374  1.051  0.010  491.  554.    -55.4  0.04   0.59
0.20    5.10  333.   15.0  286.2    2.0
 07 01 01   1 14   74.0  0.410  1.028  0.009  531.  631.    -84.6  0.07   0.59
0.21    5.10  329.   15.0  287.1    2.0
 07 01 01   1 15   49.8  0.369  0.915  0.010  557.  538.    -91.1  0.07   0.59
0.24    4.60  312.   15.0  287.4    2.0
 07 01 01   1 16   15.2  0.343  0.619  0.010  564.  482.   -239.7  0.10   0.59
0.33    4.10  284.   15.0  286.6    2.0
 07 01 01   1 17  -34.0  0.394 -9.000 -9.000 -999.  593.    170.6  0.10   0.59
0.59    5.10  271.   15.0  285.0    2.0
 07 01 01   1 18  -39.4  0.393 -9.000 -9.000 -999.  590.    169.5  0.10   0.59
1.00    5.10  277.   15.0  283.1    2.0
 07 01 01   1 19  -39.5  0.393 -9.000 -9.000 -999.  590.    169.5  0.10   0.59
1.00    5.10  284.   15.0  282.2    2.0
 07 01 01   1 20  -39.6  0.393 -9.000 -9.000 -999.  590.    169.5  0.10   0.59
1.00    5.10  287.   15.0  281.8    2.0
 07 01 01   1 21  -39.6  0.393 -9.000 -9.000 -999.  590.    169.5  0.10   0.59
1.00    5.10  290.   15.0  281.2    2.0
 07 01 01   1 22  -39.7  0.392 -9.000 -9.000 -999.  590.    169.5  0.10   0.59
1.00    5.10  292.   15.0  280.8    2.0
 07 01 01   1 23  -35.7  0.353 -9.000 -9.000 -999.  504.    136.7  0.10   0.59
1.00    4.60  290.   15.0  280.5    2.0
 07 01 01   1 24  -35.8  0.353 -9.000 -9.000 -999.  502.    136.7  0.10   0.59
1.00    4.60  290.   15.0  280.1    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 07 01 01 01   15.0 1  291.    5.10   279.3   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                      ***       10:07:44
```

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: CON ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
731866.30	4057450.99	0.55525	731868.18	4057319.52	0.47638
734159.24	4057371.01	0.63320	734159.87	4057344.71	0.63198
734219.36	4057346.59	0.60656	735182.33	4057279.09	0.35801
733510.32	4062608.38	0.05270	733490.02	4060492.51	0.27727
731054.88	4060409.49	0.42185	731096.39	4058804.51	0.43205
731857.37	4058832.18	1.65503	731898.88	4057199.53	0.42502
733116.45	4057241.04	1.53470	733116.45	4056825.95	1.00505
732729.04	4056812.12	0.71722	732742.88	4056397.04	0.93456
731926.55	4056383.20	0.46965	731968.06	4055580.71	0.75984
731124.06	4055566.87	0.39935	731165.57	4054695.20	0.26184
731968.06	4054709.04	0.92685	731954.22	4055179.46	1.42775
733573.04	4055193.30	1.09010			

                            *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: GENTIE   ***
                            INCLUDING SOURCE(S):   L0006566   , L0006567
, L0006568   , L0006569   , L0006570   ,
                 L0006571   , L0006572   , L0006573   , L0006574   , L0006575
, L0006576   , L0006577   , L0006578   ,
                 L0006579   , L0006580   , L0006581   , L0006582   , L0006583
, L0006584   , L0006585   , L0006586   ,
                 L0006587   , L0006588   , L0006589   , L0006590   , L0006591
, L0006592   , L0006593   , . . .   ,

                                    *** 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
 - - -

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: PGE ***
INCLUDING SOURCE(S): L0006915 , L0006916 , L0006917 , L0006918 , L0006919 ,
L0006920 , L0006921 , L0006922 , L0006923 , L0006924 , L0006925 , L0006926 , L0006927 ,
L0006928 , L0006929 , L0006930 , L0006931 , L0006932 , L0006933 , L0006934 , L0006935 ,
L0006936 , L0006937 , L0006938 , L0006939 , L0006940 , L0006941 , L0006942 , . . . ,

*** 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
731866.30	4057450.99	0.04978	731868.18	4057319.52	0.05205
734159.24	4057371.01	0.04061	734159.87	4057344.71	0.04086
734219.36	4057346.59	0.04028	735182.33	4057279.09	0.03467
733510.32	4062608.38	0.01500	733490.02	4060492.51	0.02076
731054.88	4060409.49	0.02407	731096.39	4058804.51	0.03467
731857.37	4058832.18	0.03329	731898.88	4057199.53	0.05410
733116.45	4057241.04	0.04575	733116.45	4056825.95	0.05243
732729.04	4056812.12	0.05637	732742.88	4056397.04	0.06582
731926.55	4056383.20	0.07446	731968.06	4055580.71	0.11074
731124.06	4055566.87	0.11088	731165.57	4054695.20	0.19640

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

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

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
731866.30	4057450.99	0.66359	731868.18	4057319.52	0.59013
734159.24	4057371.01	0.71666	734159.87	4057344.71	0.71601
734219.36	4057346.59	0.68958	735182.33	4057279.09	0.43080
733510.32	4062608.38	0.08349	733490.02	4060492.51	0.32099
731054.88	4060409.49	0.47286	731096.39	4058804.51	0.50714
731857.37	4058832.18	1.72579	731898.88	4057199.53	0.54375
733116.45	4057241.04	1.63294	733116.45	4056825.95	1.11862
732729.04	4056812.12	0.83958	732742.88	4056397.04	1.07918
731926.55	4056383.20	0.64019	731968.06		

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CON   ***
                                   INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

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

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        731866.30   4057450.99   19.63804 (08022208)   731868.18
4057319.52   19.19219 (08022208)
        734159.24   4057371.01   10.33266 (10010309)   734159.87
4057344.71   10.39855 (10010309)
        734219.36   4057346.59   10.14141 (10010309)   735182.33
4057279.09   9.89638 (11011309)
        733510.32   4062608.38   5.69188 (09022519)   733490.02
4060492.51   11.80746 (10022818)
        731054.88   4060409.49   15.35362 (10032018)   731096.39
4058804.51   22.57680 (08022208)
        731857.37   4058832.18   26.21815 (08022208)   731898.88
4057199.53   18.50334 (08022208)
        733116.45   4057241.04   19.71669 (11012917)   733116.45
4056825.95   19.69665 (08022208)

```
        732729.04   4056812.12       16.18793  (07110808)                732742.88
4056397.04       23.25163  (08022208)
        731926.55   4056383.20       11.86876  (11012617)                731968.06
4055580.71       24.71799  (08022208)
        731124.06   4055566.87       13.13282  (08022208)                731165.57
4054695.20       22.18914  (11030108)
        731968.06   4054709.04       13.80846  (07110408)                731954.22
4055179.46       23.13163  (08022208)
        733573.04   4055193.30       21.96860  (07110808)

 *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                   PAGE 276
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  GENTIE   ***
                                   INCLUDING SOURCE(S):     L0006566    , L0006567
, L0006568    , L0006569    , L0006570    ,
                  L0006571    , L0006572    , L0006573    , L0006574    , L0006575
, L0006576    , L0006577    , L0006578    ,
                  L0006579    , L0006580    , L0006581    , L0006582    , L0006583
, L0006584    , L0006585    , L0006586    ,
                  L0006587    , L0006588    , L0006589    , L0006590    , L0006591
, L0006592    , L0006593    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

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

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
        731866.30   4057450.99       13.71406  (09040924)                731868.18
4057319.52       14.00489  (09040924)
        734159.24   4057371.01        6.25420  (07012217)                734159.87
4057344.71        6.25794  (07012217)
        734219.36   4057346.59        6.15605  (07012217)                735182.33
4057279.09        4.58048  (07012217)
        733510.32   4062608.38        3.86757  (08011617)                733490.02
4060492.51        5.88962  (08012808)
        731054.88   4060409.49        7.53754  (11032502)                731096.39
4058804.51       11.07090  (11032502)
        731857.37   4058832.18        9.40033  (11032506)                731898.88
```

4057199.53   13.51826 (09040924)
        733116.45   4057241.04   8.10909 (09020518)   733116.45
4056825.95   7.46366 (07020723)
        732729.04   4056812.12   9.94254 (09020518)   732742.88
4056397.04   9.51274 (09020518)
        731926.55   4056383.20   17.55329 (08011617)   731968.06
4055580.71   18.30420 (10022818)
        731124.06   4055566.87   55.13233 (10021122)   731165.57
4054695.20   282.86252 (10120920)
        731968.06   4054709.04   18.12527 (07012217)   731954.22
4055179.46   18.25592 (10022818)
        733573.04   4055193.30   7.70617 (07012217)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: PGE   ***
                                 INCLUDING SOURCE(S):   L0006915   , L0006916
, L0006917   , L0006918   , L0006919   ,
                 L0006920   , L0006921   , L0006922   , L0006923   , L0006924
, L0006925   , L0006926   , L0006927   ,
                 L0006928   , L0006929   , L0006930   , L0006931   , L0006932
, L0006933   , L0006934   , L0006935   ,
                 L0006936   , L0006937   , L0006938   , L0006939   , L0006940
, L0006941   , L0006942   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

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

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        731866.30   4057450.99   18.08299 (10120920)   731868.18
4057319.52   18.91933 (10120920)
        734159.24   4057371.01   14.15976 (11022820)   734159.87
4057344.71   13.96006 (11022820)
        734219.36   4057346.59   14.33255 (07022620)   735182.33
4057279.09   12.24555 (07020723)
        733510.32   4062608.38   5.10221 (11032506)   733490.02
4060492.51   7.55688 (10030122)

```
        731054.88   4060409.49        7.71612  (09122018)               731096.39
4058804.51       12.21187  (08021921)
        731857.37   4058832.18       12.52152  (10021122)               731898.88
4057199.53       19.46551  (10120920)
        733116.45   4057241.04       16.85523  (09040924)               733116.45
4056825.95       18.41415  (09040924)
        732729.04   4056812.12       19.67417  (11032506)               732742.88
4056397.04       22.66126  (11032506)
        731926.55   4056383.20       26.14686  (10120920)               731968.06
4055580.71       36.93272  (09021822)
        731124.06   4055566.87       31.99305  (07022719)               731165.57
4054695.20       50.07693  (10032018)
        731968.06   4054709.04       55.55790  (08021921)               731954.22
4055179.46       44.67293  (09122018)
        733573.04   4055193.30       35.45730  (09020518)

 *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                   PAGE 278
 *** 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
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

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

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        731866.30   4057450.99       22.96793  (10120920)               731868.18
4057319.52       23.89087  (10120920)
        734159.24   4057371.01       18.80449  (10022818)               734159.87
4057344.71       18.95309  (10022818)
        734219.36   4057346.59       18.78765  (07022620)               735182.33
```

4057279.09   14.55129 (07020723)
        733510.32   4062608.38   11.54495 (09022519)   733490.02
4060492.51   17.98622 (10030122)
        731054.88   4060409.49   16.56913 (09122018)   731096.39
4058804.51   24.42818 (08022208)
        731857.37   4058832.18   28.06484 (08022208)   731898.88
4057199.53   24.59602 (10120920)
        733116.45   4057241.04   25.68749 (09040924)   733116.45
4056825.95   31.54552 (09040924)
        732729.04   4056812.12   27.54568 (11032506)   732742.88
4056397.04   33.97752 (09020421)
        731926.55   4056383.20   31.77376 (10120920)   731968.06
4055580.71   45.04763 (09021822)
        731124.06   4055566.87   56.35751 (10021122)   731165.57
4054695.20   283.52051 (10120920)
        731968.06   4054709.04   59.95556 (08021921)   731954.22
4055179.46   50.25704 (09122018)
        733573.04   4055193.30   38.86195 (09020518)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                       *** THE SUMMARY OF MAXIMUM PERIOD (43824 HRS) RESULTS ***

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

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

```
   61.17,    0.00)  DC
          6TH HIGHEST VALUE IS       0.93456 AT (  732742.88,  4056397.04,    61.94,
   61.94,    0.00)  DC
          7TH HIGHEST VALUE IS       0.92685 AT (  731968.06,  4054709.04,    62.84,
   62.84,    0.00)  DC
          8TH HIGHEST VALUE IS       0.75984 AT (  731968.06,  4055580.71,    63.08,
   63.08,    0.00)  DC
          9TH HIGHEST VALUE IS       0.71722 AT (  732729.04,  4056812.12,    62.12,
   62.12,    0.00)  DC
         10TH HIGHEST VALUE IS       0.63320 AT (  734159.24,  4057371.01,    58.77,
   58.77,    0.00)  DC

GENTIE    1ST HIGHEST VALUE IS      11.59431 AT (  731165.57,  4054695.20,    64.82,
   64.82,    0.00)  DC
          2ND HIGHEST VALUE IS       0.44542 AT (  731968.06,  4054709.04,    62.84,
   62.84,    0.00)  DC
          3RD HIGHEST VALUE IS       0.23422 AT (  731954.22,  4055179.46,    62.93,
   62.93,    0.00)  DC
          4TH HIGHEST VALUE IS       0.21851 AT (  731124.06,  4055566.87,    64.84,
   64.84,    0.00)  DC
          5TH HIGHEST VALUE IS       0.15990 AT (  731968.06,  4055580.71,    63.08,
   63.08,    0.00)  DC
          6TH HIGHEST VALUE IS       0.11744 AT (  733573.04,  4055193.30,    60.28,
   60.28,    0.00)  DC
          7TH HIGHEST VALUE IS       0.09608 AT (  731926.55,  4056383.20,    63.79,
   63.79,    0.00)  DC
          8TH HIGHEST VALUE IS       0.07880 AT (  732742.88,  4056397.04,    61.94,
   61.94,    0.00)  DC
          9TH HIGHEST VALUE IS       0.06599 AT (  732729.04,  4056812.12,    62.12,
   62.12,    0.00)  DC
         10TH HIGHEST VALUE IS       0.06463 AT (  731898.88,  4057199.53,    63.83,
   63.83,    0.00)  DC

PGE       1ST HIGHEST VALUE IS       0.20316 AT (  731968.06,  4054709.04,    62.84,
   62.84,    0.00)  DC
          2ND HIGHEST VALUE IS       0.19640 AT (  731165.57,  4054695.20,    64.82,
   64.82,    0.00)  DC
          3RD HIGHEST VALUE IS       0.14241 AT (  731954.22,  4055179.46,    62.93,
   62.93,    0.00)  DC
          4TH HIGHEST VALUE IS       0.11088 AT (  731124.06,  4055566.87,    64.84,
   64.84,    0.00)  DC
          5TH HIGHEST VALUE IS       0.11074 AT (  731968.06,  4055580.71,    63.08,
   63.08,    0.00)  DC
          6TH HIGHEST VALUE IS       0.09655 AT (  733573.04,  4055193.30,    60.28,
   60.28,    0.00)  DC
          7TH HIGHEST VALUE IS       0.07446 AT (  731926.55,  4056383.20,    63.79,
   63.79,    0.00)  DC
          8TH HIGHEST VALUE IS       0.06582 AT (  732742.88,  4056397.04,    61.94,
   61.94,    0.00)  DC
          9TH HIGHEST VALUE IS       0.05637 AT (  732729.04,  4056812.12,    62.12,
```

```
   62.12,    0.00)  DC
       10TH HIGHEST VALUE IS       0.05410 AT (  731898.88,  4057199.53,    63.83,
   63.83,    0.00)  DC

ALL        1ST HIGHEST VALUE IS      12.05254 AT (  731165.57,  4054695.20,    64.82,
   64.82,    0.00)  DC
        2ND HIGHEST VALUE IS       1.80438 AT (  731954.22,  4055179.46,    62.93,
   62.93,    0.00)  DC
        3RD HIGHEST VALUE IS       1.72579 AT (  731857.37,  4058832.18,    63.26,
   63.26,    0.00)  DC
        4TH HIGHEST VALUE IS       1.63294 AT (  733116.45,  4057241.04,    61.11,
   61.11,    0.00)  DC
        5TH HIGHEST VALUE IS       1.57543 AT (  731968.06,  4054709.04,    62.84,
   62.84,    0.00)  DC
        6TH HIGHEST VALUE IS       1.30409 AT (  733573.04,  4055193.30,    60.28,
   60.28,    0.00)  DC
        7TH HIGHEST VALUE IS       1.11862 AT (  733116.45,  4056825.95,    61.17,
   61.17,    0.00)  DC
        8TH HIGHEST VALUE IS       1.07918 AT (  732742.88,  4056397.04,    61.94,
   61.94,    0.00)  DC
        9TH HIGHEST VALUE IS       1.03048 AT (  731968.06,  4055580.71,    63.08,
   63.08,    0.00)  DC
       10TH HIGHEST VALUE IS       0.83958 AT (  732729.04,  4056812.12,    62.12,
   62.12,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE 280
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

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


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

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

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

CON      HIGH   1ST HIGH VALUE IS      26.21815  ON 08022208: AT (  731857.37,
4058832.18,    63.26,    63.26,    0.00)  DC

GENTIE   HIGH   1ST HIGH VALUE IS     282.86252  ON 10120920: AT (  731165.57,
4054695.20,    64.82,    64.82,    0.00)  DC

PGE      HIGH   1ST HIGH VALUE IS      55.55790  ON 08021921: AT (  731968.06,
4054709.04,    62.84,    62.84,    0.00)  DC

ALL      HIGH   1ST HIGH VALUE IS     283.52051  ON 10120920: AT (  731165.57,
4054695.20,    64.82,    64.82,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
↟ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE 281
 *** 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            1 Warning Message(s)
 A Total of         3492 Informational Message(s)

 A Total of        43824 Hours Were Processed

 A Total of         3492 Calm Hours Identified

 A Total of            0 Missing Hours Identified (  0.00 Percent)


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


    ********   WARNING MESSAGES   ********
 ME W187   15500       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
```

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

```
 *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  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:   7043 Source(s);       4 Source Group(s); and      23
Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:   7043 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:  21112

 **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) =    15.00 ;  Decay
Coef. =    0.000     ;  Rot. Angle =     0.0
                  Emission Units = GRAMS/SEC                                    ;
Emission Rate Unit Factor =   0.10000E+07
                  Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      6.5 MB of RAM.

 **Input Runstream File:          aermod.inp

 **Output Print File:             aermod.out


 **Detailed Error/Message File:   HEARTLAND HYDROGEN.ERR

 **File for Summary of Results:   HEARTLAND HYDROGEN.SUM

↟ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:07:44

                                  PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

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

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

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

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

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

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

Surface file: ..\MENDOTA-MM5\MENDOTA_07-11.SFC
Met Version: 21112
Profile file: ..\MENDOTA-MM5\MENDOTA_07-11.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 99005 Upper air station no.: 66666
Name: UNKNOWN Name: UNKNOWN

Year: 2007 Year: 2007

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

- - - -

*** THE SUMMARY OF MAXIMUM PERIOD (43824 HRS) RESULTS ***

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

GROUP ID	NETWORK	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
CON	1ST HIGHEST VALUE IS	1.65503	AT (731857.37, 4058832.18, 63.26, 63.26, 0.00)	DC	
	2ND HIGHEST VALUE IS	1.53470	AT (733116.45, 4057241.04, 61.11, 61.11, 0.00)	DC	
	3RD HIGHEST VALUE IS	1.42775	AT (731954.22, 4055179.46, 62.93, 62.93, 0.00)	DC	
	4TH HIGHEST VALUE IS	1.09010	AT (733573.04, 4055193.30, 60.28, 60.28, 0.00)	DC	
	5TH HIGHEST VALUE IS	1.00505	AT (733116.45, 4056825.95, 61.17, 61.17, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.93456	AT (732742.88, 4056397.04, 61.94, 61.94, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.92685	AT (731968.06, 4054709.04, 62.84, 62.84, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.75984	AT (731968.06, 4055580.71, 63.08, 63.08, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.71722	AT (732729.04, 4056812.12, 62.12, 62.12, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.63320	AT (734159.24, 4057371.01, 58.77, 58.77, 0.00)	DC	

```
GENTIE    1ST HIGHEST VALUE IS      11.59431 AT (  731165.57,  4054695.20,    64.82,
   64.82,    0.00)  DC
          2ND HIGHEST VALUE IS       0.44542 AT (  731968.06,  4054709.04,    62.84,
   62.84,    0.00)  DC
          3RD HIGHEST VALUE IS       0.23422 AT (  731954.22,  4055179.46,    62.93,
   62.93,    0.00)  DC
          4TH HIGHEST VALUE IS       0.21851 AT (  731124.06,  4055566.87,    64.84,
   64.84,    0.00)  DC
          5TH HIGHEST VALUE IS       0.15990 AT (  731968.06,  4055580.71,    63.08,
   63.08,    0.00)  DC
          6TH HIGHEST VALUE IS       0.11744 AT (  733573.04,  4055193.30,    60.28,
   60.28,    0.00)  DC
          7TH HIGHEST VALUE IS       0.09608 AT (  731926.55,  4056383.20,    63.79,
   63.79,    0.00)  DC
          8TH HIGHEST VALUE IS       0.07880 AT (  732742.88,  4056397.04,    61.94,
   61.94,    0.00)  DC
          9TH HIGHEST VALUE IS       0.06599 AT (  732729.04,  4056812.12,    62.12,
   62.12,    0.00)  DC
         10TH HIGHEST VALUE IS       0.06463 AT (  731898.88,  4057199.53,    63.83,
   63.83,    0.00)  DC

PGE       1ST HIGHEST VALUE IS       0.20316 AT (  731968.06,  4054709.04,    62.84,
   62.84,    0.00)  DC
          2ND HIGHEST VALUE IS       0.19640 AT (  731165.57,  4054695.20,    64.82,
   64.82,    0.00)  DC
          3RD HIGHEST VALUE IS       0.14241 AT (  731954.22,  4055179.46,    62.93,
   62.93,    0.00)  DC
          4TH HIGHEST VALUE IS       0.11088 AT (  731124.06,  4055566.87,    64.84,
   64.84,    0.00)  DC
          5TH HIGHEST VALUE IS       0.11074 AT (  731968.06,  4055580.71,    63.08,
   63.08,    0.00)  DC
          6TH HIGHEST VALUE IS       0.09655 AT (  733573.04,  4055193.30,    60.28,
   60.28,    0.00)  DC
          7TH HIGHEST VALUE IS       0.07446 AT (  731926.55,  4056383.20,    63.79,
   63.79,    0.00)  DC
          8TH HIGHEST VALUE IS       0.06582 AT (  732742.88,  4056397.04,    61.94,
   61.94,    0.00)  DC
          9TH HIGHEST VALUE IS       0.05637 AT (  732729.04,  4056812.12,    62.12,
   62.12,    0.00)  DC
         10TH HIGHEST VALUE IS       0.05410 AT (  731898.88,  4057199.53,    63.83,
   63.83,    0.00)  DC

ALL       1ST HIGHEST VALUE IS      12.05254 AT (  731165.57,  4054695.20,    64.82,
   64.82,    0.00)  DC
          2ND HIGHEST VALUE IS       1.80438 AT (  731954.22,  4055179.46,    62.93,
   62.93,    0.00)  DC
          3RD HIGHEST VALUE IS       1.72579 AT (  731857.37,  4058832.18,    63.26,
   63.26,    0.00)  DC
          4TH HIGHEST VALUE IS       1.63294 AT (  733116.45,  4057241.04,    61.11,
   61.11,    0.00)  DC
```

```
4054695.20,    64.82,    64.82,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
↑ *** AERMOD - VERSION 23132  ***   *** F:\LAKES\HEARTLAND\HEARTLAND HYDROGEN
WWTP\HEARTLAND HYDROGEN\HEARTL ***        04/16/25
 *** AERMET - VERSION  21112 ***   ***
                      ***        10:07:44

                                 PAGE   6
 *** 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            1 Warning Message(s)
 A Total of         3492 Informational Message(s)

 A Total of        43824 Hours Were Processed

 A Total of         3492 Calm Hours Identified

 A Total of            0 Missing Hours Identified (  0.00 Percent)


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


    ********   WARNING MESSAGES   ********
 ME W187   15500       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
```

HARP Project Summary Report 4/16/2025 12:43:22 PM

PROJECT INFORMATION
HARP Version: 22118
Project Name: HEARTLAND SOLAR HARP
Project Output Directory: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\Heartland\HEARTLAND SOLAR HARP
HARP Database: NA

FACILITY INFORMATION
Origin
X (m):0
Y (m):0
Zone:1
No. of Sources:0
No. of Buildings:0

EMISSION INVENTORY
No. of Pollutants:3
No. of Background Pollutants:0

Emissions

ScrID	StkID	ProID	PolID	PolAbbrev	Multi	Annual Ems (lbs/yr)	MaxHr Ems (lbs/hr)	MWAF
Construction	0	0	9901	DieselExhPM	1	154.07	0.07407	1
Gentie	0	0	9901	DieselExhPM	1	4.41	0.00212	1
PGE	0	0	9901	DieselExhPM	1	32.01	0.01539	1

Background

PolID	PolAbbrev	Conc (ug/m^3)	MWAF

Ground level concentration files (\glc\)
9901MAXHR.txt
9901PER.txt

POLLUTANT HEALTH INFORMATION
Health Database: C:\HARP2\Tables\HEALTH17320.mdb
Health Table Version: HEALTH25003
Official: True

PolID	PolAbbrev	InhCancer	OralCancer	AcuteREL

InhChronicREL OralChronicREL InhChronic8HRREL

9901 DieselExhPM 1.1 5

AIR DISPERSION MODELING INFORMATION
Versions used in HARP. All executables were obtained from USEPA's Support Center for Regulatory Atmospheric Modeling website (http://www.epa.gov/scram001/)
AERMOD: 18081
AERMAP: 18081
BPIPPRM: 04274
AERPLOT: 13329

METEOROLOGICAL INFORMATION
Version:
Surface File:
Profile File:
Surface Station:
Upper Station:
On-Site Station:

LIST OF AIR DISPERSION FILES
AERMOD Input File:
AERMOD Output File:
AERMOD Error File:
Plotfile list

Cancer.plt

LIST OF RISK ASSESSMENT FILES
Health risk analysis files (\hra\)

ResidentialCancerRisk.csv
ResidentialCancerRiskSumByRec.csv
ResidentialGLCList.csv
ResidentialHRAInput.hra
ResidentialNCAcuteRisk.csv
ResidentialNCAcuteRiskSumByRec.csv
ResidentialNCChronicRisk.csv
ResidentialNCChronicRiskSumByRec.csv
ResidentialOutput.txt
ResidentialPathwayRec.csv
ResidentialPolDB.csv

Spatial averaging files (\sa\)

HARP2 - HRACalc (dated 22118) 4/16/2025 12:31:42 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 1.5

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 1.5
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: 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: LongTerm24HR

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): 0.05
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\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\Heartland\HEARTLAND SOLAR HARP\hra\ResidentialCancerRisk.csv
Cancer risk total by receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\Heartland\HEARTLAND SOLAR HARP\hra\ResidentialCancerRiskSumByRec.csv
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\Heartland\HEARTLAND SOLAR HARP\hra\ResidentialNCChronicRisk.csv
Chronic risk total by receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\Heartland\HEARTLAND SOLAR HARP\hra\ResidentialNCChronicRiskSumByRec.csv
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\Heartland\HEARTLAND SOLAR HARP\hra\ResidentialNCAcuteRisk.csv
Acute risk total by receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\Heartland\HEARTLAND SOLAR HARP\hra\ResidentialNCAcuteRiskSumByRec.csv
HRA ran successfully

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_R	MMILK_RIS	WATER_RIS	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISK	PIG_RISK	CHICKEN_F	EGG_RISK
1	ALL		731866.3	4057451	3.27E-07	1.5YrCance	3.27E-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
2	ALL		731868.2	4057320	2.82E-07	1.5YrCance	2.82E-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
3	ALL		734159.2	4057371	3.70E-07	1.5YrCance	3.70E-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
4	ALL		734159.9	4057345	3.70E-07	1.5YrCance	3.70E-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
5	ALL		734219.4	4057347	3.55E-07	1.5YrCance	3.55E-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
6	ALL		735182.3	4057279	2.11E-07	1.5YrCance	2.11E-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	0.00E+00
7	ALL		733510.3	4062608	3.24E-08	1.5YrCance	3.24E-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	0.00E+00
8	ALL		733490	4060493	1.63E-07	1.5YrCance	1.63E-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	0.00E+00
9	ALL		731054.9	4060409	2.46E-07	1.5YrCance	2.46E-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
10	ALL		731096.4	4058805	2.54E-07	1.5YrCance	2.54E-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
11	ALL		731857.4	4058832	9.58E-07	1.5YrCance	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
12	ALL		731898.9	4057200	2.52E-07	1.5YrCance	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
13	ALL		733116.5	4057241	8.90E-07	1.5YrCance	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
14	ALL		733116.5	4056826	5.86E-07	1.5YrCance	5.86E-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
15	ALL		732729	4056812	4.21E-07	1.5YrCance	4.21E-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
16	ALL		732742.9	4056397	5.48E-07	1.5YrCance	5.48E-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
17	ALL		731926.6	4056383	2.81E-07	1.5YrCance	2.81E-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
18	ALL		731968.1	4055581	4.54E-07	1.5YrCance	4.54E-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
19	ALL		731124.1	4055567	2.47E-07	1.5YrCance	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
20	ALL		731165.6	4054695	3.66E-07	1.5YrCance	3.66E-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
21	ALL		731968.1	4054709	5.66E-07	1.5YrCance	5.66E-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
22	ALL		731954.2	4055179	8.43E-07	1.5YrCance	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
23	ALL		733573	4055193	6.42E-07	1.5YrCance	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

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		731866.3	4057451	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04
2	ALL		731868.2	4057320	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04
3	ALL		734159.2	4057371	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-04
4	ALL		734159.9	4057345	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04
5	ALL		734219.4	4057347	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04
6	ALL		735182.3	4057279	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
7	ALL		733510.3	4062608	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05
8	ALL		733490	4060493	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
9	ALL		731054.9	4060409	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04
10	ALL		731096.4	4058805	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
11	ALL		731857.4	4058832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.37E-04
12	ALL		731898.9	4057200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04
13	ALL		733116.5	4057241	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.85E-04
14	ALL		733116.5	4056826	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-04
15	ALL		732729	4056812	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-04
16	ALL		732742.9	4056397	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-04
17	ALL		731926.6	4056383	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
18	ALL		731968.1	4055581	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
19	ALL		731124.1	4055567	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04
20	ALL		731165.6	4054695	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04
21	ALL		731968.1	4054709	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	0.00E+00	4.35E-04
22	ALL		731954.2	4055179	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-04
23	ALL		733573	4055193	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-04

Appendix D
Health Effects

MEMORANDUM

To:	Memorandum to File
From:	Adam Poll; Dudek
Subject:	Health Effects from Criteria Air Pollutant Emissions Associated with the Heartland Solar Project
Date:	April 22, 2025

1 Purpose and Introduction

In response to the California Supreme Court's *Sierra Club v. County of Fresno* (2018) 6 Cal. 5th 502 decision (referred to herein as the Friant Ranch decision), this memorandum addresses the potential for adverse health effects related to emissions of criteria air pollutants associated with construction and operation of the proposed Heartland Solar (project), based on scientific information and technological methods available at the time of this memorandum's preparation. The published Friant Ranch decision (issued on December 24, 2018) addresses the need to correlate mass emission values for criteria air pollutants to specific health consequences, and contains the following direction from the California Supreme Court: "The Environmental Impact Report (EIR) must provide an adequate analysis to inform the public how its bare numbers translate to create potential adverse impacts or it must explain what the agency *does* know and why, given existing scientific constraints, it cannot translate potential health impacts further." (Italics original.) (Sierra Club v. County of Fresno 2018.)

As discussed below, at the time of this memorandum's preparation, no expert agency, including the California Air Resources Board (CARB), or the U.S. Environmental Protection Agency (EPA), have approved a quantitative method to reliably, meaningfully and consistently translate the mass emission estimates for the criteria air pollutants resulting from a proposed project to specific health effects. In April 2019, the Sacramento Metropolitan Air Quality Management District (Sacramento Metropolitan AQMD) published an Interim Recommendation on implementing the Friant Ranch decision in the review and analysis of proposed projects under the California Environmental Quality Act (CEQA) in Sacramento County. In October 2020, the Sacramento Metropolitan AQMD published instructions for using a health effects screening tool for projects within their 5-Air-District Region, which is summarized in Section 4, below. In 2022, the Bay Area Air Quality Management District released health effects assessment for criteria air pollutants guidance to address the Friant Ranch case as part of their 2022 CEQA Guidelines, which is qualitative (Bay Area AQMD 2022). No other California air district or other expert agency/entity has published *quantitative* guidance on how to address the Friant Ranch decision for the state.

Nonetheless, following the Supreme Court's Friant Ranch decision, some EIRs where estimated criteria air pollutant emissions exceeded applicable air district thresholds have included a quantitative analysis of potential project-generated health effects using a combination of a regional photochemical grid model (PGM) and the EPA Benefits Mapping and Analysis Program (BenMAP or BenMAP–Community Edition (CE)). The publicly available health impact assessments (HIA) typically present results in terms of an increase in health incidences and/or the increase in

background health incidence for various health outcomes resulting from the project's estimated increase in concentrations of ozone (O_3) and particulate matter with an aerodynamic diameter less than or equal to 2.5 microns ($PM_{2.5}$). To date, all of the HIAs that are publicly available that have been reviewed as part of this memorandum have concluded that the evaluated project's health effects associated with the estimated project-generated increase in concentrations of O_3 and $PM_{2.5}$ represent a small increase in incidences and a very small percent of the number of background incidences, indicating that these health impacts are negligible and potentially within the models' margin of error. A review of the publicly available HIAs in CEQA documents is provided in Section 4.

2 National and California Ambient Air Quality Standards

Ambient air quality standards (AAQS) define clean air and are established to protect even the most sensitive individuals (CARB 2023a). An AAQS defines the maximum amount of a pollutant averaged over a specified period of time that can be present in outdoor air without harm to the public's health. The EPA and CARB are both authorized to set AAQS.

The Clean Air Act Amendments of 1970 instruct the EPA to set primary National AAQS (NAAQS) to protect public health, and secondary NAAQS to protect plants, forests, crops and materials from damage due to exposure to the following criteria air pollutants: O_3, nitrogen dioxide (NO_2), carbon monoxide (CO), sulfur dioxide (SO_2), particulate matter with an aerodynamic diameter less than or equal to 10 microns (PM_{10}), $PM_{2.5}$, and lead.

The federal Clean Air Act requires that the EPA reassess, at least every five years, whether adopted standards are adequate to protect public health based on current scientific evidence. The EPA is required to rely on the advice of an independent scientific panel, the Clean Air Scientific Advisory Committee. Reviewing the NAAQS is a lengthy undertaking and includes the following major phases: planning, integrated science assessment, risk/exposure assessment, policy assessment, and rulemaking (EPA 2023a). During the integrated science assessment, a comprehensive review, synthesis, and evaluation of the most policy-relevant science is conducted, including key science judgments that are important to inform the development of the risk and exposure assessments (EPA 2023a). Then, the risk/exposure assessment draws upon information and conclusions presented in the integrated science assessment to develop quantitative characterizations of exposures and associated risks to human health or the environment associated with recent air quality conditions and with air quality estimated to just meet the current or alternative standard(s) under consideration (EPA 2023a). Scientific review during policy assessment development, and the NAAQS review process in general, is thorough and extensive.

In 1959, California enacted legislation requiring the state Department of Public Health to establish AAQS and necessary controls for motor vehicle emissions (CARB 2023b). California's AAQS (CAAQS) were adopted in 1971 (CARB 2023b). The CAAQS are established for O_3, NO_2, CO, SO_2, PM_{10}, and $PM_{2.5}$, as well as hydrogen sulfide, vinyl chloride, sulfates, and visibility reducing particles.

Air quality standard setting in California commences with a critical review of all relevant peer reviewed scientific literature. The Office of Environmental Health Hazard Assessment (OEHHA) uses the review of health literature to develop a recommendation for the standard. The recommendation can be for no change or for a new standard. The review, including the OEHHA recommendation, is summarized in a document called the draft Initial Statement of Reasons (ISOR), which is released for comment by the public, and also for public peer review by the Air Quality Advisory Committee (AQAC). AQAC members are appointed by the President of the University of California for their expertise in the range of subjects covered in the ISOR, including health, exposure, air quality monitoring,

atmospheric chemistry and physics, and effects on plants, trees, materials, and ecosystems. The Committee provides written comments on the draft ISOR. CARB staff next revises the ISOR based on comments from AQAC and the public. The revised ISOR is then released for a 45-day public comment period prior to consideration by the Board of CARB at a regularly scheduled Board hearing (CARB 2023c).

Federal law requires that all states attain the NAAQS. Failure of a state to reach attainment of the NAAQS by the target date can trigger penalties, including withholding of federal highway funds (CARB 2023b). California law similarly continues to mandate CAAQS, although attainment of the NAAQS has precedence over attainment of the CAAQS (CARB 2023b).

Of importance to this memorandum, California air districts have based their thresholds of significance for CEQA purposes on the levels that scientific and factual data demonstrate that the air basin can accommodate without affecting the attainment date for the NAAQS or CAAQS. Since an AAQS is based on maximum pollutant levels in outdoor air that would not harm the public's health, and air district thresholds pertain to attainment of the AAQS, this means that the thresholds established by air districts are also protective of human health. The particular thresholds of relevance to the project are illustrated in Table 3.2-7, Criteria Air Pollutant Thresholds of Significance by California Air District, of the EIR. Because O_3 is not emitted directly, air districts have established emissions-based thresholds for O_3 precursors—volatile organic compounds (VOCs) and oxides of nitrogen (NO_x)—which are intended to serve as a surrogate for an "O_3 significance threshold" (i.e., the potential for adverse O_3 impacts to occur).

The NAAQS and CAAQS for O_3, NO_2, CO, SO_2, PM_{10}, and $PM_{2.5}$ are presented in Table 1. Hydrogen sulfide, vinyl chloride, sulfates, and visibility reducing particles are not addressed further in this evaluation because they are not routinely associated with land use development projects subject to CEQA review and are thus not 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/m³)	—	Same as primary standard[f]
	8 hours	0.070 ppm (137 µg/m³)	0.070 ppm (137 µg/m³)[f]	
NO_2[g]	1 hour	0.18 ppm (339 µg/m³)	0.100 ppm (188 µg/m³)	Same as primary standard
	Annual arithmetic mean	0.030 ppm (57 µg/m³)	0.053 ppm (100 µg/m³)	
CO	1 hour	20 ppm (23 mg/m³)	35 ppm (40 mg/m³)	None
	8 hours	9.0 ppm (10 mg/m³)	9 ppm (10 mg/m³)	
SO_2[h]	1 hour	0.25 ppm (655 µg/m³)	0.075 ppm (196 µg/m³)	—
	3 hours	—	—	0.5 ppm (1,300 µg/m³)
	24 hours	0.04 ppm (105 µg/m³)	0.14 ppm (for certain areas)[g]	—
	Annual	—	0.030 ppm (for certain areas)[g]	—
PM_{10}[i]	24 hours	50 µg/m³	150 µg/m³	Same as primary standard
	Annual arithmetic mean	20 µg/m³	—	
$PM_{2.5}$[i]	24 hours	—	35 µg/m³	Same as primary standard
	Annual arithmetic mean	12 µg/m³	9.0 µg/m³	15.0 µg/m³
Lead[j,k]	30-day average	1.5 µg/m³	—	—
	Calendar quarter	—	1.5 µg/m³ (for certain areas)[k]	Same as primary standard
	Rolling 3-month average	—	0.15 µg/m³	
Hydrogen sulfide	1 hour	0.03 ppm (42 µg/m³)	—	—
Vinyl chloride[j]	24 hours	0.01 ppm (26 µg/m³)	—	—
Sulfates	24 hours	25 µg/m³	—	—
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%	—	—

Source: CARB 2016.
Notes: O_3 = ozone; ppm = parts per million by volume; µg/m³ = micrograms per cubic meter; NO_2 = nitrogen dioxide; CO = carbon monoxide; mg/m³= milligrams per cubic meter; SO_2 = sulfur dioxide; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; PST = Pacific Standard Time.

[a] California standards for O_3, CO, SO_2 (1-hour and 24-hour), NO_2, suspended particulate matter (PM_{10}, $PM_{2.5}$), 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 O_3, NO_2, SO_2, particulate matter, and those based on annual averages or annual arithmetic mean) are not to be exceeded more than once per year. The O_3 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 PM_{10}, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m^3 is equal to or less than 1. For $PM_{2.5}$, the 24-hour standard is attained when 98% of the daily concentrations, averaged over 3 years, are equal to or less than the standard.

[c] Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based on a reference temperature of 25°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 O_3 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 SO_2 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 SO_2 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.

[l] On December 14, 2012, the national annual $PM_{2.5}$ primary standard was lowered from 15 µg/m^3 to 12.0 µg/m^3. The existing national 24-hour $PM_{2.5}$ standards (primary and secondary) were retained at 35 µg/m^3, as was the annual secondary standard of 15 µg/m^3. The existing 24-hour PM_{10} standards (primary and secondary) of 150 µg/m^3 were also retained. The form of the annual primary and secondary standards is the annual mean averaged over 3 years.

[j] CARB has identified lead and vinyl chloride as 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/m^3 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.

Pursuant to the 1990 Clean Air Act amendments, the 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. If there is not enough data available to determine whether the standard is exceeded in an area, the area is designated as "unclassified" or "unclassifiable." The designation of "unclassifiable/attainment" means that the area meets the standard or is expected to be meet the standard despite a lack of monitoring data. Nonattainment areas must develop plans to attain the NAAQS. Areas that achieve the standards after a nonattainment designation are redesignated as maintenance areas and must have approved maintenance plans to ensure continued attainment of the standards. The California Clean Air Act, like its federal counterpart, called for the designation of areas as "attainment" or "nonattainment," but based on CAAQS rather than NAAQS.

Table 2 depicts the current attainment status of the counties where project activity would occur in respect to the NAAQS and CAAQS.[1]

[1] The same discussion of the attainment designation is provided in Section 3.2 of the EIR.

Table 2. San Joaquin Valley Air Basin Attainment Status

Pollutant	Designation/Classification	
	National Designation	California Designation
Ozone (O_3) – 1-hour	No national standard[1]	Nonattainment/Severe
Ozone (O_3) – 8-hour	Nonattainment/Extreme[2]	Nonattainment
Nitrogen dioxide (NO_2)	Unclassifiable/attainment	Attainment
Carbon monoxide (CO)	Unclassifiable/attainment	Attainment
Sulfur dioxide (SO_2)	Unclassifiable/attainment	Attainment
Respirable particulate matter (PM_{10})	Attainment (Maintenance)[3]	Nonattainment
Fine particulate matter ($PM_{2.5}$)	Nonattainment[4]	Nonattainment
Lead (Pb)[5]	Unclassifiable/attainment	Attainment
Sulfates (SO_4)	No national standard	Attainment
Hydrogen sulfide (H_2S)	No national standard	Unclassified
Vinyl chloride[5]	No national standard	No designation
Visibility-reducing particles	No national standard	Unclassified

Sources: SJVAPCD 2020c; EPA 2018 (national); CARB 2019e (California).
Notes: Attainment = meets the standards; Attainment (maintenance) = achieve the standards after a nonattainment designation; Nonattainment = does not meet the standards; Unclassified or unclassifiable = insufficient data to classify; Unclassifiable/attainment = meets the standard or is expected to be meet the standard despite a lack of monitoring data.

1 Effective June 15, 2005, the EPA revoked the national 1-hour ozone standard, including associated designations and classifications. EPA had previously classified the SJVAB as extreme nonattainment for this standard. EPA approved the 2004 Extreme Ozone Attainment Demonstration Plan (SJVAPCD 2004) on March 8, 2010 (effective April 7, 2010). Many applicable requirements for extreme 1-hour ozone nonattainment areas continue to apply to the SJVAB.

2 Though the San Joaquin Valley was initially classified as serious nonattainment for the 1997 8-hour ozone standard, EPA approved San Joaquin Valley reclassification to extreme nonattainment in the Federal Register on May 5, 2010 (effective June 4, 2010).

3 On September 25, 2008, EPA re-designated the San Joaquin Valley to attainment for the PM_{10} NAAQS and approved the PM_{10} Maintenance Plan.

4 The San Joaquin Valley is designated nonattainment for the 1997 $PM_{2.5}$ NAAQS. EPA designated the San Joaquin Valley as nonattainment for the 2006 $PM_{2.5}$ NAAQS on November 13, 2009 (effective December 14, 2009).

5 CARB has identified lead and vinyl chloride as toxic air contaminants with no threshold level of exposure for adverse health effects determined.

Various California air districts are responsible for developing and implementing the clean air plan for attainment and maintenance of the AAQS in their associated air basin. Accordingly, these air districts have adopted federal and state attainment plans. As air districts develop and implement plans and control measures designed to attain the AAQS, the air districts implement measures to reduce public health effects associated with criteria air pollutants.

3 Health Effects of Criteria Air Pollutants and their Precursors

Numerous scientific studies published over the past 50 years point to the harmful effects of air pollution (CARB 2023b). As explained above, the AAQS are designed to prevent these effects (CARB 2023b). The adverse health effects associated with air pollution include, but are not limited to (South Coast AQMD 2022):

- Premature mortality
- Cardiovascular effects
- Cancer
- Reproductive effects
- Neurological effects
- Increased respiratory illness and other morbidity (symptoms, infections, and asthma exacerbation)

The evidence linking these effects to air pollutants is derived from population-based observational and field studies (epidemiological), toxicological studies, as well as controlled laboratory studies involving human subjects and animals. There have been an increasing number of studies focusing on the mechanisms (that is, on learning how specific organs, cell types, and biomarkers are involved in the human body's response to air pollution) and specific pollutants responsible for individual effects. Yet the underlying biological pathways for these effects are not always clearly understood (South Coast AQMD 2022).

Although individuals inhale pollutants as a mixture under ambient conditions, the regulatory framework and the control measures developed are pollutant-specific for six major outdoor pollutants covered under Sections 108 and 109 of the Clean Air Act. This is appropriate, in that different pollutants usually differ in their sources, their times and places of occurrence, the kinds of health effects they may cause, and their overall levels of health risk. Different pollutants, from the same or different sources, oftentimes occur together. Evidence for more than additive effects has not been strong and, as a practical matter, health scientists, as well as regulatory officials, usually must deal with one pollutant at a time in adopting AAQS (South Coast AQMD 2022).

Health effects associated with criteria air pollutants are discussed below.

Ozone. O_3 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 O_3 precursors. These precursors are mainly NO_x and VOCs. The maximum effects of precursor emissions on O_3 concentrations usually occur several hours after they are emitted and many miles from the source. Meteorology and terrain play major roles in O_3 formation, and ideal conditions occur during summer and early autumn on days with low wind speeds or stagnant air, warm temperatures, and cloudless skies. O_3 exists in the upper atmosphere O_3 layer (stratospheric O_3) and at the Earth's surface in the troposphere (ground-level O_3).[2] The O_3 that the EPA and CARB regulate as a criteria air pollutant is produced close to the ground level, where people live, exercise, and breathe. Ground-level O_3 is a harmful air pollutant that causes numerous adverse health effects and is thus considered "bad" O_3. Stratospheric, or "good," O_3 occurs naturally in the upper atmosphere, where it reduces the

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

amount of ultraviolet light (i.e., solar radiation) entering the Earth's atmosphere. Without the protection of the beneficial stratospheric O_3 layer, plant and animal life would be seriously harmed.

O_3 in the troposphere causes numerous adverse health effects; short-term exposures (lasting for a few hours) to O_3 at levels typically observed in Southern California can result in breathing pattern changes, reduction of breathing capacity, increased susceptibility to infections, inflammation of the lung tissue, and some immunological changes (EPA 2013).

Inhalation of O_3 causes inflammation and irritation of the tissues lining human airways, causing and worsening a variety of symptoms. Exposure to O_3 can reduce the volume of air that the lungs breathe in, thereby causing shortness of breath. O_3 in sufficient doses increases the permeability of lung cells, rendering them more susceptible to toxins and microorganisms. The occurrence and severity of health effects from O_3 exposure vary widely among individuals, even when the dose and the duration of exposure are the same. Research shows adults and children who spend more time outdoors participating in vigorous physical activities are at greater risk from the harmful health effects of O_3 exposure. While there are relatively few studies on the effects of O_3 on children, the available studies show that children are no more or less likely to suffer harmful effects than adults. However, there are a number of reasons why children may be more susceptible to O_3 and other pollutants. Children and teens spend nearly twice as much time outdoors and engaged in vigorous activities as adults. Children breathe more rapidly than adults and inhale more pollution per pound of their body weight than adults. Also, children are less likely than adults to notice their own symptoms and avoid harmful exposures. Further research may be able to better distinguish between health effects in children and adults. Children, adolescents, and adults who exercise or work outdoors, where O_3 concentrations are the highest, are at the greatest risk of harm from this pollutant (CARB 2022b).

A number of population groups are potentially at increased risk for O_3 exposure effects. In the ongoing review of O_3, the EPA has identified populations as having adequate evidence for increased risk from O_3 exposures include individuals with asthma, younger and older age groups, individuals with reduced intake of certain nutrients such as Vitamins C and E, and outdoor workers. There is suggestive evidence for other potential factors, such as variations in genes related to oxidative metabolism or inflammation, gender, socioeconomic status, and obesity. However further evidence is needed (South Coast AQMD 2022).

The adverse effects reported with short-term O_3 exposure are greater with increased activity because activity increases the breathing rate and the volume of air reaching the lungs, resulting in an increased amount of O_3 reaching the lungs. Children may be a particularly vulnerable population to air pollution effects because they spend more time outdoors, are generally more active, and have a higher specific ventilation relative to their body weight, compared to adults (South Coast AQMD 2022).

Volatile Organic Compounds. The primary health effects of VOCs result from the formation of O_3 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). There are no separate health standards for VOCs as a group.

Nitrogen Dioxide. NO_2 is a brownish, highly reactive gas that is present in all urban atmospheres. The major mechanism for the formation of NO_2 in the atmosphere is the oxidation of the primary air pollutant nitric oxide (NO), which is a colorless, odorless gas. NO_x plays a major role, together with VOCs, in the atmospheric reactions that produce O_3. 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. NO_2 can irritate the lungs, cause bronchitis and pneumonia, and lower resistance to respiratory infections (EPA 2016).

A large body of health science literature Indicates that exposure to NO_2 can induce adverse health effects. The strongest health evidence, and the health basis for the ambient air quality standards for NO_2, results from controlled human exposure studies that show that NO_2 exposure can intensify responses to allergens in allergic asthmatics. In addition, a number of epidemiological studies have demonstrated associations between NO_2 exposure and premature death, cardiopulmonary effects, decreased lung function growth in children, respiratory symptoms, emergency room visits for asthma, and intensified allergic responses. Infants and children are particularly at risk because they have disproportionately higher exposure to NO_2 than adults due to their greater breathing rate for their body weight and their typically greater outdoor exposure duration. Several studies have shown that long-term NO_2 exposure during childhood, the period of rapid lung growth, can lead to smaller lungs at maturity in children with higher levels of exposure compared to children with lower exposure levels. In addition, children with asthma have a greater degree of airway responsiveness compared with adult asthmatics. In adults, the greatest risk is to people who have chronic respiratory diseases, such as asthma and chronic obstructive pulmonary disease (CARB 2022c).

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

CO is harmful because it binds to hemoglobin in the blood, reducing the ability of blood to carry oxygen. This interferes with oxygen delivery to the body's organs. The most common effects of CO exposure are fatigue, headaches, confusion and reduced mental alertness, light-headedness, and dizziness due to inadequate oxygen delivery to the brain. For people with cardiovascular disease, short-term CO exposure can further reduce their body's already compromised ability to respond to the increased oxygen demands of exercise, exertion, or stress. Inadequate oxygen delivery to the heart muscle leads to chest pain and decreased exercise tolerance. Unborn babies whose mothers experience high levels of CO exposure during pregnancy are at risk of adverse developmental effects. Unborn babies, infants, elderly people, and people with anemia or with a history of heart or respiratory disease are most likely to experience health effects with exposure to elevated levels of CO (CARB 2022d).

Sulfur Dioxide. SO_2 is a colorless, pungent gas formed primarily from incomplete combustion of sulfur-containing fossil fuels. The main sources of SO_2 are coal and oil used in power plants and industries; as such, the highest levels of SO_2 are generally found near large industrial complexes. In recent years, SO_2 concentrations have been reduced by the increasingly stringent controls placed on stationary source emissions of SO_2 and limits on the sulfur content of fuels.

Controlled human exposure and epidemiological studies show that children and adults with asthma are more likely to experience adverse responses with SO_2 exposure, compared with the non-asthmatic population. Effects at levels near the 1-hour standard are those of asthma exacerbation, including bronchoconstriction accompanied by symptoms of respiratory irritation such as wheezing, shortness of breath, and chest tightness, especially during exercise or physical activity. Also, exposure at elevated levels of SO_2 (above 1 parts per million [ppm]) results in increased incidence of pulmonary symptoms and disease, decreased pulmonary function, and increased risk of mortality. Older people and people with cardiovascular disease or chronic lung disease (such as bronchitis or emphysema) are most likely to experience these adverse effects (CARB 2022e).

SO_2 is of concern both because it is a direct respiratory irritant and because it contributes to the formation of sulfate and sulfuric acid in particulate matter (NRC 2005). People with asthma are of particular concern, both because they have increased baseline airflow resistance and because their SO_2-induced increase in airflow resistance is greater than in healthy people, and it increases with the severity of their asthma (NRC 2005). SO_2 is thought to induce airway constriction via neural reflexes involving irritant receptors in the airways (NRC 2005).

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 industries and motor vehicles undergo chemical reactions in the atmosphere. $PM_{2.5}$ and PM_{10} represent fractions of particulate matter. Coarse particulate matter (PM_{10}) consists of particulate matter that is 10 microns or less in diameter, which is about 1/7 the thickness of a human hair. Major sources of PM_{10} 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, which 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 PM_{10} 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 PM_{10} 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 PM_{10} 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.

Several adverse health effects have been associated with exposure to both $PM_{2.5}$ and PM_{10}. For $PM_{2.5}$, short-term exposures (up to 24-hour duration) have been associated with premature mortality, increased hospital admissions for heart or lung causes, acute and chronic bronchitis, asthma attacks, emergency room visits, respiratory symptoms, and restricted activity days. These adverse health effects have been reported primarily in infants, children, and older adults with preexisting heart or lung diseases. In addition, of all of the common air pollutants, $PM_{2.5}$ is associated with the greatest proportion of adverse health effects related to air pollution, both in the United States and worldwide based on the World Health Organization's Global Burden of Disease Project. Short-term

exposures to PM_{10} have been associated primarily with worsening of respiratory diseases, including asthma and chronic obstructive pulmonary disease, leading to hospitalization and emergency department visits (CARB 2022f).

Long-term exposure (months to years) to $PM_{2.5}$ has been linked to premature death, particularly in people who have chronic heart or lung diseases, and reduced lung function growth in children. The effects of long-term exposure to PM_{10} are less clear, although several studies suggest a link between long-term PM_{10} exposure and respiratory mortality. The International Agency for Research on Cancer published a review in 2015 that concluded that particulate matter in outdoor air pollution causes lung cancer (CARB 2022f).

People with influenza, people with chronic respiratory and cardiovascular diseases, and older adults may suffer worsening illness and premature death as a result of breathing PM. People with bronchitis can expect aggravated symptoms from breathing PM. Children may experience a decline in lung function due to breathing in PM_{10} and $PM_{2.5}$ (EPA 2009).

PM encompasses a physically and chemically diverse class of ambient air pollutants of both anthropogenic and biological origin. The PM standard is the only NAAQS that does not target a specific chemical or family of chemical species (NRC 2005). The range of human health effects associated with ambient PM levels or demonstrated in laboratory studies has expanded from earlier concerns for total mortality and respiratory morbidity to include cardiac mortality and morbidity, blood vessel constriction, stroke, premature birth, low birth weight, retarded lung growth, enhancement of allergic responses, reduced resistance to infection, degenerative lesions in the brain, and lung cancer (EPA 2004).

4 Scientific and Technological Complexities, Guidance, and Methods

At issue in the Friant Ranch decision was the fact that a development project's environmental analysis did not connect its mass emission totals to specific adverse human health effects. Concerned with the sufficiency of the environmental analysis as an informational document, and specifically whether the magnitude of project impacts was adequately disclosed, the California Supreme Court stated the following:

> "The task for real party and the County is clear: The EIR must provide an adequate analysis to inform the public how its bare numbers translate to create potential adverse impacts or it must adequately explain what the agency *does* know and why, given existing scientific constraints, it cannot translate potential health impacts further." (Sierra Club v. County of Fresno 2018; italics original)

As discussed further below, at the time of this writing, no available modeling tools have been proven to provide a reliable and meaningful analysis to correlate an increase in mass totals or concentrations of criteria air pollutants from an individual project to specific health effects, or estimate additional pollutant nonattainment days relative to the NAAQS and CAAQS due to a single project.

Available guidance and expert opinion are summarized below and includes the San Joaquin Valley APCD amicus brief, the South Coast AQMD amicus brief, the Sacramento Metropolitan quantitative guidance and tools for projects within the 5-Air-District region, the Bay Area AQMD qualitative guidance, the City of Los Angeles qualitative guidance, and the Association of Environmental Professionals Climate Change Committee qualitative guidance.

Methods available are also discussed including publicly available HIAs conducted for CEQA analyses using a PGM and BenMAP, and the EPA Co-Benefits Risk Assessment (COBRA) health impacts screening and mapping tool.

Formation of Secondary Pollutants

The California Supreme Court noted, in the Friant Ranch decision, that: "The raw numbers estimating the tons per year of ROG and NO_x from the Project do not give any information to the reader about how much ozone is estimated to be produced as a result."

In response, the formation of O_3 and PM in the atmosphere, as secondary pollutants,[3] involves complex chemical and physical interactions of multiple pollutants from natural and anthropogenic sources, as further explained below. The complexity in how secondary pollutants are formed and dispersed has resulted in ongoing difficulties in measuring and regulating those pollutants.

Tropospheric, or ground level O_3, is not emitted directly into the air, but is created by chemical reactions between NO_x and VOCs (EPA 2023c). This happens when pollutants emitted by cars, power plants, industrial boilers, refineries, chemical plants, and other sources chemically react in the presence of sunlight (EPA 2023c). O_3 is most likely to reach unhealthy levels on hot sunny days in urban environments, but can still reach high levels during colder months (EPA 2023c). O_3 can also be transported long distances by wind, so even rural areas can experience high O_3 levels (EPA 2023c).

The O_3 reaction is self-perpetuating (or catalytic) in the presence of sunlight because NO_2 is photochemically reformed from NO. In this way, O_3 is controlled by both NO_x and VOC emissions (NRC 2005). The complexity of these interacting cycles of pollutants means that incremental decreases in one emission may not result in proportional decreases in O_3 (NRC 2005). Although these reactions and interactions are well understood, variability in emission source operations and meteorology creates uncertainty in the modeled O_3 concentrations to which downwind populations may be exposed (NRC 2005). This is especially true for individual projects, like the project, where project-generated criteria air pollutant emissions are not solely derived from a single "point source," but also from mobile sources (cars and trucks), trains, off-road equipment, energy consumption, and area sources (consumer products, architectural coating, etc.).

In many urban areas, O_3 nonattainment is not caused by emissions from the local area alone (EPA 2008). Due to atmospheric transport, contributions of precursors from the surrounding region can also be important (EPA 2008, O_3 NAAQS). Thus, in designing control strategies to reduce O_3 concentrations in a local area, it is often necessary to account for regional transport within the U.S. (EPA 2008). In some areas, such as California, global transport of O_3 from beyond North America also can contribute to nonattainment areas (EPA 2008).

PM can be divided into two categories: directly emitted PM and secondary PM. Secondary PM, like O_3, is formed via complex chemical reactions in the atmosphere between precursor chemicals such as SO_x and NO_x (San Joaquin Valley APCD 2015). In general, PM_{10} is composed largely of primary particles, and a much greater portion of $PM_{2.5}$ contains secondary particles (EPA 2015b). The secondary formation of $PM_{2.5}$ is dominated by a variety of chemical species or components of atmospheric particles, such as ammonium sulfate, ammonium nitrate, organic carbon

[3] Air pollutants formed through chemical reactions in the atmosphere are referred to as secondary pollutants.

mass, elemental carbon, and other soil compounds and oxidized metals. $PM_{2.5}$, sulfate, nitrate, and ammonium ions are predominantly the result of chemical reactions of the oxidized products of SO_2 and NO_x emissions with direct ammonia emission (EPA 2017). Because of the complexity of secondary PM formation, including the potential to be transported long distances by wind, the tonnage of PM-forming precursor emissions in an area does not necessarily result in an equivalent concentration of secondary PM in that area (San Joaquin Valley APCD 2015).

Because of the long-range transport of some pollutants, important emission sources may be far from the locations where measured pollutant concentrations exceed the AAQS (NRC 2005). Thus, for areas experiencing higher ambient concentrations of pollutants, such as O_3 and PM, controlling emissions of those pollutants and their precursors is typically a regional, often multistate, problem, not a local one (NRC 2005).

San Joaquin Valley Air Pollution Control District and South Coast Air Quality Management District Briefs

In connection with the judicial proceedings culminating in issuance of the Friant Ranch decision, the San Joaquin Valley Air Pollution Control District (San Joaquin Valley APCD) and the South Coast AQMD filed amicus briefs attesting to the extreme difficulty of correlating an individual project's criteria air pollutant emissions to specific health impacts. Both the San Joaquin Valley APCD and the South Coast AQMD have among the most sophisticated air quality modeling and health impact evaluation capabilities of the air districts in the State. While the information and arguments presented in those briefs was considered by the California Supreme Court, the Court noted that such information was not part of the administrative record associated with the County's decision to approve the Friant Ranch project. A summary of the key, relevant points of the San Joaquin Valley APCD and South Coast AQMD briefs is provided below.

Difference between Toxic Air Contaminants and Criteria Air Pollutants

A TAC is an air pollutant, identified in regulation by CARB, which may cause or contribute to an increase in deaths or in serious illness, or which may pose a present or potential hazard to human health. TACs are considered under a different regulatory process (California Health and Safety Code section 39650 et seq.) than pollutants subject to CAAQS and NAAQS. Health effects to TACs may occur at extremely low levels and it is typically difficult to identify levels of exposure which do not produce adverse health effects. A criteria air pollutant, on the other hand, is an air pollutant for which acceptable levels of exposure can be determined and for which an AAQS has been set.

As the San Joaquin Valley APCD explained in their brief, "Although criteria air pollutants can also be harmful to human health, they are distinguishable from TACs and are regulated separately. The most relevant difference between criteria pollutants and TACs for purposes of this case is the manner in which human health impacts are accounted for. While it is common practice to analyze the correlation between an individual facility's TAC emissions and the expected localized human health impacts, such is not the case for criteria pollutants" (San Joaquin Valley APCD 2015). Unlike with TACs (where assessment occurs in conjunction with environmental analysis for individual projects), the human health impacts associated with criteria air pollutants are analyzed and taken into consideration when EPA sets the NAAQS for each criteria pollutant. (42 U.S.C. § 7409(b)(1).) The health impact of a particular criteria pollutant is analyzed on a regional and not a facility or individual project level based on how close the area is to complying with (attaining) the NAAQS (San Joaquin Valley APCD 2015). The San Joaquin Valley APCD concluded that while it is possible to perform a health impact analysis for TACs, which was done for construction and operation of the project as applicable to the activity areas, "it is not feasible to conduct a similar

analysis for criteria air pollutants because currently available computer modeling tools are not equipped for this task" (San Joaquin Valley APCD 2015).

Disconnect Between Mass and Concentration

Another important technical nuance is that health effects from air pollutants are related to the concentration of the air pollutant that an individual is exposed to, not necessarily the individual mass quantity of emissions associated with an individual project. For example, health effects from O_3 are correlated with increases in the ambient level of O_3 in the air a person breathes (South Coast AQMD 2015). However, it takes a large amount of additional precursor emissions to cause a modeled increase in ambient O_3 levels over an entire region (South Coast AQMD 2015).

For CEQA analyses, project-generated emissions are typically estimated in pounds per day or tons per year and compared to mass daily or annual emission thresholds. While CEQA thresholds are established at levels that the air basin can accommodate without affecting the attainment date for the AAQS, even if a project exceeds established CEQA significance thresholds, this does not mean that one can easily determine the concentration of O_3 or PM that will be created at or near the project site on a particular day or month of the year, or what specific health impacts will occur (San Joaquin Valley APCD 2015).

As the San Joaquin Valley APCD points out, the tonnage of PM "emitted does not always equate to the local PM concentration because it can be transported long distances by wind," and "[s]econdary PM, like O_3, is formed via complex chemical reactions in the atmosphere between precursor chemicals such as sulfur dioxides (SO_x) and NO_x," meaning that "the tonnage of PM-forming precursor emissions in an area does not necessarily result in an equivalent concentration of secondary PM in that area" (San Joaquin Valley APCD 2015). The disconnect between the tonnage of precursor pollutants (NO_x, SO_x and VOCs) and the concentration of O_3 or PM formed is important because it is not necessarily the tonnage of precursor pollutants that causes human health effects, but the concentration of resulting O_3 or PM (San Joaquin Valley APCD 2015). As discussed previously, the AAQS are established as concentrations of O_3 or PM and not as tonnages of their precursor pollutants (San Joaquin Valley APCD 2015). The disconnect between the amount of precursor pollutants and the concentration of O_3 or PM formed makes it difficult to determine potential health impacts, which are related to the concentration of O_3 and PM experienced by the receptor rather than levels of NO_x, SO_x, and VOCs produced by a source (San Joaquin Valley APCD 2015).

As discussed above, attainment of a particular AAQS occurs when the concentration of the relevant pollutant remains below a set threshold on a consistent basis throughout a particular region (San Joaquin Valley APCD 2015). Because the AAQS are focused on achieving a particular concentration of pollution region-wide, an air district's tools and plans for attaining the AAQS are regional in nature (San Joaquin Valley APCD 2015). For instance, the computer models used to simulate and predict an attainment date for the O_3 or PM NAAQS in the San Joaquin Valley are based on regional inputs, such as regional inventories of precursor pollutants (NO_x, SO_x and VOCs) and the atmospheric chemistry and meteorology of the San Joaquin Valley (San Joaquin Valley APCD 2015). At a very basic level, the models simulate future O_3 or PM levels based on predicted changes in precursor emissions San Joaquin Valley Air Basin-wide (San Joaquin Valley APCD 2015). Because the AAQS are set levels necessary to protect human health, the closer a region is to attaining a particular AAQS, the lower the human health impact is from that pollutant (San Joaquin Valley APCD 2015).

The goal of these modeling exercises is not to determine whether the emissions generated by a particular factory or development project will affect the date that the San Joaquin Valley Air Basin attains the AAQS (San Joaquin Valley APCD 2015). Rather, the San Joaquin Valley APCD's modeling and planning strategy is regional in nature and based on the extent to which all of the emission-generating sources in the San Joaquin Valley Air Basin (current and future) must be controlled in order to reach attainment (San Joaquin Valley APCD 2015).

Correlation to Health Effects

The San Joaquin Valley APCD ties the difficulty of correlating the emission of criteria pollutants to health impacts to how O_3 and PM are formed, as explained above. According to San Joaquin Valley APCD, "even once a model is developed to accurately ascertain local increases in concentrations of photochemical pollutants like O_3 and some particulates, it remains impossible, using today's models, to correlate that increase in concentration to a specific health impact [because] such models are designed to determine regional, population-wide health impacts, and simply are not accurate when applied at the local level" (San Joaquin Valley APCD 2015).

South Coast AQMD used O_3, which is formed from the chemical reaction of NO_x and VOCs in the presence of sunlight, as an example of why it is impracticable to determine specific health outcomes from criteria pollutants for all but very large, regional-scale projects. First, forming O_3 "takes time and the influence of meteorological conditions for these reactions to occur, so ozone may be formed at a distance downwind from the sources" (South Coast AQMD 2015). Second, "it takes a large amount of additional precursor emissions (NO_x and VOCs) to cause a modeled increase in ambient ozone levels over an entire region," with a 2012 study showing that "reducing NO_x by 432 tons per day (157,680 tons/year) and reducing VOC by 187 tons per day (68,255 tons/year) would reduce ozone levels at the South Coast AQMD's monitor site with the highest levels by only 9 parts per billion" (South Coast AQMD 2015). South Coast AQMD thus concludes that it "does not currently know of a way to accurately quantify O_3-related health impacts caused by NO_x or VOC emissions from relatively small projects" (South Coast AQMD 2015).

Essentially, South Coast AQMD takes the position that a project emitting only 10 tons per year of NO_x or VOC is small enough that its regional impact on ambient O_3 levels may not be detected in the regional air quality models that are currently used to determine O_3 levels; thus, in this case it would not be feasible to directly correlate project emissions of VOC or NO_x with specific health impacts from O_3 (South Coast AQMD 2015). Therefore, lead agencies that use South Coast AQMD 's thresholds of significance may determine that many projects have "significant" air quality impacts and must apply all feasible mitigation measures, yet will not be able to precisely correlate the project to quantifiable health impacts.

Effects on Number of Nonattainment Days

In regard to regional concentrations and air basin attainment, the San Joaquin Valley APCD emphasized that attempting to identify a change in background pollutant concentrations that can be attributed to a single project, even one as large as the entire Friant Ranch Specific Plan, is a theoretical exercise. The San Joaquin Valley APCD brief noted that it "would be extremely difficult to model the impact on NAAQS attainment that the emissions from the Friant Ranch project may have" (San Joaquin Valley APCD 2015). The situation is further complicated by the fact that background concentrations of regional pollutants are not uniform either temporally or geographically throughout an air basin, but are constantly fluctuating based upon meteorology and other environmental factors. As discussed above, the currently available modeling tools are equipped to model the impact of all emission sources in the San Joaquin Valley Air Basin on attainment (San Joaquin Valley APCD 2015). The San Joaquin Valley APCD

brief then indicated that, "Running the photochemical grid model used for predicting O_3 attainment with the emissions solely from the Friant Ranch project (which equate to less than one-tenth of one percent of the total NO_x and VOC in the Valley) is not likely to yield valid information given the relative scale involved" (San Joaquin Valley APCD 2015).

Sacramento Metropolitan Air Quality Management District

As previously discussed, the Sacramento Metropolitan AQMD is one of two California air districts to date to formally release guidance (Interim Recommendation in April 2019 and Final Guidance in October 2020) for lead agencies and practitioners preparing CEQA documents for projects to comply with the Friant Ranch decision. The Sacramento Metropolitan AQMD *Guidance to Address the Friant Ranch Ruling for CEQA Projects in the Sac Metro Air District* fully details how projects should address the Friant Ranch ruling within the 5-Air-District Region (i.e., Sacramento Metropolitan AQMD, Yolo-Solano AQMD, Placer County APCD, El Dorado County AQMD, and Feather River AQMD) (Sacramento Metropolitan AQMD 2020a). This guidance provides insight on the health effects that may result from a project emitting at the maximum thresholds of significance (TOS) levels in the 5-Air-District Region for NO_x, VOCs, and PM, in addition to levels of CO and SO_x calculated proportional to NO_x; provides look-up tables for estimating health effects for strategic areas where growth exceeding thresholds of significance is anticipated; provides modeling guidance for CEQA projects that have emissions in excess of the significance thresholds and are located outside the strategic areas modeled; and provides information on disclosing health effects in an overall health context in a CEQA document.

In support of the formal guidance, in December 2020, the Sacramento Metropolitan AQMD released the *Minor Project Health Effects Screening Tool* and *Strategic Area Project Health Effects Screening Tool* (Sacramento Metropolitan AQMD 2020b) which were developed to estimate health effects for proposed projects within the 5-Air-District Region. For the minor project tool, the user inputs the location of the proposed project in latitude and longitude coordinates using decimal degrees and the tool assumes the maximum TOS (i.e., 82 pounds per day of ROG, NO_x, and $PM_{2.5}$). For the strategic area project health effects tool, the user inputs estimated daily ROG, NO_x, and $PM_{2.5}$ emissions up to 8 times the TOS (i.e., 656 pounds per day of ROG, NO_x, and $PM_{2.5}$) as well as the representative strategic area location. The non-screening option the Sacramento Metropolitan AQMD guidance outlines is the same or similar approach taken in the six available HIAs noted below in "Health Impact Assessments" (i.e., using a PGM and BenMAP for a specific project).

Application of the Sacramento Metropolitan AQMD screening analysis is not appropriate for the project because activities and associated emissions largely occur outside of the region evaluated in the 5-Air-District guidance.

Bay Area Air Quality Management District

In 2022, the Bay Area AQMD released "health effects assessment for criteria air pollutants" guidance to address the Friant Ranch case as part of their 2022 CEQA Guidelines. The following text is the quoted from the Bay Area AQMD guidance (Bay Area AQMD 2022):

"To comply with the Friant Ranch decision, lead agencies need to sufficiently explain the nature and magnitude of significant impacts identified by criteria air pollutant and precursor air quality analyses such that readers can meaningfully understand them. Moreover, lead agencies must make a reasonable effort to connect a project's

emissions, where significant, to foreseeable health impacts or provide evidence as to why such an analysis is not scientifically possible.

To demonstrate compliance with the Friant Ranch decision, lead agencies should structure the analyses of criteria air pollutant and precursor impacts as follows:

1. Introduce and describe the potential adverse health effects related to exposure to various criteria air pollutants and precursors in exceedance of the NAAQS and CAAQS, both acutely and chronically.

2. Describe the development and use of mass emissions thresholds using substantial evidence provided in the Air District's thresholds justification report.

   > *Lead agencies must describe the rationale behind the thresholds of significance for evaluating criteria air pollutant and ozone precursor emissions (see Appendix A, Thresholds of Significance Justification). These project-level mass emissions thresholds are developed in consideration of long-term air quality planning in the SFBAAB and are designed to capture excess emissions that would inhibit attainment of the NAAQS and CAAQS for various pollutants. Projects that exceed these mass emissions thresholds, whether before mitigation or following application of mitigation measures, may contribute emissions that would degrade the ambient air quality of the SFBAAB and expose receptors to concentrations of criteria air pollutants found by EPA and CARB to be hazardous to human health. Lead agencies must make a good-faith effort to explain the connection between the thresholds of significance, long-term air quality planning, NAAQS and CAAQS, and the potential for adverse human health impacts to occur from a project's emissions contribution given that neither the NAAQS or CAAQS are not health impact thresholds below which no significant health impacts are expected.*

3. Provide a meaningful and understandable narrative of ozone and secondary PM formation.

4. Explain the approach used, including the applicability and limitations of modeling tools, to translate project emissions into health impacts or explain why it was not scientifically feasible to do so.

   > *Various modeling tools are available to estimate project-level emissions (e.g., CalEEMod). Additionally, EMFAC generates emissions estimates from transportation sources using factors that account for various state and federal regulations that affect gasoline and diesel fuel consumption, as well as the deployment of electric vehicles throughout the state. However, these models do not predict the locations of exceedances of the NAAQS or CAAQS from one project's emissions alone.*
   >
   > *Photochemical grid-based models simulate the chemical interactions and three-dimensional dispersion patterns on a regional, statewide, and national scale. These models are complex and require significant expertise, knowledge, and resources as they build on other third-party models and processing tools that characterize meteorology, emissions, and other environmental conditions, such as land cover, radiative properties, and boundary conditions. Use of these models is typically beyond the resources available for air quality analysis prepared pursuant to CEQA, and even if such an analysis was to be completed consideration would need be given to ensure the results would be meaningful based on modeling and data limitations.*

> *The Environmental Benefits Mapping and Analysis Program (BenMAP) is an open-source computer program that calculates the number and economic value of air pollution–related death and illnesses. BenMAP relies on national data such as age, health, and economic conditions, to characterize and map health impacts associated with air pollution exposure. Data applicability should be considered to determine whether the model may be appropriate for an air quality analysis prepared pursuant to CEQA and if such an analysis would provide meaningful results based on modeling and data limitations.*

5. If scientifically feasible, tie the project's emissions to potential negative health impacts if emissions would exceed mass emissions thresholds, both before and after implementing mitigation measures."

City of Los Angeles

The City of Los Angeles Department of City Planning, along with its Technical Advisory Panel of air quality consultants, prepared a guidance document on Air Quality and Health Effects to address the Friant Ranch case. The City of Los Angeles's Health Effects guidance document includes an introduction, background and methodology that discusses CEQA thresholds of significance and available models, various air quality and health effects considerations including health effects addressed in plans and regulatory standards, health effects of criteria pollutants and TACs, and relating adverse air quality impacts and health effects conclusions.

The introduction explains that, "This paper provides information to the public regarding health consequences associated with exposure to air pollutants and explains why direct correlation of a project's pollutant emissions and anticipated health effects is currently infeasible, as no expert agency has approved a quantitative method to reliably and meaningfully translate mass emission estimates of criteria air pollutants to specific health effects for the scale of projects typically analyzed in City EIRs" (City of Los Angeles 2019).

The City's guidance continues to state that, "directly correlating a single project's emissions in a typical City EIR to quantifiable human health consequences is currently not scientifically feasible, as it is not possible to conduct such an analysis that would provide reliable or meaningful results. … it is also infeasible to correlate regional emissions from local area-wide projects or plans identified in City EIRs to quantified human health consequences in any reliable or meaningful way, for many of the same reasons, and with additional challenges associated with separating and anticipating reasonably foreseeable emissions from other sources." (City of Los Angeles 2019)

Association of Environmental Professionals – Climate Change Committee

The California Association of Environmental Professionals Winter 2020 Environmental Monitor newsletter included an article titled, "We Can Model Regional Emissions, But Are the Results Meaningful for CEQA?" written by members of the AEP Climate Change Committee, which consists of air quality and climate change experts at environmental consulting firms. The article addresses the Friant Ranch case and HIAs that use PGMs and BenMAP to estimate health impacts from increases in concentrations of O_3 and $PM_{2.5}$.

The article acknowledges that it is technically feasible to conduct regional-scale criteria air pollutant modeling for an individual project, but highlights the limitations of regional-scale dispersion models such as low resolution and spatial averaging that produces "noise" and model uncertainty that can exceed a project's specific emissions, and that regional-scale models are highly contingent upon background concentrations where factors such as

meteorology and topography greatly affect the certainty levels of predicted concentrations at receptor points. As a result, there are statistical ranges of uncertainty through all the modeling steps. Due to these factors, it is difficult to predict ground-level secondary PM and O_3 concentrations associated with relatively small emission sources with a high degree of certainty. (AEP 2020)

The article also highlights limitations and uncertainties of BenMAP. For example, regional models assign the same toxicity to PM regardless of the source of PM (such as road dust and exhaust), and thus potentially overpredict adverse health effects of PM. BenMAP also assumes that health effects can occur at any concentration, including small incremental concentrations, and assumes that impacts seen at large concentration differences can be linearly scaled down to small increases in concentration, with no consideration of potential thresholds below which health impacts may not occur. Additionally, BenMAP is used for assessing impacts over large areas and populations and was not intended to be used for individual projects. For health incidences, the number of hospitalizations or increase in morbidity predicted by BenMAP is greatly affected by the population characteristics. The article explains that small increases in emissions in an area with a high population have a much greater affect than large increases in emissions over an area with a small population. As a result, the same amount of emissions generated in an urban area could result in greater health consequences than if the same emissions occurred on the urban periphery, where fewer people may be affected. (AEP 2020)

The article then concludes that, "Given the margin of uncertainty at each step in the process (regional scale modeling, existing ambient air quality effects on health, population health conditions vulnerability, and marginal health effects of air pollution), the identification of marginal health effects due to individual projects using regional air quality modelling and tools such as BenMap are likely to be within the level of uncertainty and thus defined as "speculative" per CEQA" (AEP 2020).

Health Impact Assessments

At the time of writing, no specific tools have been developed for use in CEQA documents to connect criteria air pollutant emissions from an individual project to specific health effects in response to Friant Ranch outside of the Sacramento Metropolitan AQMD guidance 5-AirDistrict region. However, it has been demonstrated to be technically feasible to use existing regional models and an existing health effect modeling program to evaluate individual projects, which has been conducted for a few projects. The following CEQA documents included a quantitative HIA to address Friant Ranch:

1. California State University Dominguez Hills 2018 Campus Master Plan EIR (CSUDH MP) (Cal State University Dominguez Hills 2019)

2. World Logistics Center Revised Final EIR (WLC) (Moreno Valley 2019)

3. March Joint Powers Association K4 Warehouse and Cactus Channel Improvements EIR (March JPA K4) (March JPA 2019)

4. San Diego State University Mission Valley Campus Master Plan EIR (SDSU) (San Diego State University 2019)

5. Mineta San Jose Airport Amendment to the Airport Master Plan EIR (San Jose Airport) (City of San Jose 2019)

6. City of Inglewood Basketball and Entertainment Center Project EIR (IBEC) (City of Inglewood 2019)

The first step in all the six above listed examples included running a regional PGM, such as the Community Multiscale Air Quality (CMAQ)[4] model or the Comprehensive Air Quality Model with extensions (CAMx)[5] to estimate the increase in concentrations of O_3 and $PM_{2.5}$ as a result of project-generated emissions of criteria and precursor pollutants. Air districts use photochemical air quality models for regional air quality planning. These photochemical models are large-scale air quality models that simulate the changes of pollutant concentrations in the atmosphere using a set of mathematical equations characterizing the chemical and physical processes in the atmosphere (EPA 2023d).

After estimating the increase in concentrations of O_3 and $PM_{2.5}$, the second step in the six examples includes use of BenMAP or BenMAP-CE to estimate the resulting associated health effects. BenMAP estimates the number of health incidences resulting from changes in air pollution concentrations (EPA 2023f). The health impact function in BenMAP-CE incorporates four key sources of data: (i) modeled or monitored air quality changes, (ii) population, (iii) baseline incidence rates, and (iv) an effect estimate. While BenMAP can estimate the health effects of emissions of VOC, NO_x, CO, SO_2, and $PM_{2.5}$, O_3 and $PM_{2.5}$ were determined to have the most critical health impacts and thus, were the pollutants evaluated to determine the project's health effects in four of the six examples (i.e., WLC, CSUDH MP, March JPA K4, and San Jose Airport). The current version of BenMAP-CE only has health impact functions associated with O_3 and $PM_{2.5}$, which is why the example HIAs using BenMAP-CE only quantitatively addressed O_3 and $PM_{2.5}$ related health outcomes. As such, all example HIAs focused on O_3 and $PM_{2.5}$.

BenMAP outputs include O_3- and PM-related health endpoints such as premature mortality, hospital admissions, and emergency room visits (City of San Jose 2019). BenMAP uses the following simplified formula to relate changes in ambient air pollution to certain health endpoints (City of San Jose 2019):

$$Health\ Effect = Air\ Quality\ Change \times Health\ Effect\ Estimate \times Exposed\ Population \times Background\ Health\ Incidence$$

Population characteristics are a key variable in the BenMAP estimate of health incidences. As such, small increases in emissions in an area with a high population may have a much greater affect than large increases in emissions over an area with a small population. While location and associated population is a key factor, making the six examples specific not only to the project-generated emissions, but also to the geographic location and underlying population estimates, the findings of the six examples are provided herein for context, particularly for the conclusions.

[4] The CMAQ modeling system includes state-of-the-science capabilities for conducting urban-to-regional-to-hemispheric scale simulations of multiple air quality issues, including tropospheric O_3, fine particles, TACs, acid deposition, and visibility degradation. CMAQ brings together three kinds of models: (1) Meteorological models to represent atmospheric and weather activities, (2) Emission models to represent man-made and naturally-occurring contributions to the atmosphere, and (3) An air chemistry-transport model to predict the atmospheric fate of air pollutants under varying conditions (EPA 2023e).

[5] CAMx is a three-dimensional grid-based Eulerian air quality model designed to estimate the formation and fate of oxidant precursors, primary and secondary particulate matter concentrations, and deposition over regional and urban spatial scales (e.g., over the contiguous U.S.) (EPA 2015a).

California State University Dominguez Hills 2018 Campus Master Plan EIR For the CSUDH MP, the proposed project retains the existing campus enrollment cap of 20,000 full-time-equivalent students, while providing a framework for development of the CSUDH's campus in a forward-looking manner that accommodates growth from the current enrollment of approximately 11,000 full-time-equivalent students to the maximum enrollment of 20,000 full-time-equivalent students over a planning horizon extending to 2035. The project is located within Los Angeles County within the South Coast Air Basin. For context, the maximum daily emissions of relevant pollutants generated by the CSUDH MP were estimated to be 482.6 pounds per day of VOC, 240.1 pounds per day of NO_x, 2.7 pounds per day of SO_2, and 79.5 pounds per day of $PM_{2.5}$.

The CSUDH MP presented HIA results in terms of an increase in health incidences and the increase in background health incidence for various health outcomes referred to as endpoints. The background health incidence is the actual incidence of health effects as measured in the local population in the absence of additional emissions from the project (CSUDH 2019).

The two highest $PM_{2.5}$-related health outcomes attributed to the CSUDH MP project-related increases in ambient air concentrations included mortality (10.31 incidences per year, 0.0032% in background health incidence) and asthma-related emergency room visits (4.38 incidences per year, 0.0033% in background health incidence). The remaining health endpoints, including asthma-related hospital admissions, all cardiovascular-related hospital admissions (not including myocardial infarctions), all respiratory-related hospital admissions, and nonfatal acute myocardial infarction ranged from 0.00044 to 2.44 incidences per year (0.00047% to 0.0014% in background health incidence) (CSUDH 2019).

O_3-related health outcomes attributed to the CSDUDH project-related increases in ambient air concentrations included respiratory-related hospital admissions (0.67 incidences per year, 0.00034% in background health incidence), mortality (0.28 incidences per year, 0.00013% in background health incidence), and asthma-related emergency room visits for any age range (lower than 3.38 incidences per year for all age groups, lower than 0.0058% percent in background health incidence for all age groups) (CSUDH 2019).

The CSUDH MP HIA then concluded that "for all these health endpoints, the number of estimated incidences is less than 0.0058% of the background health incidence. … When taken into context, the small increase in incidences and the very small percent of the number of background incidences indicate that these health impacts are negligible in a developed, urban environment" (CSUDH 2019).

World Logistics Center Revised Final EIR

The WLC is located within Moreno Valley within Riverside County and the South Coast Air Basin. The WLC assessed the construction and operation of 40,600,00 square feet of logistics facilities and associated infrastructure on 2,610 acres in the Rancho Belago area at the eastern end of Moreno Valley. For context, the maximum daily emissions of relevant pollutants generated by the WLC during combined construction and operations (unmitigated) were estimated to be 603 pounds per day of VOC, 1,818 pounds per day of NO_x, 10.07 pounds per day of SO_2, 1,150 pounds per day of CO, and 137 pounds per day of $PM_{2.5}$. With mitigation, the combined WLC construction and operations were estimated to generate 495 pounds per day of VOC, 1,459 pounds per day of NO_x, 10.07 pounds per day of SO_2, 1,238 pounds per day of CO, and 133 pounds per day of $PM_{2.5}$.

The two highest $PM_{2.5}$-related health outcomes attributed to the WLC project-related increases in ambient air concentrations from unmitigated emissions included mortality (15.19 incidences per year, 0.0047% in background

health incidence) and asthma-related emergency room visits (6.63 incidences per year, 0.0051% in background health incidence). The remaining health endpoints, including asthma-related hospital admissions, all cardiovascular-related hospital admissions (not including myocardial infarctions), all respiratory-related hospital admissions, and nonfatal acute myocardial infarction ranged from 0.52 to 3.17 incidences per year (0.00063% to 0.0029% in background health incidence) (Moreno Valley 2019).

O_3-related health outcomes attributed to the WLC project-related increases in ambient air concentrations from unmitigated emissions included respiratory-related hospital admissions (1.46 incidences per year, 0.00075% in background health incidence), mortality (0.69 incidences per year, 0.00033% in background health incidence), and asthma-related emergency room visits for any age range (lower than 8.20 incidences per year for all age groups, lower than 0.014% percent in background health incidence for all age groups) (Moreno Valley 2019).

The WLC HIA then concluded that "when taken into context, the small increase in incidences and the very small percent of the number of background incidences indicate that these health impacts are minimal in a developed, urban environment" (Moreno Valley 2019).

March Joint Powers Association K4 Warehouse and Cactus Channel Improvements EIR

The March JPA K4 project is located within Riverside County within the South Coast Air Basin. The proposed project involves the development of the five parcels on the 35.4-acre K4 Parcel with a 718,000-square-foot building conservatively assumed to be occupied by High-Cube ecommerce/fulfillment center use. The mitigated maximum daily operational emissions of relevant pollutants generated by the March JPA K4 were estimated to be 41.0 pounds per day of VOC, 253.0 pounds per day of NO_x, 1.4 pounds per day of SO_x, and 30.3 pounds per day of $PM_{2.5}$. The March JPA K4 HIA determined that, "for all these health endpoints, the number of estimated incidences is less than 0.0042% of the baseline number of incidences," and that "these health impacts are conservatively estimated, and the actual impacts may be zero" (March JPA 2019).

San Diego State University Mission Valley Campus Master Plan EIR

The SDSU project is located within the City of San Diego within the San Diego Air Basin. The SDSU project proposes construction and operation of the SDSU Mission Valley campus, stadium, parks, recreation, and innovation area to accommodate up to 15,000 full-time-equivalent students over time, resulting in a total student headcount of approximately 20,000 students. The maximum daily emissions of relevant pollutants generated by SDSU were estimated to be 314.1 pounds per day of VOC, 1,120.7 pounds per day of NO_x, 6.5 pounds per day of SO_2, and 205.9 pounds per day of $PM_{2.5}$ (SDSU 2019).

The $PM_{2.5}$-related health outcomes attributed to the SDSU project-related increases in ambient air concentrations included mortality (8.97 incidences per year, 0.0026% in background health incidence) and asthma-related emergency room visits (5.29 incidences per year, 0.0040% in background health incidence). The remaining health endpoints, including asthma-related hospital admissions, all cardiovascular-related hospital admissions (not including myocardial infarctions), all respiratory-related hospital admissions, and nonfatal acute myocardial infarction ranged from 0.00083 to 3.33 incidences per year (0.00223% to 0.00164% in background health incidence) (SDSU 2019).

O_3-related health outcomes attributed to the SDSU project-related increases in ambient air concentrations included respiratory-related hospital admissions (0.45 incidences per year, 0.0002% in background health incidence),

mortality (0.21 incidences per year, 0.00010% in background health incidence), asthma-related emergency room visits for age groups 0-17 (1.73 incidences per year, 0.003% percent in background health incidence), and asthma-related emergency room visits for age groups 18-99 (2.02 incidences per year, 0.002% percent in background health incidence) (SDSU 2019).

The SDSU HIA found that "health effects estimation using the log-linear method presumes that effects seen at large concentration differences can be linearly scaled down to small increases in concentration, with no consideration of potential thresholds below which health effects may occur; thus, this potentially overstates the potential effects. In summary, health effects are conservatively estimated, and the actual effects may be zero" (SDSU 2019).

Mineta San Jose Airport Amendment to the Airport Master Plan EIR

The San Jose Airport is located in Santa Clara County within the San Francisco Bay Area Air Basin. The San Jose Airport project includes amending the approved 2018 Airport Master Plan to a) shift the planning horizon year from 2027 to 2037, b) modifying future facility requirements at the airport to reflect updated demand forecasts, and c) modifying certain components of the airfield to reduce to potential for runway incursions (City of San Jose 2019). The estimated maximum daily incremental operational emissions of relevant pollutants generated by the San Jose Airport project were estimated to be -49.4 pounds per day of VOC, 5,325 pounds per day of NO_x, and 52 pounds per day of $PM_{2.5}$. However, the following emissions inventory was assumed for the HIA: 57.3 pounds per day of VOC, 5,643.0 pounds per day of NO_x, and 51.6 pounds per day of $PM_{2.5}$.

The San Jose Airport HIA estimated that the highest health endpoint from $PM_{2.5}$ was mortality at 4.46 incidences (0.0017% percent in background health incidence). All other $PM_{2.5}$-related health incidences ranged from 0.00022 to 1.89 (0.00027% to 0.0016% percent in background health incidence). For O_3-related health endpoints, the highest was emergency room visits for asthma, which was estimated to be 11.05 incidences (0.028% percent in background health incidence) for ages 0-17 and 14.59 incidences (0.019% percent in background health incidence) for ages 18-99 (City of San Jose 2019). Of the six examples discussed herein, the San Jose Airport resulted in the greatest O_3 incidences, which correlates with the estimated high emissions of O_3-precursors, specifically NO_x at 5,643 pounds per day. Nonetheless, the conclusion was that "when taken into context, the small increase in incidences and the very small percent of the number of background incidences indicate that these health impacts are negligible in a developed, urban environment" (City of San Jose 2019).

City of Inglewood Basketball and Entertainment Center Project EIR

The IBEC project HIA provides another important data point for consideration. The IBEC project consists of an arena designed to host the LA Clippers basketball team with up to 18,000 fixed seals for National Basketball Association games and up to 500 additional temporary seats for events such as family shows, concerts, conventions, corporate events, and non-LA Clippers sporting events. The IBEC project is located within Los Angeles County within the South Coast Air Basin. The IBEC EIR evaluated nine operational scenarios; across these multiple scenarios, the estimated maximum daily net increase in operational emissions of relevant pollutants was 94 pounds per day of VOC, 99 pounds per day of NO_x, 3 pounds per day of SO_x, and 89 pounds per day of $PM_{2.5}$.

The IBEC EIR analysis provided helpful context on using regional models for individual projects, as follows: "Generally, models that correlate criteria air pollutant concentrations with specific health effects focus on regulatory decision-making that will apply throughout an entire air basin or region. These models focus on the region-wide health effects of pollutants so that regulators can assess the costs and benefits of adopting a proposed regulation

that applies to an entire category of air pollutant sources, rather than the health effects related to emissions from a specific proposed project or source. Because of the scale of these analyses, any one project is likely to have only very small incremental effects which may be difficult to differentiate from the effects of air pollutant concentrations in an entire air basin. … For regional pollutants, it is difficult to trace a particular project's criteria air pollutant emissions to a specific health effect. Moreover, the modeled results may be misleading because the margin of error in such modeling is large enough that, even if the modeled results report a given health effect, the model is sufficiently imprecise that the actual effect may differ from the reported results; that is, the modeled results suggest precision, when in fact available models cannot be that precise on a project level" (City of Inglewood 2019).

For O_3-related health endpoints, emergency room visits for asthma was estimated to be 0.087 incidence per year for all studied age groups combined, 0.016 incidence per year of respiratory-related hospital admissions, and less than 0.02 incidence per year of mortality; the amount of estimated incremental health effects incidence is less than 0.0001% of the baseline number of health effects incidences in the study area.

A key finding from the IBEC HIA was that for $PM_{2.5}$-related health endpoints, due to the very small changes in ambient $PM_{2.5}$ concentrations as modeled by CMAQ, all of the estimated incremental health incidences were negative values. The IBEC HIA stated that this further confirms that the modeled $PM_{2.5}$ concentrations are within the model's margin of error, no meaningful conclusions can be reached on the specific health effects that may be caused by the proposed project O_3 precursor and $PM_{2.5}$ emissions, and health impacts may in fact be zero, and they would still be well within the models' margin of error (City of Inglewood 2019).

Summary

It is also important to note that while these results conclude that the project emissions do not result in a substantial increase in health incidences, the estimated emissions and assumed toxicity is also conservatively inputted into the HIA and thus, overestimate health incidences, particularly for $PM_{2.5}$. For example, as discussed in the San Jose Airport HIA, "the USEPA has also stated that results from various studies have shown the importance of considering particle size, composition, and particle source in determining the health impacts of PM. Further, USEPA found that studies have reported that particles from industrial sources and from coal combustion appear to be the most significant contributors to PM-related mortality, consistent with the findings by Rohr and Wyzga and others. This is particularly important to note here, as the majority of PM emissions generated from the project are from entrained roadway dust, and not from combustion. Therefore, by not considering the relative toxicity of PM components, the results presented here are conservative" (City of San Jose 2019).

As explained in the San Joaquin Valley APCD brief and noted previously, running the PGM used for predicting O_3 attainment with the emissions solely from an individual project like the Friant Ranch project or the project is not likely to yield valid information given the relative scale involved. The six examples discussed herein support the San Joaquin Valley APCD's brief contention that consistent, reliable, and meaningful results may not be provided by methods applied at this time. Accordingly, additional work in the industry and more importantly, air district participation, is needed to develop a more meaningful analysis to correlate project-level mass criteria air pollutant emissions and health effects for decision makers and the public. Furthermore, at the time of writing, none of the HIAs that were reviewed has concluded that health effects estimated using the PGM and BenMAP approach are substantial provided that the estimated project-generated incidences represent a very small percent of the number of background incidences, potentially within the models' margin of error.

Co-Benefits Risk Assessment Health Impacts Screening and Mapping Tool

The U.S. EPA's COBRA health impacts screening and mapping tool can explore how changes in air pollution, specifically $PM_{2.5}$ and O_3, from a policy, program, or other action can affect human health at the county, state, regional, or national levels. COBRA also estimates the economic value of the health benefits associated with changes in air pollution. COBRA can map and visually represent the air quality, human health, and health-related economic impacts from emissions of $PM_{2.5}$, SO_2, NO_X, NH_3, and VOCs that result from an action. Built into COBRA are emissions inventories, a simplified air quality model, health impact equations, and economic valuations ready for use, based on assumptions that the U.S. EPA currently uses as reasonable best estimates (EPA 2024a).

COBRA estimates changes in total annual ambient concentrations of $PM_{2.5}$, including primary $PM_{2.5}$ emissions and the formation of secondary $PM_{2.5}$ from precursor pollutants, such as SO_2, NO_x, NH_3, and VOCs. With the release of version 5.0 in 2024, COBRA now also estimates the impacts of changes in O_3 formation as a result of changes in pollutants assessed by the model, specifically NO_x and VOCs. COBRA uses a series of health impact functions, taken from the peer-reviewed epidemiological literature, to estimate how changes in outdoor air quality result in changes in the incidence of a variety of health outcomes (e.g., premature mortality, heart attacks, asthma exacerbation, lost workdays). Incidence refers to the number of new cases of a health outcome over a specified time period. Finally, COBRA multiplies the change in incidence for each health outcome by a monetary value specific to that outcome. COBRA outputs the Health Effects and Valuation Results which includes a table of nationwide results as COBRA calculates health benefits in all counties in the contiguous United States due to the transport of outdoor air pollutants between counties and states. Accordingly, results are available for a particular state or county and are also provided in map form. Both the table and the map provide county-level changes in air quality (e.g., total annual average $PM_{2.5}$ concentration in $\mu g/m^3$), incidence of each health endpoint, and associated economic values. COBRA provides estimates on changes in mortality, infant mortality, nonfatal heart attacks, respiratory hospital admissions, cardiovascular hospital admissions, acute bronchitis, emergency room visits, work loss days, and asthma exacerbation. (EPA 2024a)

The change in incidence is not necessarily a whole number because COBRA calculates small statistical risk reductions that are then aggregated over the entire population. Estimates of health impacts have a direct relationship with population density: areas with higher population density tend to see higher health benefits of reduced emissions than less dense areas (EPA 2024a). This is because there are more people breathing cleaner air in the areas with higher population density. The reverse would also be true where areas with higher population density tend to see higher adverse health consequences of increased emissions compared to less dense areas.

COBRA contains detailed emission estimates of $PM_{2.5}$, SO_2, NO_X, and VOCs for the year 2016, and detailed projections for 2023 and 2028 as developed by the U.S. EPA. Users create their own scenario by specifying increases or decreases to one of the three baseline emission estimates - 2016, 2023, or 2028 (EPA 2024a). These baselines account for federal and state regulations as of May 2018.

EPA states that those who should use COBRA includes but is not limited to "analysts looking to improve their understanding of the air, health, and related economic benefits of clean energy or other policies that reduce emissions" and "environmental agencies interested in reviewing many options to identify policies that maximize health and economic benefits" (EPA 2024b). COBRA was originally developed by Abt Associates Inc. in 2002 and updated in 2012, 2017, 2020, 2021, and 2024 (EPA 2024a). COBRA is based on rigorous methods used by EPA health benefits assessments and adapted for use as a screening model.

Based on the EPA records of COBRA citations, it was used by at least approximately 150 publications as of April 24, 2024. Many of the publications evaluated programs, policies, or large areas of potential effect such as statewide efforts. The only environmental analysis was an Environmental Impact Statement for New York State's procurement of offshore wind energy; no CEQA analyses were cited (EPA 2024c). This publication list supports EPA's statement that COBRA is a valid modeling tool for state and local governments to (1) better understand the potential for clean energy to enhance air quality, health, and well-being, (2) design or select program options that maximize benefits, (3) build support for clean energy investments based on the air quality and health benefits, (4) narrow a list of policy options to those that should be evaluated using more sophisticated air quality models, (5) present information about localized health benefits in easy–to–interpret tables and maps, and (6) support a balanced decision-making process that considers both the potential costs and benefits of policy options (EPA 2024d). However, this publication list also supports that COBRA is better fit for broad analyses, such as policies and programs undertaken by state governments, rather than a CEQA analysis for an individual project.

In EPA's COBRA Questions and Answers, it addresses the question of "what is the difference between COBRA and BenMAP?" (BenMAP described in the above sections) and states that, "The key difference between BenMAP and COBRA is that COBRA has a built-in, reduced-form air quality model, while BenMAP does not. To convert changes in air pollution to changes in air quality, a tool will need an air quality model. Because BenMAP does not have this built-in model, it requires inputs of the changes in air quality rather than emissions. BenMAP users can utilize standalone air quality models, such as the Community Multi-scale Air Quality Model (CMAQ), to determine air quality changes. Additionally, BenMAP can be used to analyze health impacts at a finer geographic resolution than COBRA, depending on the scale of the air quality data that users provide. BenMAP also includes preloaded population and baseline health incidence data forecasts for all years out to 2050. COBRA only analyzes health impacts at the county-level and baseline health incidence data for 2016, 2023, and 2028. However, the desktop edition of COBRA also has advanced features that allow the user to import inputs for other years. Apart from these differences, COBRA and BenMAP both use the same approach to estimating health impacts, and both tools use the same default concentration-response functions and economic valuation functions for their calculations." (EPA 2024e)

5 Evaluation of the Project's Health Effects

Based on the evaluation of methods available provided in Section 4, this evaluation does not attempt to quantify health effects, but builds upon the discussion provided in Sections 2 and 3 to disclose potential health effects associated with the project. As explained in Section 2, the EPA and CARB have established AAQS at levels above which concentrations could be harmful to human health and welfare, with an adequate margin of safety. Further, California air districts have established emission-based thresholds that provide project-level estimates of criteria air pollutant quantities that air basins can accommodate without affecting the attainment dates for the AAQS. Accordingly, elevated levels of criteria air pollutants as a result of a project's emissions could cause adverse health effects associated with these pollutants.

Construction and operation of the project would not result in exceedances of regional thresholds for emissions of VOCs, NO_x, CO, PM_{10}, and $PM_{2.5}$.

As discussed in above, health effects associated with O_3 include respiratory symptoms, worsening of lung disease leading to premature death, and damage to lung tissue. VOCs and NO_x are precursors to O_3 and the contribution of VOCs and NO_x to regional ambient O_3 concentrations is the result of complex photochemistry. The increases in O_3 concentrations due to O_3 precursor emissions tend to be found downwind of the source location because of the

time required for the photochemical reactions to occur. Further, 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 NAAQS and CAAQS tend to occur between April and October when solar radiation is highest. As described above, due to the lack of quantitative methods to assess this complex photochemistry, the holistic effect of a single project's emissions of O_3 precursors is speculative.

Health effects associated with NO_x and NO_2 (which is a constituent of NO_x) include lung irritation and enhanced allergic responses. Project-related NO_x emissions would not exceed the applicable NO_x thresholds. However, all those air districts are designated as attainment areas for NO_2 (and NO_2 is a constituent of NO_x). Accordingly, project-generated NOx emissions may not cause an exceedance of the NAAQS and CAAQS for NO_2 or result in potential health effects associated with NO_2 and NO_x.

Health effects associated with CO include chest pain in patients with heart disease, headache, light-headedness, and reduced mental alertness. CO tends to be a localized impact associated with congested intersections. The potential for CO hotspots is discussed under Impact AQ-3 in the main report and determined to be less than significant. Thus, the project's CO emissions would not contribute to significant health effects associated with CO.

Health effects associated with PM_{10} and $PM_{2.5}$ include premature death and hospitalization, primarily for worsening of respiratory disease. Project-related PM_{10} emissions would not exceed the applicable PM_{10} threshold.

While the above scientific and technological constraints present considerable doubt that quantifying health effects for individual CEQA projects may not accurately and meaningfully inform the public of how project-generated bare numbers (i.e., estimated criteria air pollutant emissions) translate to create potential adverse health effects, due to the size and scale of the project, additional analysis is presented below for emissions occurring within Lassen County, Tuolumne County, and San Joaquin County, where the two pellet facilities and the Port of Stockton are located, respectively, as well as for all project emissions within the State.

Co-Benefits Risk Assessment Health Impacts Screening and Mapping Tool Results

To estimate the potential health effects of the project, the US EPA's COBRA screening model was used to estimate how changes in air pollution from the project can affect human health at the county, state, regional, or national levels (EPA 2021). (COBRA is explained in detail above). The analysis year of 2028 was selected in COBRA as it is closest to the operational year in the project. Fresno County was selected for the location. To support this CEQA evaluation, the national level change in incidents rate was not included. The emissions estimated using the methodologies in Section 2.4.2 of the main report were assumed for each location. As this tool is based on long-term exposure and health effects, emissions from operation were used. A discount rate of 2% was selected as it is the default. COBRA assumes changes in adult mortality and non-fatal heart attacks occur over a 20-year period.

For Fresno County,[6] O_3 and $PM_{2.5}$ related health outcomes attributed to project-related increases in ambient air concentrations included asthma-related emergency room visits (0.00003 incidences per year), lung cancer incidence (0.000003 incidences per year), all cardiovascular-related hospital admissions (not including myocardial infarctions) (0.000002 incidences per year), all respiratory-related hospital admissions (0.0001 incidences per

[6] The COBRA inputs for mitigated annual criteria air pollutant emissions within Fresno County include the following: 0.02 per year VOC, 0.01 tons per year NO_x, 0.0004 tons per year SO_2, and 0.01 tons per year $PM_{2.5}$.

year), mortality (0.00004 incidences per year), and nonfatal acute myocardial infarction (less than 0.00003 incidences per year for all age groups). For context, between 2020-2022, the CDPH reported that Fresno County had an annual average of 6,890 mortalities from all causes and an age-adjusted death rate of 870.2 mortalities per 100,000 population (CDPH 2024).

In summary, although the project has the potential to result in health effects associated with emissions of criteria air pollutants as described above, there are numerous scientific and technological complexities associated with correlating criteria air pollutant emissions from an individual project to specific health effects or potential additional nonattainment days, and methods available to quantitatively evaluate health effects may not be appropriate to apply to emissions associated with the project, which cannot be estimated with a high-level of accuracy. Nonetheless, additional information is provided to support impact conclusions in the air quality analysis that explains what is known and what is not given constraints.

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D2 BESS Charging Memorandum

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memorandum

date	July 10, 2025
to	Janna Scott, Project Manager
cc	File
from	Matt Fagundes, GHG Analyst
subject	Heartland Solar Project

Discussion

The Heartland Solar Project would include an energy storage facility with a capacity of 4 hours of 300 megawatts alternating current (MWac). In other words, the energy storage facility would be able to discharge up to 4 hours of 300 MWac power to the PG&E electricity grid every day. However, energy storage facilities are not completely efficient, meaning more electricity must be charged to the system than can be later discharged. Round-trip efficiency is the percentage of electricity put into storage that can be retrieved later. The higher the round-trip efficiency, the less energy is lost in the storage process. According to data from the U.S. Energy Information Administration, in 2019, the U.S. utility-scale battery fleet operated with an average monthly round-trip efficiency of 82 percent (TEF, 2025). Therefore, assuming this round-trip efficiency, the proposed system would require a charge of approximately 4.9 hours in order to later discharge 4.0 hours. This would result in a net consumption of PG&E grid electricity of approximately 0.9 hour per day or 320 hours per year of 300 MWac, which would equal approximately 96,146 megawatt hours (MWh)/year (see attached for calculations).

Applying GHG intensity factors per MWh used in the Heartland Solar AQ-GHG Technical Report (Dudek, 2025; see PDF page 365) to estimate displaced GHG emissions that would be associated with the Heartland Solar Plant, it is estimated that the total indirect GHG emissions generated associated with the net electricity consumption for the proposed energy storage facility would total approximately 46,992 metric tons of carbon dioxide equivalent (CO_2e) over the 30-year life of the Project, which would equal an amortized rate of approximately 1,566 metric tons CO_2e per year. Refer to the attachment for the energy and indirect GHG estimates that would be associated with the proposed Heartland Solar Project energy storage facility.

Energy and Indirect GHG Estimates

See tables attached.

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year	GHG Intensity Factors lbs CO2e/MWh	Emissions CO2e (metric tons)
2027	142.61	0
2028	134.69	0
2029	126.77	5,529
2030	118.84	5,183
2031	110.92	4,837
2032	103.00	4,492
2033	95.08	4,147
2034	87.15	3,801
2035	79.23	3,455
2036	71.31	3,110
2037	63.38	2,764
2038	55.46	2,419
2039	47.54	2,073
2040	39.61	1,727
2041	31.69	1,382
2042	23.77	1,037
2043	15.85	691
2044	7.92	345
2045	0	0
	Total	46,992.47
	Amortized (30 years)	1,566.42

Hours/Day Discharged	BESS Efficiency	Hours/Day Charged	Hours/Day Delta	Hours/Year Delta	MWs
4	82%	4.88	0.88	320.49	300

MWh/year	kWh/year
96,146	96,146,341