

Shinohara Industrial Center Project Air Quality, Greenhouse Gas, and Health Risk Impact Study City of Chula Vista, CA

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TABLE OF CONTENTS

1.0	Introduction	1
1.1	Purpose of Analysis and Study Objectives	1
1.2	Project Summary	1
1.2.1	Site Location	1
1.2.2	Project Description	1
1.2.3	Sensitive Receptors	2
1.3	Executive Summary of Findings and Mitigation Measures	2
2.0	Regulatory Framework and Background	6
2.1	Air Quality Regulatory Setting	6
2.1.1	National and State	6
2.1.2	Local	8
2.1.3	City of Chula Vista	11
2.2	Greenhouse Gas Regulatory Setting	12
2.2.1	International	12
2.2.2	National	13
2.2.3	California	14
2.2.4	Local	22
2.3	Health Risk Regulatory Setting	23
3.0	Setting	25
3.1	Existing Physical Setting	25
3.1.1	Local Climate and Meteorology	25
3.1.2	Local Air Quality	26
3.1.3	Attainment Status	28
3.2	Greenhouse Gases	29
4.0	Modeling Parameters and Assumptions	32
4.1	Construction	32
4.2	Operations	32
5.0	Thresholds of Significance	34
5.1	Air Quality Thresholds of Significance	34
5.1.1	CEQA Guidelines for Air Quality	34
5.1.2	Regional Significance Thresholds	35
5.2	Greenhouse Gas Thresholds of Significance	35
5.2.1	CEQA Guidelines for Greenhouse Gas	35
5.3	Toxic Air Contaminants	38
6.0	Air Quality Emissions Impact	39
6.1	Construction Air Quality Emissions Impact	39
6.1.1	Temporary Construction Emissions	39

6.1.2	Construction-Related Toxic Air Contaminant Impact	39
6.2	Operational Air Quality Emissions Impact	40
6.2.1	Operational Emissions	40
6.3	CO Hot Spot Emissions	41
6.4	Odors	42
6.5	Cumulative Regional Air Quality Impacts	42
6.6	Health and Equity Impacts	43
6.7	Air Quality Compliance	44
7.0	Greenhouse Gas Impact Analysis.....	45
7.1	Construction Greenhouse Gas Emissions Impact	45
7.2	Operational Greenhouse Gas Emissions Impact	45
7.3	Greenhouse Gas Plan Consistency	46
8.0	Health Risk Assessment	56
8.1	Diesel Emissions Health Risk Assessment	56
9.0	References.....	72

LIST OF APPENDICES

Appendix A:
CalEEMod Output

Appendix B:
Cumulative Project List

Appendix C:
AERMOD Model Printouts

LIST OF EXHIBITS

Exhibit A4
Location Map 4

Exhibit B5
Site Plan 5

Exhibit C62
AERMOD Model Source and Receptor Placement 62

Exhibit D70
Wind Rose - Brown Field Municipal Airport 70

Exhibit E71
Unmitigated Annual DPM Emissions - Infants (2023-2024) 71

LIST OF TABLES

Table 1: Land Use Summary 1

Table 2: Ambient Air Quality Standards 7

Table 3: Meteorological Summary 26

Table 4: Local Area Air Quality Levels..... 27

Table 5: San Diego County Air Basin Attainment Status 29

Table 6: Description of Greenhouse Gases 31

Table 7: City of Chula Vista Air Quality Significance Thresholds 35

Table 8: Estimated Maximum Daily Construction Criteria Air Pollutant Emissions 39

Table 9: Estimated Maximum Daily Operational Criteria Air Pollutant Emissions..... 40

Table 10: Estimated Annual Construction Greenhouse Gas Emissions..... 45

Table 11: Opening Year Project-Related Greenhouse Gas Emissions 45

Table 12: Project Consistency with the City of Chula Vista Climate Action Plan 47

Table 13: Project Consistency with San Diego Forward: The Regional Plan 50
Table 14: Project Consistency with CARB Scoping Plan Policies and Measures..... 53
Table 15: DPM Emissions Factors..... 58
Table 16: Summary of Emission Configurations..... 60
Table 17: General Modeling Assumptions – AERMOD Model 61
Table 18: Carcinogenic Risks and Non-Carcinogenic 3rd Trimester Exposure Scenario (0.25-years) - 2022 64
Table 19: Carcinogenic Risks and Non-Carcinogenic Infant Exposure Scenario (2-year) – 2023-2024 65
Table 20: Carcinogenic Risks and Non-Carcinogenic Child Exposure Scenario – 2025-2038 66
Table 21: Carcinogenic Risks and Non-Carcinogenic Adult Exposure Scenario (16-30 years) – 2039-2052 67
Table 22: Cumulative Carcinogenic Risk 30.25-Year Exposure Scenario..... 68

GLOSSARY OF TERMS

CAAQS	California Ambient Air Quality Standards
CARB	California Air Resources Board
CEQA	California Environmental Quality Act
CFCs	Chlorofluorocarbons
CH ₄	Methane
CNG	Compressed natural gas
CO	Carbon monoxide
CO ₂	Carbon dioxide
CO ₂ e	Carbon dioxide equivalent
DPM	Diesel particulate matter
GHG	Greenhouse gas
HFCs	Hydrofluorocarbons
MTCO ₂ e	Metric tons of carbon dioxide equivalent
MMTCO ₂ e	Million metric tons of carbon dioxide equivalent
NAAQS	National Ambient Air Quality Standards
NO _x	Nitrogen Oxides
NO ₂	Nitrogen dioxide
N ₂ O	Nitrous oxide
O ₃	Ozone
PFCs	Perfluorocarbons
PM	Particle matter
PM10	Particles that are less than 10 micrometers in diameter
PM2.5	Particles that are less than 2.5 micrometers in diameter
PMI	Point of maximum impact
PPM	Parts per million
PPB	Parts per billion
RAQS	San Diego Regional Air Quality Strategy
RTIP	Regional Transportation Improvement Plan
RTP	Regional Transportation Plan
SDAB	San Diego Air Basin
SDAPCD	San Diego Air Pollution Control District
SF ₆	Sulfur hexafluoride
SIP	State Implementation Plan
SO _x	Sulfur Oxides
SRA	Source/Receptor Area
TAC	Toxic air contaminants
VOC	Volatile organic compounds
WRCC	Western Regional Climate Center

1.0 Introduction

1.1 Purpose of Analysis and Study Objectives

This air quality, greenhouse gas (GHG), and health risk analysis was prepared to evaluate whether the estimated criteria pollutants and GHG emissions generated from the project would cause a significant impact to the air resources in the project area. This assessment was conducted within the context of the California Environmental Quality Act (CEQA, California Public Resources Code Sections 21000, et seq.). The assessment is consistent with the methodology and emission factors endorsed by San Diego Air Pollution control district (SDAPCD), California Air Resource Board (CARB), and the United States Environmental Protection Agency (US EPA).

1.2 Project Summary

1.2.1 Site Location

The project site is located at 517 Shinohara Lane near Main Street between Oleander Avenue and Brandywine Avenue in the City of Chula Vista, San Diego County, California as shown in Exhibit A. The site is currently designated Limited Industrial (IL) according to the City of Chula Vista General Plan Land Use Diagram and the proposed use is industrial. Land uses surrounding the site include Residential to the north and west, and Industrial to the south and east.

1.2.2 Project Description

The approximately 9.72-acre project site is proposed to be developed with a 168,926 square foot warehouse and distribution center with 4,506 square feet of office space and 4,724 square feet of mezzanine space. Exhibit B demonstrates the site plan for the project.

Construction activities within the Project area will consist of on-site grading, building, paving, and architectural coating. Table 1 summarizes the land use description for the Project Site.

Table 1: Land Use Summary

Land Use	Unit Amount	Size Metric
Unrefrigerated Warehouse - No Rail ²	178.156	TSF
Other Non-Asphalt Surfaces	2.4	AC
Parking Lot ³	221	Space

¹ TSF=thousand square foot
² The site is assumed to be developed with a site specific warehouse/distribution building.
³ It was assumed that the paving of the parking lot, loading areas, etc. would cover approximately 2.83 acres of the site.

1.2.3 Sensitive Receptors

Sensitive receptors are considered land uses or other types of population groups that are more sensitive to air pollution than others due to their exposure. As identified by the California Air Resources Board (CARB), sensitive population groups include children, the elderly, the acutely and chronically ill, and those with cardio-respiratory diseases. For CEQA purposes, a sensitive receptor would be a location where a sensitive individual could remain for 24-hours or longer, such as residences, hospitals, and schools (etc).

The closest existing sensitive receptors (to the site area) are the single-family residential land uses located 30 feet to the west and the multi-family residential land uses located 40 feet to the north of the project site.

1.3 Executive Summary of Findings and Mitigation Measures

The following is a summary of the analysis results:

Construction-Source Emissions

Project construction-source emissions would not exceed the City of Chula Vista's significance thresholds for criteria pollutants.

Project construction-source emissions would not conflict with the San Diego Regional Air Quality Strategy (RAQS). As discussed herein, the project will comply with all applicable SDAPCD construction-source emission reduction rules and guidelines. Project construction source emissions would not cause or substantively contribute to violation of the California Ambient Air Quality Standards (CAAQS) or National Ambient Air Quality Standards (NAAQS).

Established requirements addressing construction equipment operations, and construction material use, storage, and disposal requirements act to minimize odor impacts that may result from construction activities. Moreover, construction-source odor emissions would be temporary, short-term, and intermittent in nature and would not result in persistent impacts that would affect substantial numbers of people. Potential construction-source odor impacts are therefore considered less-than-significant.

Operational-Source Emissions

Operational-sourced emissions would not exceed the City of Chula Vista's significance thresholds; therefore, impacts during project operation would be less than significant. Project-related traffic will not cause or result in CO concentrations exceeding applicable state and/or federal standards (CO "hotspots"). Project operational-source emissions would therefore not adversely affect sensitive receptors within the vicinity of the project.

The project operational-source emissions will not exceed the City of Chula Vista's significance thresholds and will not conflict with the RAQS. The project does not propose any such uses or activities that would result in potentially significant operational-source odor impacts. Potential operational-source odor impacts are therefore considered less-than significant. The project

greenhouse gas emissions would be less than the 10,000 MT CO₂e per year screening level threshold and would not conflict with the goals of SB-32, the CARB Scoping Plan, the City of Chula Vista Climate Action Plan; or the SANDAG Regional Plan; therefore, the project would not generate significant GHG emissions and would not conflict with an applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases. Impacts are considered to be less than significant.

The analysis shows that none of the nearby sensitive receptors would be exposed to elevated cancer risk from project operation-related diesel emissions in excess of 10 in a million, impacts are less than significant with mitigation. The operational related health risk impacts for non-cancer related impacts are less than 1.0; therefore, they are also considered to be less significant.

Mitigation Measures

A. Construction Measures

Adherence to SDAPCD Rules 52, 54, and 55 is required.

No construction mitigation required.

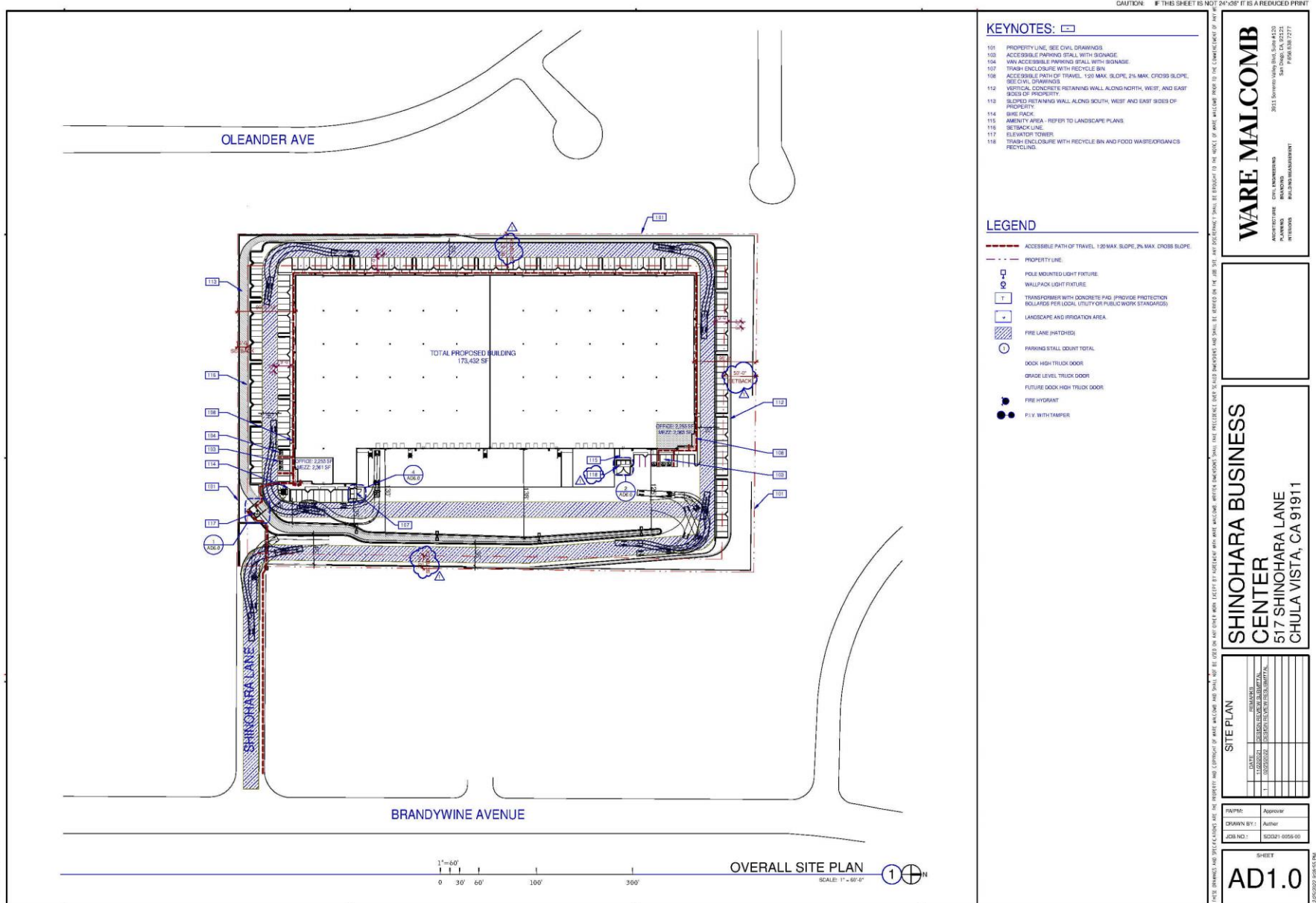
B. Operational Measures to Reduce Emissions

No operational mitigation required.

Exhibit A Location Map



Exhibit B Site Plan



2.0 Regulatory Framework and Background

2.1 Air Quality Regulatory Setting

Air pollutants are regulated at the national, state, and air basin level; each agency has a different level of regulatory responsibility. The United States Environmental Protection Agency (EPA) regulates at the national level. The California Air Resources Board (ARB) regulates at the state level. The San Diego Air Pollution Control District (SDAPCD) regulates at the air basin level.

2.1.1 National and State

The EPA is responsible for global, international, and interstate air pollution issues and policies. The EPA sets national vehicle and stationary source emission standards, oversees approval of all State Implementation Plans, provides research and guidance for air pollution programs, and sets National Air Quality Standards, also known as federal standards. There are six common air pollutants, called criteria pollutants, which were identified from the provisions of the Clean Air Act of 1970.

- Ozone
- Nitrogen Dioxide
- Lead
- Particulate Matter (PM10 and PM2.5)
- Carbon Monoxide
- Particulate Matter
- Sulfur Dioxide

The federal standards were set to protect public health, including that of sensitive individuals; thus, the standards continue to change as more medical research is available regarding the health effects of the criteria pollutants. Primary federal standards are the levels of air quality necessary, with an adequate margin of safety, to protect the public health.

A State Implementation Plan is a document prepared by each state describing existing air quality conditions and measures that will be followed to attain and maintain federal standards. The State Implementation Plan for the State of California is administered by the ARB, which has overall responsibility for statewide air quality maintenance and air pollution prevention. California's State Implementation Plan incorporates individual federal attainment plans for regional air districts—air district prepares their federal attainment plan, which sent to ARB to be approved and incorporated into the California State Implementation Plan. Federal attainment plans include the technical foundation for understanding air quality (e.g., emission inventories and air quality monitoring), control measures and strategies, and enforcement mechanisms. See <http://www.arb.ca.gov/research/aqs/aqs.htm> for additional information on criteria pollutants and air quality standards.

The federal and state ambient air quality standards are summarized in Table 2 and can also be found at <http://www.arb.ca.gov/research/aqs/aqs2.pdf>.

Table 2: Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards ¹		National Standards ²		
		Concentrations ³	Method ⁴	Primary ^{3,5}	Secondary ^{3,6}	Method ⁷
Ozone (O3)	1-Hour	0.09 ppm	Ultraviolet Photometry	--	Same as Primary Standard	Ultraviolet Photometry
	8-Hour	0.070 ppm		0.070 ppm (147 µg/m ³)		
Respirable Particulate Matter (PM10) ⁸	24-Hour	50 µg/m ³	Gravimetric or Beta Attenuation	150 µ/m ³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m ³		--		
Fine Particulate Matter (PM2.5) ⁸	24-Hour	--	--	35 µg/m ³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	12 µg/m ³	Gravimetric or Beta Attenuation	12 µg/m ³	15 µg/m ³	
Carbon Monoxide (CO)	1-Hour	20 ppm (23 µg/m ³)	Non-Dispersive Infrared Photometry (NDIR)	35 ppm (40 µg/m ³)	--	Non-Dispersive Infrared Photometry (NDIR)
	8-Hour	9.0 ppm (10 µg/m ³)		9 ppm (10 µg/m ³)	--	
	8-Hour (Lake Tahoe)	6 ppm (7 µg/m ³)		--	--	
Nitrogen Dioxide (NO ₂) ⁹	1-Hour	0.18 ppm (339 µg/m ³)	Gas Phase Chemiluminescence	100 ppb (188 µg/m ³)	--	Gas Phase Chemiluminescence
	Annual Arithmetic Mean	0.030 ppm (357 µg/m ³)		0.053 ppm (100 µg/m ³)	Same as Primary Standard	
Sulfur Dioxide (SO ₂) ¹⁰	1-Hour	0.25 ppm (655 µg/m ³)	Ultraviolet Fluorescence	75 ppb (196 µg/m ³)	--	Ultraviolet Fluorescence; Spectrophotometry (Pararosaniline Method)
	3-Hour	--		--	0.5 ppm (1300 mg/m ³)	
	24-Hour	0.04 ppm (105 µg/m ³)		0.14 ppm (for certain areas) ¹⁰	--	
	Annual Arithmetic Mean	--		0.130ppm (for certain areas) ¹⁰	--	
Lead ^{11,12}	30 Day Average	1.5 µg/m ³	Atomic Absorption	--	Same as Primary Standard	High Volume Sampler and Atomic Absorption
	Calendar Qtr	--		1.5 µg/m ³ (for certain areas) ¹²		
	Rolling 3-Month Average	--		0.15 µg/m ³		
Visibility Reducing Particles ¹³	8-Hour	See footnote 13	Beta Attenuation and Transmittance through Filter Tape	No National Standards		
Sulfates	24-Hour	25 µg/m ³	Ion Chromatography			
Hydrogen Sulfide	1-Hour	0.03 ppm (42 µg/m ³)	Ultraviolet Fluorescence			
Vinyl Chloride ¹¹	24-Hour	0.01 ppm (26 µg/m ³)	Gas Chromatography			

Notes:

- California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1 and 24 hour), nitrogen dioxide, and particulate matter (PM10, PM2.5, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.
- National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM10, the 24 hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m³ is equal to or less than one. For PM2.5, the 24 hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Contact the U.S. EPA for further clarification and current national policies.
- Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.
- Any equivalent measurement method which can be shown to the satisfaction of the ARB to give equivalent results at or near the level of the air quality standard may be used.
- National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.
- National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.
- Reference method as described by the U.S. EPA. An “equivalent method” of measurement may be used but must have a “consistent relationship to the reference method” and must be approved by the U.S. EPA.

8. On December 14, 2012, the national annual PM2.5 primary standard was lowered from 15 $\mu\text{g}/\text{m}^3$ to 12.0 $\mu\text{g}/\text{m}^3$. The existing national 24-hour PM2.5 standards (primary and secondary) were retained at 35 $\mu\text{g}/\text{m}^3$, as was the annual secondary standard of 15 $\mu\text{g}/\text{m}^3$. The existing 24-hour PM10 standards (primary and secondary) of 150 $\mu\text{g}/\text{m}^3$ also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.
9. To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.
10. On June 2, 2010, a new 1-hour SO₂ standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO₂ national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.

Note that the 1-hour national standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the 1-hour national standard to the California standard the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.
11. The ARB 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.
12. The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard (1.5 $\mu\text{g}/\text{m}^3$ as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.
13. In 1989, the ARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

Several pollutants listed in Table 2 are not addressed in this analysis. Analysis of lead is not included in this report because the project is not anticipated to emit lead. Visibility-reducing particles are not explicitly addressed in this analysis because particulate matter is addressed. The project is not expected to generate or be exposed to vinyl chloride because proposed project uses do not utilize the chemical processes that create this pollutant and there are no such uses in the project vicinity. The proposed project is not expected to cause exposure to hydrogen sulfide because it would not generate hydrogen sulfide in any substantial quantity.

2.1.2 Local

San Diego Air Pollution Control District

In San Diego, the APCD is responsible for enforcing the rules and regulations protecting air quality. The San Diego Regional Air Quality Strategy (RAQS) was developed pursuant to California Clean Air Act (CCAA) requirements. The RAQS was initially adopted in 1991, and is updated on a triennial basis (most recently in 2009). The RAQS identifies feasible emission control measures to provide progress in San Diego County toward attaining the State ozone standard. The pollutants addressed in the RAQS are VOCs and NO_x, precursors to the photochemical formation of ozone (the primary component of smog).

The RAQS relies on information from CARB and San Diego Association of Governments (SANDAG), including mobile and area source emissions, as well as information regarding projected growth in the County, to project future emissions and then determine from that the strategies necessary for the

reduction of emissions through regulatory controls. CARB mobile source emission projections and SANDAG growth projections are based on population and vehicle trends and land use plans developed by the cities and the County as part of the development of the individual General Plans.

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

SDAPCD Rules and Regulations

The following rules and regulations apply to all sources in the jurisdiction of SDAPCD, and would apply to the project.

- **SDAPCD Regulation IV: Prohibitions; Rule 50: Visible Emissions.** Prohibits discharge into the atmosphere from any single source of emissions whatsoever any air contaminant for a period or periods aggregating more than 3 minutes in any period of 60 consecutive minutes that is darker in shade than that designated as Number 1 on the Ringelmann Chart, as published by the United States Bureau of Mines, or of such opacity as to obscure an observer's view to a degree greater than does smoke of a shade designated as Number 1 on the Ringelmann Chart.
- **SDAPCD Regulation IV: Prohibitions; Rule 51: Nuisance.** Prohibits the discharge, from any source, of such quantities of air contaminants or other materials that cause or have a tendency to cause injury, detriment, nuisance, annoyance to people and/or the public, or damage to any business or property.
- **SDAPCD Regulation IV: Prohibitions; Rule 55: Fugitive Dust.** Regulates fugitive dust emissions from any commercial construction or demolition activity capable of generating fugitive dust emissions, including active operations, open storage piles, and inactive disturbed areas, as well as track-out and carry-out onto paved roads beyond a project site.
- **SDAPCD Regulation IV: Prohibitions; Rule 67.0.1: Architectural Coatings.** Requires manufacturers, distributors, and end users of architectural and industrial maintenance coatings to reduce VOC emissions from the use of these coatings, primarily by placing limits on the VOC content of various coating categories.
- **SDAPCD Regulation XII: Toxic Air Contaminates; Rule 1200: Toxic Air Contaminants – New Source Review.** Requires new or modified stationary source units with the potential to emit TACs above rule threshold levels to either demonstrate that they will not increase the maximum incremental cancer risk above 1 in 1 million at every receptor location, or demonstrate that toxics best available control technology (T-BACT) will be employed if

maximum incremental cancer risk is equal to or less than 10 in 1 million, or demonstrate compliance with SDAPCD's protocol for those sources with an increase in maximum incremental cancer risk at any receptor location of greater than 10 in 1 million but less than 100 in 1 million.

- **SDAPCD Regulation XII: Toxic Air Contaminates; Rule 1210: Toxic Air Contaminant Public Health Risks – Public Notification and Risk Reduction.** Requires each stationary source that is required to prepare a public risk assessment to provide written public notice of risks at or above the following levels: maximum incremental cancer risks equal to or greater than 10 in 1 million, or cancer burden equal to or greater than 1.0, or total acute non-cancer health hazard index equal to or greater than 1.0, or total chronic non-cancer health hazard index equal to or greater than 1.0.

San Diego Association of Governments

SANDAG is the regional planning agency for San Diego County and serves as a forum for regional issues relating to transportation, the economy, community development, and the environment. With respect to air quality planning and other regional issues, SANDAG has prepared San Diego Forward: The Regional Plan (Regional Plan) for the San Diego region (SANDAG 2015). The Regional Plan, including its Sustainable Communities Strategy (SCS), is built on an integrated set of public policies, strategies, and investments to maintain, manage, and improve the transportation system so that it meets the diverse needs of the San Diego region through 2050. In regard to air quality, the Regional Plan sets the policy context in which SANDAG participates and responds to the air district's air quality plans and builds off the air district's air quality plan processes that are designed to meet health-based criteria pollutant standards in several ways (SANDAG 2015). On September 23, 2016, SANDAG's Board of Directors adopted the final 2016 Regional Transportation Improvement Program (RTIP). The 2016 RTIP is a multi-year program of projects for major transportation projects in the San Diego region. Transportation projects supported through federal, state, and TransNet (the San Diego transportation sales tax program) funds must be included in an approved RTIP. The 2016 RTIP covers five fiscal years and incrementally implements the Regional Plan (SANDAG 2016). The 2021 Regional Plan was adopted on December 10, 2021, and includes plans for multimodal roads, expanded transit, and improvements to the transportation system technology (SANDAG 2021).

On October 28, 2011, SANDAG adopted the 2050 Regional Transportation Plan (RTP) and Sustainable Communities Strategy (SCS), which meets the CARB emission reduction requirements. The 2050 RTP is a long-range visioning plan that builds upon and expands land use and transportation strategies established over several planning cycles to increase mobility options and achieve a more sustainable growth pattern. The plan outlines more than \$214 billion in transportation system investments through 2050. The RTP is supported by a combination of transportation and land use strategies that help the region achieve state greenhouse gas emission reduction goals and federal Clean Air Act requirements, preserve open space areas, improve public health and roadway safety, support our vital goods movement industry and utilize resources more efficiently.

2.1.3 City of Chula Vista

City of Chula Vista General Plan

The Environmental Element of the City of Chula Vista's General Plan contains the following air-quality related objectives and policies that are applicable to the proposed project:

Objective E6 Improve local air quality and reduce greenhouse gas emissions by minimizing the release of air pollutants and toxic air contaminants and limiting the exposure of people to such pollutants.

Policies

- E 6.1* Encourage compact development featuring a mix of uses that locate residential areas within reasonable walking distance to jobs, services, and transit.
- E 6.2* Promote and facilitate transit system improvements in order to increase transit use and reduce dependency on the automobile.
- E 6.3* Facilitate the use of alternative fuel and low- and zero-emission vehicles and equipment in the community.
- E 6.4* Do not site new or re-powered fossil-fueled baseload or peaking-type Electric Generating Facilities and other major toxic emitters within 1,000 feet of sensitive receptors, or site sensitive receptors within 1,000 feet of such facilities.
- E 6.6* Explore incentives to promote voluntary air pollutant reductions, including incentives for developers who go above and beyond applicable requirements and for facilities and operations that are not otherwise regulated.
- E 6.7* Encourage innovative energy conservation practices and air quality improvements in new development and redevelopment projects consistent with the City's Air Quality Improvement Plan Guidelines or its equivalent, pursuant to the City's Growth Management Program.
- E 6.8* Encourage climate resilient design techniques in new buildings and infrastructure to reduce future risks from climate change-related impacts such as wildfires, extreme heat, and flooding.
- E 6.9* Discourage the use of landscaping equipment powered by two-stroke gasoline engines within the City and promote less-polluting alternatives to their use.
- E 6.11* Develop strategies to minimize CO hot spots that address all modes of transportation.

- E 6.12* Promote clean fuel sources that help reduce the exposure of sensitive uses to pollutants.
- E 6.13* Encourage programs and infrastructure to increase the availability and usage of energy-efficient vehicles, such as hybrid electric vehicles, electric vehicles, or those that run on alternative fuels.
- E 6.15* Site industries: and other stationary emitters in a way that minimizes the potential impacts of poor air quality on homes, schools, hospitals, and other land uses where people congregate, and disadvantaged populations.
- E 6.16* Encourage the use of bicycles through support of bike share opportunities, community bike programs, and the provision of bicycle parking opportunities such as bike racks and bike lockers.

Final Environmental Impact Report for the City of Chula Vista General Plan Update

- MM 5.8-1* The City shall continue to implement the Energy Strategy and Action Plan, that addresses demand side management, energy efficient and renewable energy outreach programs for businesses and residents, energy acquisition, power generation, and distributed energy resources and legislative actions, and continue to implement the CO2 Reduction Plan to lessen the impacts on energy.
- MM 5.11-1* Mitigation of PM10 impacts requires active dust control during construction.
- MM 5.11-2* No residential use shall be permitted or constructed within 1,000 feet of the Otay Landfill while the landfill is open and operating, unless a project specific analysis is completed demonstrating to the satisfaction of the Environmental Review Coordinator that odor effects are below the odor thresholds for common compounds emitted by the landfill for less than two percent of the time

2.2 Greenhouse Gas Regulatory Setting

2.2.1 International

Many countries around the globe have made an effort to reduce GHGs since climate change is a global issue.

Intergovernmental Panel on Climate Change. In 1988, the United Nations and the World Meteorological Organization established the Intergovernmental Panel on Climate Change to assess the scientific, technical and socio-economic information relevant to understanding the scientific basis of risk of human-induced climate change, its potential impacts, and options for adaptation and mitigation.

United Nations. The United States participates in the United Nations Framework Convention on Climate Change (UNFCCC) (signed on March 21, 1994). Under the Convention, governments gather and

share information on greenhouse gas emissions, national policies, and best practices; launch national strategies for addressing greenhouse gas emissions and adapting to expected impacts, including the provision of financial and technological support to developing countries; and cooperate in preparing for adaptation to the impacts of climate change.

The 2014 UN Climate Change Conference in Lima Peru provided a unique opportunity to engage all countries to assess how developed countries are implementing actions to reduce emissions.

Kyoto Protocol. The Kyoto Protocol is a treaty made under the UNFCCC and was the first international agreement to regulate GHG emissions. It has been estimated that if the commitments outlined in the Kyoto Protocol are met, global GHG emissions could be reduced by an estimated 5 percent from 1990 levels during the first commitment period of 2008 – 2012 (UNFCCC 1997). On December 8, 2012, the Doha Amendment to the Kyoto Protocol was adopted. The amendment includes: New commitments for Annex I Parties to the Kyoto Protocol who agreed to take on commitments in a second commitment period from 2013 – 2020; a revised list of greenhouse gases (GHG) to be reported on by Parties in the second commitment period; and Amendments to several articles of the Kyoto Protocol which specifically referenced issues pertaining to the first commitment period and which needed to be updated for the second commitment period.

2.2.2 National

Greenhouse Gas Endangerment. On December 2, 2009, the EPA announced that GHGs threaten the public health and welfare of the American people. The EPA also states that GHG emissions from on-road vehicles contribute to that threat. The decision was based on *Massachusetts v. EPA* (Supreme Court Case 05-1120) which argued that GHGs are air pollutants covered by the Clean Air Act and that the EPA has authority to regulate those emissions.

Clean Vehicles. Congress first passed the Corporate Average Fuel Economy law in 1975 to increase the fuel economy of cars and light duty trucks. The law has become more stringent over time. On May 19, 2009, President Obama put in motion a new national policy to increase fuel economy for all new cars and trucks sold in the United States. On April 1, 2010, the EPA and the Department of Transportation's National Highway Safety Administration announced a joint final rule establishing a national program that would reduce greenhouse gas emissions and improve fuel economy for new cars and trucks sold in the United States.

The first phase of the national program would apply to passenger cars, light-duty trucks, and medium-duty passenger vehicles, covering model years 2012 through 2016. They require these vehicles to meet an estimated combined average emissions level of 250 grams of carbon dioxide per mile, equivalent to 35.5 miles per gallon if the automobile industry were to meet this carbon dioxide level solely through fuel economy improvements. Together, these standards would cut carbon dioxide emissions by an estimated 960 million metric tons and 1.8 billion barrels of oil over the lifetime of the vehicles sold under the program (model years 2012-2016). The second phase of the national program would involve proposing new fuel economy and greenhouse gas standards for model years 2017 – 2025 by September 1, 2011.

On October 25, 2010, the EPA and the U.S. Department of Transportation proposed the first national standards to reduce greenhouse gas emissions and improve fuel efficiency of heavy-duty trucks and buses. For combination tractors, the agencies are proposing engine and vehicle standards that begin in the 2014 model year and achieve up to a 20 percent reduction in carbon dioxide emissions and fuel consumption by the 2018 model year. For heavy-duty pickup trucks and vans, the agencies are proposing separate gasoline and diesel truck standards, which phase in starting in the 2014 model year and achieve up to a 10 percent reduction for gasoline vehicles and 15 percent reduction for diesel vehicles by 2018 model year (12 and 17 percent respectively if accounting for air conditioning leakage). Lastly, for vocational vehicles, the agencies are proposing engine and vehicle standards starting in the 2014 model year which would achieve up to a 10 percent reduction in fuel consumption and carbon dioxide emissions by 2018 model year.

Issued by NHTSA and EPA in March 2020 (published on April 30, 2020 and effective after June 29, 2020), the Safer Affordable Fuel-Efficient Vehicles Rule would maintain the CAFE and CO2 standards applicable in model year 2020 for model years 2021 through 2026. The estimated CAFE and CO2 standards for model year 2020 are 43.7 mpg and 204 grams of CO2 per mile for passenger cars and 31.3 mpg and 284 grams of CO2 per mile for light trucks, projecting an overall industry average of 37 mpg, as compared to 46.7 mpg under the standards issued in 2012. This Rule also excludes CO2-equivalent emission improvements associated with air conditioning refrigerants and leakage (and, optionally, offsets for nitrous oxide and methane emissions) after model year 2020.¹

Mandatory Reporting of Greenhouse Gases. On January 1, 2010, the EPA started requiring large emitters of heat-trapping emissions to begin collecting GHG data under a new reporting system. Under the rule, suppliers of fossil fuels or industrial greenhouse gases, manufacturers of vehicles and engines, and facilities that emit 25,000 metric tons or more per year of greenhouse gas emissions are required to submit annual reports to the EPA.

Climate Adaption Plan. The EPA Plan identifies priority actions the Agency will take to incorporate considerations of climate change into its programs, policies, rules and operations to ensure they are effective under future climatic conditions. The following link provides more information on the EPA Plan: <https://www.epa.gov/arc-x/planning-climate-change-adaptation>

2.2.3 California

California Code of Regulations (CCR) Title 24, Part 6. CCR Title 24, Part 6: California's Energy Efficiency Standards for Residential and Nonresidential Buildings (Title 24) were first established in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficiency

¹ National Highway Traffic Safety Administration (NHTSA) and U.S. Environmental Protection Agency (USEPA), 2018. Federal Register / Vol. 83, No. 165 / Friday, August 24, 2018 / Proposed Rules, The Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule for Model Years 2021–2026 Passenger Cars and Light Trucks 2018. Available at: <https://www.gpo.gov/fdsys/pkg/FR-2018-08-24/pdf/2018-16820.pdf>.

technologies and methods. Although it was not originally intended to reduce GHG emissions, electricity production by fossil fuels results in GHG emissions and energy efficient buildings require less electricity. Therefore, increased energy efficiency results in decreased GHG emissions.

The Energy Commission adopted 2008 Standards on April 23, 2008 and Building Standards Commission approved them for publication on September 11, 2008. These updates became effective on August 1, 2009. 2013 and 2016 standards have been approved and became effective July 1, 2014 and January 1, 2016, respectively. 2019 standards were published July 1, 2019 and became effective January 1, 2020.

California Code of Regulations (CCR) Title 24, Part 11. All buildings for which an application for a building permit is submitted on or after January 1, 2020 must follow the 2019 standards.. Energy efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel consumption and decreases greenhouse gas emissions. The following links provide more information on Title 24, Part 11:

<https://www.dgs.ca.gov/BSC/Codes>

https://www.energy.ca.gov/sites/default/files/2020-03/Title_24_2019_Building_Standards_FAQ_ada.pdf

California Green Building Standards. On January 12, 2010, the State Building Standards Commission unanimously adopted updates to the California Green Building Standards Code, which went into effect on January 1, 2011. The Housing and Community Development (HCD) updated CALGreen through the 2015 Triennial Code Adoption Cycle, during the 2016 to 2017 fiscal year. During the 2019-2020 fiscal year, the Department of Housing and Community Development (HCD) updated CALGreen through the 2019 Triennial Code Adoption Cycle.

The Code is a comprehensive and uniform regulatory code for all residential, commercial and school buildings. CCR Title 24, Part 11: California Green Building Standards (Title 24) became effective in 2001 in response to continued efforts to reduce GHG emissions associated with energy consumption. CCR Title 24, Part 11 now require that new buildings reduce water consumption, employ building commissioning to increase building system efficiencies, divert construction waste from landfills, and install low pollutant-emitting finish materials. One focus of CCR Title 24, Part 11 is water conservation measures, which reduce GHG emissions by reducing electrical consumption associated with pumping and treating water. CCR Title 24, Part 11 has approximately 52 nonresidential mandatory measures and an additional 130 provisions for optional use. Some key mandatory measures for commercial occupancies include specified parking for clean air vehicles, a 20 percent reduction of potable water use within buildings, a 50 percent construction waste diversion from landfills, use of building finish materials that emit low levels of volatile organic compounds, and commissioning for new, nonresidential buildings over 10,000 square feet.

The 2019 CalGreen Code includes the following changes and/or additional regulations:

Single-family homes built with the 2019 standards will use about 7 percent less energy due to energy efficiency measures versus those built under the 2016 standards. Once rooftop solar electricity generation is factored in, homes built under the 2019 standards will use about 53 percent less energy

than those under the 2016 standards. Nonresidential buildings will use about 30 percent less energy due mainly to lighting upgrades².

HCD modified the best management practices for stormwater pollution prevention adding Section 5.106.2 for projects that disturb one or more acres of land. This section requires projects that disturb one acre or more of land or less than one acre of land but are part of a larger common plan of development or sale must comply with the post-construction requirement detailed in the applicable National Pollutant Discharge Elimination System (NPDES) General Permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board. The NPDES permits require post-construction runoff (post-project hydrology) to match the preconstruction runoff pre-project hydrology) with installation of post-construction stormwater management measures.

HCD added sections 5.106.4.1.3 and 5.106.4.1.5 in regards to bicycle parking. Section 5.106.4.1.3 requires new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility. In addition, Section 5.106.4.1.5 states that acceptable bicycle parking facility for Sections 5.106.4.1.2 through 5.106.4.1.4 shall be convenient from the street and shall meeting one of the following: (1) covered, lockable enclosures with permanently anchored racks for bicycles; (2) lockable bicycle rooms with permanently anchored racks; or (3) lockable, permanently anchored bicycle lockers.

HCD amended section 5.106.5.3.5 allowing future charging spaces to qualify as designated parking for clean air vehicles.

HCD updated section 5.303.3.3 in regards to showerhead flow rates. This update reduced the flow rate to 1.8 GPM.

HCD amended section 5.304.1 for outdoor potable water use in landscape areas and repealed sections 5.304.2 and 5.304.3. The update requires nonresidential developments to comply with a local water efficient landscape ordinance or the current California Department of Water Resource's' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent. Some updates were also made in regards to the outdoor potable water use in landscape areas for public schools and community colleges.

HCD updated Section 5.504.5.3 in regards to the use of MERV filters in mechanically ventilated buildings. This update changed the filter use from MERV 8 to MERV 13.

² https://ww2.energy.ca.gov/title24/2019standards/documents/2018_Title_24_2019_Building_Standards_FAQ.pdf

The California Green Building Standards Code does not prevent a local jurisdiction from adopting a more stringent code as state law provides methods for local enhancements. The Code recognizes that many jurisdictions have developed existing construction and demolition ordinances, and defers to them as the ruling guidance provided they provide a minimum 50-percent diversion requirement. The code also provides exemptions for areas not served by construction and demolition recycling infrastructure. State building code provides the minimum standard that buildings need to meet in order to be certified for occupancy. Enforcement is generally through the local building official. The following link provides more on CalGreen Building Standards:

<http://www.bsc.ca.gov/Home/CALGreen.aspx>

Executive Order S-3-05. California Governor issued Executive Order S-3-05, GHG Emission, in June 2005, which established the following targets:

- By 2010, California shall reduce greenhouse gas emissions to 2000 levels;
- By 2020, California shall reduce greenhouse gas emissions to 1990 levels.
- By 2050, California shall reduce greenhouse gas emissions to 80 percent below 1990 levels.

The executive order directed the secretary of the California Environmental Protection Agency (CalEPA) to coordinate a multi-agency effort to reduce GHG emissions to the target levels. To comply with the Executive Order, the secretary of CalEPA created the California Climate Action Team (CAT), made up of members from various state agencies and commissions. The team released its first report in March 2006. The report proposed to achieve the targets by building on the voluntary actions of businesses, local governments, and communities and through State incentive and regulatory programs.

Executive Order S-01-07. Executive Order S-1-07 was issued in 2007 and proclaims that the transportation sector is the main source of GHG emissions in the State, since it generates more than 40 percent of the State's GHG emissions. It establishes a goal to reduce the carbon intensity of transportation fuels sold in the State by at least ten percent by 2020. This Order also directs CARB to determine whether this Low Carbon Fuel Standard (LCFS) could be adopted as a discrete early-action measure as part of the effort to meet the mandates in AB 32.

On April 23, 2009 CARB approved the proposed regulation to implement the low carbon fuel standard and began implementation on January 1, 2011. The low carbon fuel standard is anticipated to reduce GHG emissions by about 16 MMT per year by 2020. CARB approved some amendments to the LCFS in December 2011, which were implemented on January 1, 2013. In September 2015, the Board approved the re-adoption of the LCFS, which became effective on January 1, 2016, to address procedural deficiencies in the way the original regulation was adopted. In 2018, the Board approved amendments to the regulation, which included strengthening and smoothing the carbon intensity benchmarks through 2030 in-line with California's 2030 GHG emission reduction target enacted through SB 32, adding new crediting opportunities to promote zero emission vehicle adoption, alternative jet fuel, carbon capture and sequestration, and advanced technologies to achieve deep decarbonization in the transportation sector.

The LCFS is designed to encourage the use of cleaner low-carbon transportation fuels in California, encourage the production of those fuels, and therefore, reduce GHG emissions and decrease petroleum dependence in the transportation sector. Separate standards are established for gasoline and diesel fuels and the alternative fuels that can replace each. The standards are “back-loaded”, with more reductions required in the last five years, than the first five years. This schedule allows for the development of advanced fuels that are lower in carbon than today’s fuels and the market penetration of plug-in hybrid electric vehicles, battery electric vehicles, fuel cell vehicles, and flexible fuel vehicles. It is anticipated that compliance with the low carbon fuel standard will be based on a combination of both lower carbon fuels and more efficient vehicles.

Reformulated gasoline mixed with corn-derived ethanol at ten percent by volume and low sulfur diesel fuel represent the baseline fuels. Lower carbon fuels may be ethanol, biodiesel, renewable diesel, or blends of these fuels with gasoline or diesel as appropriate. Compressed natural gas and liquefied natural gas also may be low carbon fuels. Hydrogen and electricity, when used in fuel cells or electric vehicles are also considered as low carbon fuels for the low carbon fuel standard.

SB 97. Senate Bill 97 (SB 97) was adopted August 2007 and acknowledges that climate change is a prominent environmental issue that requires analysis under CEQA. SB 97 directed the Governor’s Office of Planning and Research (OPR), which is part of the State Resource Agency, to prepare, develop, and transmit to CARB guidelines for the feasible mitigation of GHG emissions or the effects of GHG emissions, as required by CEQA, by July 1, 2009. The Resources Agency was required to certify and adopt those guidelines by January 1, 2010.

Pursuant to the requirements of SB 97 as stated above, on December 30, 2009 the Natural Resources Agency adopted amendments to the state CEQA guidelines that address GHG emissions. The CEQA Guidelines Amendments changed 14 sections of the CEQA Guidelines and incorporate GHG language throughout the Guidelines. However, no GHG emissions thresholds of significance are provided and no specific mitigation measures are identified. The GHG emission reduction amendments went into effect on March 18, 2010 and are summarized below:

- Climate action plans and other greenhouse gas reduction plans can be used to determine whether a project has significant impacts, based upon its compliance with the plan.
- Local governments are encouraged to quantify the greenhouse gas emissions of proposed projects, noting that they have the freedom to select the models and methodologies that best meet their needs and circumstances. The section also recommends consideration of several qualitative factors that may be used in the determination of significance, such as the extent to which the given project complies with state, regional, or local GHG reduction plans and policies. OPR does not set or dictate specific thresholds of significance. Consistent with existing CEQA Guidelines, OPR encourages local governments to develop and publish their own thresholds of significance for GHG impacts assessment.
- When creating their own thresholds of significance, local governments may consider the thresholds of significance adopted or recommended by other public agencies, or recommended by experts.

- New amendments include guidelines for determining methods to mitigate the effects of greenhouse gas emissions in Appendix F of the CEQA Guidelines.
- OPR is clear to state that “to qualify as mitigation, specific measures from an existing plan must be identified and incorporated into the project; general compliance with a plan, by itself, is not mitigation.”
- OPR’s emphasizes the advantages of analyzing GHG impacts on an institutional, programmatic level. OPR therefore approves tiering of environmental analyses and highlights some benefits of such an approach.
- Environmental impact reports (EIRs) must specifically consider a project's energy use and energy efficiency potential.

AB 32. The California State Legislature enacted AB 32, the California Global Warming Solutions Act of 2006. AB 32 requires that greenhouse gases emitted in California be reduced to 1990 levels by the year 2020. “Greenhouse gases” as defined under AB 32 include carbon dioxide, methane, nitrous oxide, hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride. ARB is the state agency charged with monitoring and regulating sources of greenhouse gases. AB 32 states the following:

Global warming poses a serious threat to the economic well-being, public health, natural resources, and the environment of California. The potential adverse impacts of global warming include the exacerbation of air quality problems, a reduction in the quality and supply of water to the state from the Sierra snowpack, a rise in sea levels resulting in the displacement of thousands of coastal businesses and residences, damage to marine ecosystems and the natural environment, and an increase in the incidences of infectious diseases, asthma, and other human health-related problems.

The ARB Board approved the 1990 greenhouse gas emissions level of 427 million metric tons of carbon dioxide equivalent (MMTCO_{2e}) on December 6, 2007 (California Air Resources Board 2007). Therefore, emissions generated in California in 2020 are required to be equal to or less than 427 MMTCO_{2e}. Emissions in 2020 in a “business as usual” scenario are estimated to be 596 MMTCO_{2e}.

Under AB 32, the ARB published its Final Expanded List of Early Action Measures to Reduce Greenhouse Gas Emissions in California. Discrete early action measures are currently underway or are enforceable by January 1, 2010. The ARB has 44 early action measures that apply to the transportation, commercial, forestry, agriculture, cement, oil and gas, fire suppression, fuels, education, energy efficiency, electricity, and waste sectors. Of these early action measures, nine are considered discrete early action measures, as they are regulatory and enforceable by January 1, 2010. The ARB estimates that the 44 recommendations are expected to result in reductions of at least 42 MMTCO_{2e} by 2020, representing approximately 25 percent of the 2020 target.

The ARB’s Climate Change Scoping Plan (Scoping Plan) initially contained measures designed to reduce the State’s emissions to 1990 levels by the year 2020 with a further goal of 40 percent below 2020 levels by 2030 established in 2017 (California Air Resources Board 2017). The 2020 goal was achieved in 2016. The Scoping Plan identifies recommended measures for multiple greenhouse gas emission sectors and the associated emission reductions needed to achieve the year 2020 emissions target—each sector has a different emission reduction target. Most of the measures target the transportation

and electricity sectors. As stated in the Scoping Plan, the key elements of the strategy for achieving the 2030 greenhouse gas target include:

- Expanding and strengthening existing energy efficiency programs as well as building and appliance standards;
- Achieving a statewide renewables energy mix of 33 percent;
- Developing a California cap-and-trade program that links with other Western Climate Initiative partner programs to create a regional market system;
- Establishing targets for transportation-related greenhouse gas emissions for regions throughout California and pursuing policies and incentives to achieve those targets;
- Adopting and implementing measures pursuant to existing State laws and policies, including California’s clean car standards, goods movement measures, and the Low Carbon Fuel Standard; and
- Creating targeted fees, including a public goods charge on water use, fees on high global warming potential gases, and a fee to fund the administrative costs of the State’s long-term commitment to AB 32 implementation.

In addition, the Scoping Plan differentiates between “capped” and “uncapped” strategies. “Capped” strategies are subject to the proposed cap-and-trade program. The Scoping Plan states that the inclusion of these emissions within the cap-and-trade program will help ensure that the year 2020 emission targets are met despite some degree of uncertainty in the emission reduction estimates for any individual measure. Implementation of the capped strategies is calculated to achieve a sufficient amount of reductions by 2020 to achieve the emission target contained in AB 32. “Uncapped” strategies that will not be subject to the cap-and-trade emissions caps and requirements are provided as a margin of safety by accounting for additional greenhouse gas emission reductions.⁴

SB 375. Senate Bill 375 (SB 375) was adopted September 2008 and aligns regional transportation planning efforts, regional GHG emission reduction targets, and land use and housing allocation. SB 375 requires Metropolitan Planning Organizations (MPO) to adopt a sustainable communities strategy (SCS) or alternate planning strategy (APS) that will prescribe land use allocation in that MPOs Regional Transportation Plan (RTP). CARB, in consultation with each MPO, will provide each affected region with reduction targets for GHGs emitted by passenger cars and light trucks in the region for the years 2020 and 2035. These reduction targets will be updated every eight years but can be updated every four years if advancements in emissions technologies affect the reduction strategies to achieve the targets. CARB is also charged with reviewing each MPO’s sustainable communities strategy or alternate planning strategy for consistency with its assigned targets.

The proposed project is located within the San Diego Association of Government (SANDAG), which has authority to develop the SCS or APS. For the SANDAG region, the targets set by CARB are at 15 percent below 2005 per capita GHG emissions levels by 2020 and 19 percent below 2005 per capita GHG emissions levels by 2035. On October 28, 2011, SANDAG adopted the 2050 Regional Transportation

Plan (RPT) and Sustainable Communities Strategy (SCS), which meets the CARB emission reduction requirements.

The 2050 RTP is a long-range visioning plan that builds upon and expands land use and transportation strategies established over several planning cycles to increase mobility options and achieve a more sustainable growth pattern. The plan outlines more than \$214 billion in transportation system investments through 2050. The RTP is supported by a combination of transportation and land use strategies that help the region achieve state greenhouse gas emission reduction goals and federal Clean Air Act requirements, preserve open space areas, improve public health and roadway safety, support our vital goods movement industry and utilize resources more efficiently.

City and County land use policies, including General Plans, are not required to be consistent with the RTP and associated SCS or APS. However, new provisions of CEQA would incentivize, through streamlining and other provisions, qualified projects that are consistent with an approved SCS or APS and categorized as “transit priority projects.”

Assembly Bill 939, Assembly Bill 341, and Senate Bill 1374. Assembly Bill 939 (AB 939) requires that each jurisdiction in California to divert at least 50 percent of its waste away from landfills, whether through waste reduction, recycling or other means. AB 341 requires at least 75 percent of generated waste be source reduced, recycled, or composted by the year 2020. Senate Bill 1374 (SB 1374) requires the California Integrated Waste Management Board to adopt a model ordinance by March 1, 2004 suitable for adoption by any local agency to require 50 to 75 percent diversion of construction and demolition of waste materials from landfills.

Executive Order S-13-08. Executive Order S-13-08 indicates that “climate change in California during the next century is expected to shift precipitation patterns, accelerate sea level rise and increase temperatures, thereby posing a serious threat to California’s economy, to the health and welfare of its population and to its natural resources.” Pursuant to the requirements in the order, the 2009 California Climate Adaptation Strategy (California Natural Resource Agency 2009) was adopted, which is the “... first statewide, multi-sector, region-specific, and information-based climate change in California, identifying and exploring strategies to adapt to climate change, and specifying a direction for future research.

Executive Order B-30-15. Executive Order B-30-15, establishing a new interim statewide greenhouse gas emission reduction target to reduce greenhouse gas emissions to 40 percent below 1990 levels by 2030, was signed by Governor Brown in April 2015.

Executive Order B-29-15. Executive Order B-29-15, mandates a statewide 25% reduction in potable water usage and was signed into law on April 1, 2015.

Executive Order B-37-16. Executive Order B-37-16, continuing the State’s adopted water reduction, was signed into law on May 9, 2016. The water reduction builds off the mandatory 25% reduction called for in EO B-29-15.

Executive Order N-79-20. Executive Order N-79-20 was signed into law on September 23, 2020 and mandates 100 percent of in-state sales of new passenger cars and trucks be zero-emission by 2035; 100 percent of medium- and heavy-duty vehicles in the state be zero-emission vehicles by 2045 for all operations where feasible and by 2035 for drayage trucks; and to transition to 100 percent zero-emission off-road vehicles and equipment by 2035 where feasible.

Renewables Portfolio Standard (RPS) Program. California's RPS program was established in 2002 by Senate Bill (SB) 1078 with the initial requirement that 20% of electricity retail sales must be served by renewable resources by 2017. The program was accelerated in 2015 with SB 350 which mandated a 50% RPS by 2030. SB 350 includes interim annual RPS targets with three-year compliance periods and requires 65% of RPS procurement to be derived from long-term contracts of 10 or more years. In 2018, SB 100 was signed into law, which again increases the RPS to 60% by 2030 and requires all the state's electricity to come from carbon-free resources by 2045 (CPUC 2021).

San Diego Gas & Electric procured 42 percent of its power from renewable resources, which is above the State's statutory and Commission's RPS program requirements (SDG&E 2021).

2.2.4 Local

City of Chula Vista

City of Chula Vista Climate Action Plan

In 2000, the City of Chula Vista became the first municipality in San Diego County to adopt a Climate Action Plan (CAP). The plan, CO₂ Reduction Plan, inventoried existing CO₂ emissions, projected emissions growth to 2010, and evaluated a wide range of CO₂ reduction measures. Measures included in the original Climate Action Plan focus on Transportation Control Measures; land use patterns; clean transportation fuels; and residential, commercial, and industrial building efficiencies. In 2005, the City re-inventoried GHG emissions inventory to evaluate the City's progress in reaching its emissions goals. Subsequently, the City developed the Climate Mitigation Plans (2008) and Climate Adaptation Plans (2011).

In September 2017, the City released a new CAP. Whereas previous climate planning documents established a target of 15 percent below 2005 levels by 2020 consistent with the Original Scoping Plan, the updated CAP reflects new guidance from the 2017 Scoping Plan which recommends that local governments pursue reduction goals of 6 MT CO₂E per capita in 2030 and 2 MT CO₂E per capita in 2050. As the City began working on climate action planning earlier than other jurisdictions, previous efforts have already reduced communitywide emissions to less than 6 MT CO₂E per capita. To support the longer-term 2050 goal, the new CAP includes measures that promote energy and water-efficient buildings, smart growth and clean transit, zero waste policies, and increased local energy generation and water resources. These additional reduction measures are anticipated to result in an additional reduction of 194,950 MT CO₂E (or approximately 0.4 MT of per capita reductions).

City of Chula Vista General Plan

The City's General Plan includes various policies related to reducing greenhouse gas emissions. The applicable policies to the project are listed below.

Land Use and Transportation Element

- LUT -23.1* Encourage the use of bicycles and walking as alternatives to driving.
- LUT -23.8* Provide and maintain a safe and efficient system of sidewalks, trails, and pedestrian crossings.
- LUT -23.14* Require new development projects to provide internal bikeway systems with connections to the citywide bicycle networks.

Environmental Element

- E -6.5* Ensure that plans developed to meet the City's energy demand use the least polluting strategies, wherever practical. Conservation, clean renewables, and clean distributed generation should be considered as part of the City's energy plan, along with larger natural gas-fired plants.
- E-6.7* Encourage innovative energy conservation practices and air quality improvements in new development and redevelopment projects consistent with the City's Air Quality Improvement Plan Guidelines or its equivalent, pursuant to the City's Growth Management Program.
- E-6.8* Support the use of alternative fuel transit, City fleet and private vehicles in Chula Vista.
- E -7.1* Promote development of regulations and building design standards that maximize energy efficiency through appropriate site and building design and through the use of energy-efficient materials, equipment, and appliances.
- E-7.6* Encourage the construction and operation of green buildings, considering such programs as the Leadership in Energy and Environmental Design (LEED) Green Building Rating System.
- E-7.8* Ensure that residential and non-residential construction complies with all applicable City energy efficiency measures and other green building measures that are in effect at the time of discretionary permit review and approval or building permit issuance, whichever is applicable.
- E-78.1* Promote efforts to reduce waste, minimize the need for additional landfills, and provide economically and environmentally sound resource recovery, management, and disposal facilities.

2.3 Health Risk Regulatory Setting

Health Risk Assessments for Proposed Land Use Projects CAPCOA Guidance Document. This guidance was adopted July 2009 to ensure consistency in assessing the health risk impacts from and to proposed land use projects. This CAPCOA guidance document focuses on the acute, chronic, and cancer impacts of sources affected by CEQA. It also outlines the recommended procedures to identify when a project should undergo further risk evaluation, how to conduct the health risk assessment (HRA), how to engage the public, what to do with the results from the HRA, and what mitigation measures may be appropriate for various land use projects. With respect to health risks associated with locating sensitive land uses in proximity to freeways and other high traffic roadways, HRA modeling may not thoroughly characterize all the health risk associated with nearby exposure to traffic generated pollutants.

California Code of Regulations (CCR) Title 13 Section 2485. The Airborne Toxic Control Measure to Limit Diesel-Fueled Commercial Motor Vehicle Idling applies to diesel-fueled commercial motor vehicles that operate in the State of California with gross vehicle weight ratings of greater than 10,000 pounds that are or must be licensed for operation on highways. It limits applicable vehicles from idling more than five consecutive minutes at any location.

3.0 Setting

3.1 Existing Physical Setting

The project site is located in the City of Chula Vista, which is in the San Diego Air Basin (SDAB). The boundaries of the SDAB are contiguous with the political boundaries of San Diego County. The County of San Diego is bounded on the north by Orange and Riverside Counties, on the east by Imperial County, on the west by the Pacific Ocean, and on the south by the Mexican State of Baja California.

3.1.1 Local Climate and Meteorology

The San Diego Air Basin climate is largely dominated by the semi-permanent high-pressure system over the Pacific Ocean, which creates a pattern of late-night and early-morning low clouds, hazy afternoon sunshine, daytime onshore breezes, and little temperature variation year round. The San Diego area is classified as having a Mediterranean climate, with warm, dry summers and mild, wet winters. Temperature and precipitation can vary widely within the SDAB, where average annual precipitation ranges from approximately 10 inches in the coastal and inland areas to over 30 inches in the mountains (County of San Diego, 2007). In general, more mild annual temperatures are experienced in the maritime and coastal areas, whereas the interior and desert areas experience warmer summers and cooler winters. The project site is located approximately 2.8 miles inland from the coast.

The high-pressure system drives the prevailing winds in the SDAB. The winds tend to blow onshore in the daytime and offshore at night. In the summer, an inversion layer is created over the coastal areas and increases the O₃ levels. During winter, San Diego often experiences a shallow inversion layer which tends to increase carbon monoxide and PM_{2.5} concentration levels due to the increased use of residential wood burning. The SDAB is often impacted by Santa Ana winds during the fall months. These winds blow the air basin's pollutants out to sea; however, a weak Santa Ana can transport air pollution from the South Coast Air Basin and greatly increase the San Diego O₃ concentrations. (SDAPCD 2017)

The temperature and precipitation levels for the City of Chula Vista are in Table 3. Table 3 shows that August and September are typically the warmest months and December is typically the coolest month. Rainfall in the project area varies considerably in both time and space. Almost all the annual rainfall comes from the fringes of mid-latitude storms from late November to early April, with summers being almost completely dry.

<Table 3, next page>

Table 3: Meteorological Summary

Month	Temperature (°F)		Average Precipitation (inches)
	Average High	Average Low	
January	68.0	45.7	1.87
February	67.8	47.6	2.31
March	68.2	50.2	1.70
April	69.5	53.0	0.68
May	70.1	57.3	0.14
June	72.0	60.7	0.06
July	75.7	64.1	0.03
August	77.7	65.3	0.02
September	78.0	63.0	0.13
October	75.6	57.8	0.50
November	69.3	48.7	0.97
December	67.9	45.6	1.55
Annual Average	71.9	55.1	10.0
Notes: ¹ Source: https://wrcc.dri.edu/cgi-bin/cliMAIN.pl?ca1758			

3.1.2 Local Air Quality

The San Diego APCD operates and maintains ten monitoring stations located throughout the region. The purpose of these stations is to measure concentrations of the criteria pollutants and determine whether the ambient air quality meets the NAAQS and the CAAQS. The nearest air monitoring station to the project site is the Chula Vista Monitoring Station (Chula Vista Station). The Chula Vista Station is located approximately 2.74 miles northwest of the project site at 80 E J Street. Table 4 presents the monitored pollutant levels within the vicinity. However, it should be noted that due to the air monitoring station distance from the project site, recorded air pollution levels at the air monitoring station reflect with varying degrees of accuracy, local air quality conditions at the project site.

<Table 4, next page>

Table 4: Local Area Air Quality Levels

Pollutant (Standard) ²	Year		
	2018	2019	2020
Ozone:			
Maximum 1-Hour Concentration (ppm)	0.076	0.090	0.106
Days > CAAQS (0.09 ppm)	0	0	1
Maximum 8-Hour Concentration (ppm)	0.065	0.077	0.086
Days > NAAQS (0.07 ppm)	0	2	4
Days > CAAQS (0.070 ppm)	0	2	4
Carbon Monoxide:			
Maximum 1-Hour Concentration (ppm)	*	*	*
Days > NAAQS (20 ppm)	*	*	*
Maximum 8-Hour Concentration (ppm)			
Days > NAAQS (9 ppm)	0.052	0.050	0.045
Nitrogen Dioxide:	0	0	0
Maximum 1-Hour Concentration (ppm)			
Days > NAAQS (0.25 ppm)	*	*	*
Sulfur Dioxide:	*	*	*
Maximum 1-Hour Concentration (ppm)			
Days > CAAQS (0.25 ppm)	45.0	69.4	*
Inhalable Particulates (PM10):	0	0	0
Maximum 24-Hour Concentration (ug/m ³)	0	1	0
Days > NAAQS (150 ug/m ³)	20.7	17.2	*
Days > CAAQS (50 ug/m ³)	No	No	No
Annual Average (ug/m ³)	No	No	No
Annual > NAAQS (50 ug/m ³)			
Annual > CAAQS (20 ug/m ³)	41.9	18.6	46.7
Ultra-Fine Particulates (PM2.5):	1	0	2
Maximum 24-Hour Concentration (ug/m ³)	10	*	*
Days > NAAQS (35 ug/m ³)	No	*	*
Annual Average (ug/m ³)	No	*	*
Annual > NAAQS (15 ug/m ³)	2018	2019	2020
Annual > CAAQS (12 ug/m ³)			
¹ Source: obtained from https://www.arb.ca.gov/adam/topfour/topfour1.php ² CAAQS = California Ambient Air Quality Standard; NAAQS = National Ambient Air Quality Standard; ppm = parts per million * No data and/or insufficient data available.			

The monitoring data presented in Table 4 shows that ozone and particulate matter (PM10 and PM2.5) are the air pollutants of primary concern in the project area, which are detailed below.

Ozone

During the 2018 to 2020 monitoring period, the State 1-hour concentration standard for ozone was exceeded 1 day in 2020 at the Chula Vista Station. The State 8-hour ozone standard has been exceeded for two days in 2019 and 4 days in 2020 over the past three years at the Chula Vista Station. The Federal 8-hour ozone standard has been exceeded for two days in 2019 and 4 days in 2020 over the past three years at the Chula Vista Station.

Carbon Monoxide

CO is another important pollutant that is due mainly to motor vehicles. The Chula Vista Station did not record an exceedance of the state or federal 1-hour or 8-hour CO standards for the last three years.

Nitrogen Dioxide

The Chula Vista Station did not record an exceedance of the State or Federal NO₂ standards for the last three years.

Sulfur Dioxide

The Chula Vista Station did not record an exceedance of the State SO₂ standards for the last three years.

Particulate Matter

During the 2018 to 2020 monitoring period, the State 24-hour concentration standard for PM₁₀ were exceeded for one day in 2019 at the Chula Vista Station. Over the same time period the Federal 24-hour and annual standards for PM₁₀ have not been exceeded at the Chula Vista Station.

During the 2018 to 2020 monitoring period, the Federal 24-hour standard for PM_{2.5} was exceeded for one day in 2018 and two days in 2020 at the Chula Vista Station

According to the EPA, some people are much more sensitive than others to breathing fine particles (PM₁₀ and PM_{2.5}). People with influenza, chronic respiratory and cardiovascular diseases, and the elderly may suffer worsening illness and premature death due to breathing these fine particles. People with bronchitis can expect aggravated symptoms from breathing in fine particles. Children may experience decline in lung function due to breathing in PM₁₀ and PM_{2.5}. Other groups considered sensitive are smokers and people who cannot breathe well through their noses. Exercising athletes are also considered sensitive, because many breathe through their mouths during exercise.

3.1.3 Attainment Status

The EPA and the ARB designate air basins where ambient air quality standards are exceeded as “nonattainment” areas. If standards are met, the area is designated as an “attainment” area. If there is inadequate or inconclusive data to make a definitive attainment designation, they are considered “unclassified.” National nonattainment areas are further designated as marginal, moderate, serious, severe, or extreme as a function of deviation from standards. Each standard has a different definition, or ‘form’ of what constitutes attainment, based on specific air quality statistics. For example, the Federal 8-hour CO standard is not to be exceeded more than once per year; therefore, an area is in attainment of the CO standard if no more than one 8-hour ambient air monitoring values exceeds the threshold per year. In contrast, the federal annual PM_{2.5} standard is met if the three-year average of the annual average PM_{2.5} concentration is less than or equal to the standard.

The criteria pollutants of primary concern that are considered in this analysis are O₃, NO₂, CO, SO₂, PM₁₀, and PM_{2.5}. Although there are no ambient standards for VOCs or NO_x, they are important as precursors to O₃. The portion of the SDAB where the project site is located is designated by the EPA as

a nonattainment area for the 8-hour NAAQS for O₃. The SDAB is designated in attainment for all other criteria pollutants under the NAAQS with the exception of PM₁₀, which was determined to be unclassifiable. The SDAB is currently designated nonattainment for O₃ and particulate matter, PM₁₀ and PM_{2.5}, under the CAAQS. It is designated attainment for the CAAQS for CO, NO₂, SO₂, lead, and sulfate

Table 5 lists the attainment status for the criteria pollutants in the basin.

Table 5: San Diego County Air Basin Attainment Status

Pollutant	Federal Designation	State Designation
O ₃ (1 hour)	Attainment ¹	Nonattainment
O ₃ (8-hour)	Nonattainment	Nonattainment
CO	Attainment	Attainment
PM ₁₀	Unclassifiable ²	Nonattainment
PM _{2.5}	Attainment	Nonattainment
NO ₂	Attainment	Attainment
SO ₂	Attainment	Attainment
Lead	Attainment	Attainment
Sulfates	(No federal standard)	Attainment
Hydrogen Sulfide	(No federal standard)	Unclassified
Visibility-reducing particulates	(No federal standard)	Unclassified

Notes:
 Sources: <https://www.sandiegocounty.gov/content/sdc/apcd/en/air-quality-planning/attainment-status.html>
¹ The federal 1-hour standard of 0.12 ppm was in effect from 1979 through June 15, 2005. The revoked standard is referenced here because it was employed for such a long period and because this benchmark is addressed in State Implementation Plans.
² At the time of designation, if the available data do not support a designation of attainment or nonattainment, the area is designated as unclassifiable.

3.2 Greenhouse Gases

Constituent gases of the Earth’s atmosphere, called atmospheric greenhouse gases (GHG), play a critical role in the Earth’s radiation amount by trapping infrared radiation emitted from the Earth’s surface, which otherwise would have escaped to space. Prominent greenhouse gases contributing to this process include carbon dioxide (CO₂), methane (CH₄), ozone, water vapor, nitrous oxide (N₂O), and chlorofluorocarbons (CFCs). This phenomenon, known as the Greenhouse Effect, is responsible for maintaining a habitable climate. Anthropogenic (caused or produced by humans) emissions of these greenhouse gases in excess of natural ambient concentrations are responsible for the enhancement of the Greenhouse Effect and have led to a trend of unnatural warming of the Earth’s natural climate, known as global warming or climate change. Emissions of gases that induce global warming are attributable to human activities associated with industrial/manufacturing, agriculture, utilities, transportation, and residential land uses. Transportation is responsible for 41 percent of the State’s greenhouse gas emissions, followed by electricity generation. Emissions of CO₂ and nitrous oxide (NO₂) are byproducts of fossil fuel combustion. Methane, a potent greenhouse gas, results from off-gassing associated with agricultural practices and landfills. Sinks of CO₂, where CO₂ is stored outside of the

atmosphere, include uptake by vegetation and dissolution into the ocean. Table 6 provides a description of each of the greenhouse gases and their global warming potential.

Additional information is available: <https://www.arb.ca.gov/cc/inventory/data/data.htm>

<Table 6 on next page>

Table 6: Description of Greenhouse Gases

Greenhouse Gas	Description and Physical Properties	Sources
Nitrous oxide	Nitrous oxide (N ₂ O), also known as laughing gas is a colorless gas. It has a lifetime of 114 years. Its global warming potential is 298.	Microbial processes in soil and water, fuel combustion, and industrial processes. In addition to agricultural sources, some industrial processes (nylon production, nitric acid production) also emit N ₂ O.
Methane	Methane (CH ₄) is a flammable gas and is the main component of natural gas. It has a lifetime of 12 years. Its global warming potential is 25.	A natural source of CH ₄ is from the decay of organic matter. Methane is extracted from geological deposits (natural gas fields). Other sources are from the decay of organic material in landfills, fermentation of manure, and cattle farming.
Carbon dioxide	Carbon dioxide (CO ₂) is an odorless, colorless, natural greenhouse gas. Carbon dioxide's global warming potential is 1. The concentration in 2005 was 379 parts per million (ppm), which is an increase of about 1.4 ppm per year since 1960.	Natural sources include decomposition of dead organic matter; respiration of bacteria, plants, animals, and fungus; evaporation from oceans; and volcanic outgassing. Anthropogenic sources are from burning coal, oil, natural gas, and wood.
Chlorofluorocarbons	CFCs are nontoxic, nonflammable, insoluble, and chemically unreactive in the troposphere (the level of air at the earth's surface). They are gases formed synthetically by replacing all hydrogen atoms in methane or methane with chlorine and/or fluorine atoms. Global warming potentials range from 3,800 to 8,100.	Chlorofluorocarbons were synthesized in 1928 for use as refrigerants, aerosol propellants, and cleaning solvents. They destroy stratospheric ozone, therefore their production was stopped as required by the Montreal Protocol.
Hydrofluorocarbons	Hydrofluorocarbons (HFCs) are a group of greenhouse gases containing carbon, chlorine, and at least one hydrogen atom. Global warming potentials range from 140 to 11,700.	Hydrofluorocarbons are synthetic manmade chemicals used as a substitute for chlorofluorocarbons in applications such as automobile air conditioners and refrigerants.
Perfluorocarbons	Perfluorocarbons (PFCs) have stable molecular structures and only break down by ultraviolet rays about 60 kilometers above the Earth's surface. They have a lifetime 10,000 to 50,000 years. They have a global warming potential range of 6,200 to 9,500.	Two main sources of perfluorocarbons are primary aluminum production and semiconductor manufacturing.
Sulfur hexafluoride	Sulfur hexafluoride (SF ₆) is an inorganic, odorless, colorless, and nontoxic, nonflammable gas. It has a lifetime of 3,200 years. It has a high global warming potential, 23,900.	This gas is manmade and used for insulation in electric power transmission equipment, in the magnesium industry, in semiconductor manufacturing, and as a tracer gas for leak detection.
Notes: 1. Sources: Intergovernmental Panel on Climate Change 2014a and Intergovernmental Panel on Climate Change 2014b. https://www.ipcc.ch/publications_and_data/ar4/wg1/en/ch2s2-10-2.html		

4.0 Modeling Parameters and Assumptions

4.1 Construction

Typical emission rates from construction activities were obtained from CalEEMod Version 2022.1. The CalEEMod program uses the EMFAC2017 computer program to calculate the emission rates specific for the southwestern portion of San Diego County for construction-related employee vehicle trips and the OFFROAD2011 computer program to calculate emission rates for heavy truck operations. EMFAC2017 and OFFROAD2011 are computer programs generated by CARB that calculate composite emission rates for vehicles. Emission rates are reported by the program in grams per trip and grams per mile or grams per running hour. Using CalEEMod, the peak daily air pollutant emissions were calculated and presented below. These emissions represent the highest level of emissions for each of the construction phases in terms of air pollutant emissions.

The analysis assesses the emissions associated with the construction of the proposed project as indicated in Table 1. Using CalEEMod default timelines for construction phases and the proposed operational date, the proposed project was modeled as beginning construction no earlier than March 2023 and being completed by mid to late 2024, lasting 18 months. The phases of the construction activities which have been analyzed below are: 1) grading, 2) building, 3) paving, and 4) architectural coating. CalEEMod default construction equipment counts were used as a basis. Construction phase lengths were proportionally increased from CalEEMod default lengths to account for the 18-month construction timeline. Additional hauling trips were added to account for asphalt delivery during paving and were based on a conservative assumption of 65 square feet of coverage per cubic yard of asphalt and 16 cubic yards of asphalt per hauling trip.³ For details on construction modeling and construction equipment for each phase, please see Appendix A.

The project would be required to comply with SDAPCD Rules 52, 54, and 55 which identify measures to reduce fugitive dust and are required to be implemented at all construction sites located within the SDAB. The requirements to reduce fugitive dust in compliance with SDAPCD Rules 52, 54, and 55 were included in CalEEMod for the grading phase of construction.

The architectural coating phase involves the greatest release of VOCs. The emissions modeling for the project includes the use of low-VOC paint (50 grams per liter [g/L] for not flat coatings for the buildings and 100 [g/L] for parking lot striping) as required by SDAPCD Rule 67.0.1.⁴

4.2 Operations

Operational or long-term emissions occur over the life of the Project. Both mobile and area sources generate operational emissions. Area source emissions arise from consumer product usage, heaters

³ Reeves Construction Company. Material Calculator. <https://www.reevescc.com/asphalt-calculator/>.

⁴ Rule 67.0.1. Architectural Coatings. Table 2. February 10, 2021.

<https://www.sdapcd.org/content/dam/sdapcd/documents/rules/rule-archive/2021/Rule-67.0.1.pdf>.

that consume natural gas, gasoline-powered landscape equipment, and architectural coatings (painting). Mobile source emissions from motor vehicles are the largest single long-term source of air pollutants from the operation of the Project. Small amounts of emissions would also occur from area sources such as the consumption of natural gas for heating, hearths, and consumer product usage. The operational emissions were estimated using the latest version of CalEEMod.

Mobile Sources

Mobile sources include emissions from the additional vehicle miles generated from the proposed project. The vehicle trips associated with the proposed project are based upon the trip generation rates provided by Linscott, Law, & Greenspan Engineers which uses SANDAG's (Not So) Brief Guide of Vehicular Traffic Generation Rates for the San Diego Region (SANDAG 2002). The trip generation shows a trip generation rate of 25 trips per thousand square foot for both the office and industrial uses with the project generating a total of 4,881 trips per day with 132 of those trips being from truck traffic.⁵ Truck trips were modeled separately under Parking Lot with 40-mile lengths to account for the longer trip lengths.

The program then applies the emission factors for each trip which is provided by the EMFAC2017 model to determine the vehicular traffic pollutant emissions. The CalEEMod default trip lengths were used in this analysis. Please see CalEEMod output comments sections in Appendix A for details.

Area Sources

Area sources include emissions from consumer products, landscape equipment and architectural coatings. Landscape maintenance includes fuel combustion emissions from equipment such as lawn mowers, rototillers, shredders/grinders, blowers, trimmers, chain saws, and hedge trimmers, as well as air compressors, generators, and pumps. As specifics were not known about the landscaping equipment fleet, CalEEMod defaults were used to estimate emissions from landscaping equipment.

The architectural coating phase involves the greatest release of VOCs. The emissions modeling for the project includes the use of low-VOC paint (50 grams per liter [g/L] for not flat coatings for the buildings and 100 [g/L] for parking lot striping) as required by SDAPCD Rule 67.0.1.

Energy Usage

2022.1 CalEEMod defaults were utilized.

Solid Waste Sources

Solid waste sources include emissions from disposal of solid waste into landfills.

Energy Usage

2022.1 CalEEMod defaults were utilized. CalEEMod outputs can be found in Appendix A.

⁵ Per email conversation with Linscott, Law, & Greenspan Engineers, the 132 total truck trips are all anticipated to be heavy-duty semi-trucks (see Appendix C).

5.0 Thresholds of Significance

5.1 Air Quality Thresholds of Significance

5.1.1 CEQA Guidelines for Air Quality

The CEQA Guidelines define a significant effect on the environment as “a substantial, or potentially substantial, adverse change in the environment.” To determine if a project would have a significant impact on air quality, the type, level, and impact of emissions generated by the project must be evaluated.

The following air quality significance thresholds are contained in Appendix G of the CEQA Guidelines. A significant impact would occur if the project would:

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

While the final determination of whether a project is significant is within the purview of the Lead Agency pursuant to Section 15064(b) of the CEQA Guidelines, SDAPCD recommends that its quantitative air pollution thresholds be used to determine the significance of project emissions. If the Lead Agency finds that the project has the potential to exceed these air pollution thresholds, the project should be considered to have significant air quality impacts.

The City evaluated project emissions based on the quantitative emission thresholds established by the South Coast Air Quality Management District (SCAQMD). The City of Chula Vista is located within the San Diego Air Pollution Control District (SDAPCD); however, the SDAPCD has only established thresholds for stationary sources and not for CEQA purposes. Therefore, the City chose to use thresholds from the adjacent district, SCAQMD (City of Chula Vista, 2012). The SCAQMD sets forth quantitative emission significance thresholds below which a project would not have a significant impact on ambient air quality. It should be noted that the use of these significance thresholds is conservative, as the SCAQMD’s significance thresholds were originally based on the South Coast Air Basin extreme ozone nonattainment status for the 1-hour NAAQS, whereas the SDAB was designated as an attainment area for the 1-hour NAAQS. Project-related air quality impacts estimated in this environmental analysis would be considered significant if any of the applicable significance thresholds presented below are exceeded.

5.1.2 Regional Significance Thresholds

As discussed above, the City has established thresholds based on the quantitative emission thresholds established by the SCAQMD. These screening criteria can be used to demonstrate whether a project’s total emissions would result in a significant impact as defined by CEQA. These daily screening thresholds for construction and operations are shown in Table 7 below.

Table 7: City of Chula Vista Air Quality Significance Thresholds

Criteria Pollutants Mass Daily Thresholds		
Pollutant	Construction (pounds per day)	Operation (pounds per day)
VOCs	75	55
NOx	100	55
CO	550	550
SOx	150	150
PM10	150	150
PM2.5	55	55
Lead*	3	3
Notes: Source: SCAQMD 2019. VOC = volatile organic compound; Nox = oxides of nitrogen; CO = carbon monoxide; Sox= sulfur oxides; PM10 = coarse particulate matter; PM2.5 = fine particulate matter. *The phaseout of leaded gasoline started in 1976. Since gasoline no longer contains lead, the project is not anticipated to result in impacts related to lead; therefore, it is not discussed in this analysis.		

The thresholds listed above, and in Table 7, represent screening-level thresholds that can be used to evaluate whether project-related emissions could cause a significant impact on air quality. Emissions below the screening-level thresholds would not cause a significant impact. For nonattainment pollutants, if emissions exceed the thresholds shown in Table 7, the project could have the potential to result in a cumulatively considerable net increase in these pollutants and thus could have a significant impact on the ambient air quality.

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

5.2 Greenhouse Gas Thresholds of Significance

5.2.1 CEQA Guidelines for Greenhouse Gas

CEQA Guidelines define a significant effect on the environment as “a substantial, or potentially substantial, adverse change in the environment.” To determine if a project would have a significant impact on greenhouse gases, the type, level, and impact of emissions generated by the project must be evaluated.

The following greenhouse gas significance thresholds are contained in Appendix G of the CEQA Guidelines, which were amendments adopted into the Guidelines on March 18, 2010, pursuant to SB 97. A significant impact would occur if the project would:

- (a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment; or
- (b) Conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases.

However, despite this, currently neither the CEQA statutes, OPR guidelines, nor the draft proposed changes to the CEQA Guidelines prescribe thresholds of significance or a particular methodology for performing an impact analysis; as with most environmental topics, significance criteria are left to the judgment and discretion of the Lead Agency.

No GHG emission thresholds have been adopted by the City for land development projects. The San Diego Air Pollution Control District (SDAPCD) is considered the most appropriate agency with special knowledge in the subject area as the City is located within the SDAPCD jurisdiction. However, the SDAPCD has not issued guidance for assessing GHG impacts from land use development projects. Thus, in the absence of a threshold of significance for GHG emissions for the SDAPCD, as has been done with previous projects in the City, the project is evaluated based on the recommendation from the next closest air district, the South Coast AQMD.

This analysis follows guidance from the South Coast AQMD's Interim CEQA GHG Significance Thresholds (SCAQMD 2008). South Coast AQMD's thresholds are a tiered approach; projects may be determined to be less than significant under each tier or require further analysis under subsequent tiers. As identified in the Working Group meeting in September 2010, the five tiers are:

- Tier 1 consists of evaluating whether or not the project qualifies for any applicable exemption under CEQA.
- Tier 2 consists of determining whether or not the project is consistent with a greenhouse gas reduction plan. If a project is consistent with a qualifying local greenhouse gas reduction plan, it does not have significant greenhouse gas emissions.
- Tier 3 consists of screening values, which the lead agency can choose but must be consistent. A project's construction emissions are averaged over 30 years and are added to a project's operational emissions. If a project's emissions are under one of the following screening thresholds, then the project is less than significant:
 - All land use types: 3,000 MTCO₂e per year
 - Based on land use types: residential is 3,500 MTCO₂e per year; commercial is 1,400 MTCO₂e per year; mixed use is 3,000 MTCO₂e per year; and industrial is 10,000 MTCO₂e
- Tier 4 has the following options:

- Option 1: Reduce emissions from business as usual by a certain percentage; this percentage is currently undefined
 - Option 2: Early implementation of applicable AB 32 Scoping Plan measures
 - Option 3: Year 2020 target for service populations (SP), which includes residents and employees: 4.8 MTCO₂e/SP/year for projects and 6.6 MTCO₂e/SP/year for plans;
 - Option 3, 2035 target: 3.0 MTCO₂e/SP/year for projects and 4.1 MTCO₂e/SP/year for plans
- Tier 5 involves mitigation offsets to achieve target significance threshold.

Tier 1 and Tier 2 thresholds are based on planning consistency. This approach, which is referred to in the CEQA Guidelines as “tiering,” allows agencies to rely on programmatic analysis of GHG emissions to determine that subsequent development consistent with the regional plan would result in incremental GHG emissions contribution that represent a less than significant contribution to cumulative effects.

Tier 3 significance screening levels from SCAQMD guidance are based on the concept of establishing a 90 percent GHG emission market capture rate. A 90 percent emission capture rate means that 90 percent of total emissions from new development projects would be subject to CEQA analysis and mitigation. The market capture rate of 90 percent was developed to capture a substantial fraction of GHG emissions from new development projects while excluding small projects that will in aggregate contribute a relatively small fraction of the cumulative statewide GHG emissions. This market capture rate approach is based on guidance from the CAPCOA report CEQA & Climate Change, dated January 2008 (CAPCOA 2008). Following rationale presented in the CAPCOA Guidance, the aggregate emissions from all projects with individual annual emissions that are equal to or less than the identified screening levels for 90 percent market capture rate would not impede achievement of the statewide GHG emissions reduction targets.

Tier 4 and Tier 5 interim thresholds are intended to demonstrate project consistency with the AB 32 goal of achieving 1990 emission levels by 2020 and the SB 32 goal of reducing GHG emissions to 40 percent below 1990 levels by 2030.

Therefore, due to the project’s proposed industrial use, this analysis utilizes SCAQMD’s Tier 3 industrial threshold of 10,000 MTCO₂e per year and then, per SCAQMD’s Tier 2 thresholds, assessed in 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 SANDAG’s Regional Plan, 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 by the Scoping Plan and the City’s CAP. Furthermore, the OPR has noted that lead agencies should make a good-faith effort to

calculate or estimate GHG emissions from a project.⁶ Therefore, the GHG emissions have also been quantified below, consistent with OPR guidelines. As recommended by the Association of Environmental Professionals in the 2016 Final White Paper, construction-related emissions are amortized over a 30-year period in conjunction with the proposed project's operational emissions (AEP 2016).

5.3 Toxic Air Contaminants

Non criteria pollutants such as Hazardous Air Pollutants (HAPs) or Toxic Air Contaminants (TACs) are also regulated by the SDAPCD. Rule 1200 (Toxic Air Contaminants - New Source Review) adopted on June 12, 1996, requires evaluation of potential health risks for any new, relocated, or modified emission unit which may increase emissions of one or more toxic air contaminants. The rule requires that projects that could potentially increase cancer risk to between 1 and 10 in one million need to implement toxics best available control technology (T-BACT) or impose the most effective emission limitation, emission control device or control technique to reduce the cancer risk. At no time shall the project increase the cancer risk to over 10 in one million or a health hazard index (chronic and acute) greater than one. Projects creating cancer risks less than one in one million are not required to implement T-BACT technology.

Therefore, the threshold for toxic air contaminants (TACs) is a maximum incremental cancer risk of 10 per million and a non-cancer (acute and chronic) hazard index of 1.0 or greater. An exceedance to these values would be considered a significant impact.

⁶ OPR Technical Advisory, page 5.

6.0 Air Quality Emissions Impact

6.1 Construction Air Quality Emissions Impact

The latest version of CalEEMod was used to estimate the construction emissions. The emissions incorporate adherence to SDAPCD Rules 51, 52, 54, 55, 67, and 1200 (as identified in Section 4.1 above). Adherence to these rules are not considered mitigation measures as the project by default is required to incorporate these rules during construction.

6.1.1 Temporary Construction Emissions

The construction emissions for the project would not exceed the City’s screening level thresholds during project construction, as demonstrated in Table 8, and therefore would be considered less than significant. Construction modeling parameters and assumptions can be found in Section 4.1.

Table 8: Estimated Maximum Daily Construction Criteria Air Pollutant Emissions

Activity	Pollutant Emissions ¹					
	VOC	NOx	CO	SO ₂	PM10	PM2.5
2023	2.14	22.40	21.30	0.05	4.28	2.38
2024	32.10	12.60	17.30	0.03	1.33	0.67
Maximum Daily Emissions	32.10	22.40	21.30	0.05	4.28	2.38
Chula Vista Threshold	75	100	550	150	150	55
Exceeds Threshold?	No	No	No	No	No	No
Notes: Source: CalEEMod Version 2022.1 ¹ Grading phases incorporate anticipated emissions reductions required by SDAPCD Rules 52, 54, and 55 to reduce fugitive dust. The architectural coating phases incorporate anticipated emissions reductions required by SDAPCD Rule 67.						

6.1.2 Construction-Related Toxic Air Contaminant Impact

The greatest potential for toxic air contaminant emissions would be related to diesel particulate emissions associated with heavy equipment operations during construction of the proposed project. The Office of Environmental Health Hazard Assessment (OEHHA) has issued the Air Toxic Hot Spots Program Risk Assessment Guidelines and Guidance Manual for the Preparation of Health Risk Assessments, February 2015 to provide a description of the algorithms, recommended exposure variates, cancer and noncancer health values, and the air modeling protocols needed to perform a health risk assessment (HRA) under the Air Toxics Hot Spots Information and Assessment Act of 1987. Hazard identification includes identifying all substances that are evaluated for cancer risk and/or noncancer acute, 8-hour, and chronic health impacts. In addition, identifying any multi-pathway substances that present a cancer risk or chronic noncancer hazard via non-inhalation routes of exposure.

CARB In-Use Off-Road Diesel-Fueled Fleets Regulation limits unnecessary idling to 5 minutes, requires all construction fleets to be labeled and reported to CARB, bans Tier 0 equipment, and phases out Tier 1 and 2 equipment thereby replacing fleets with cleaner equipment, and requires that fleets comply with Best Available Control Technology requirements.

The closest existing sensitive receptors (to the site area) are the single-family residential land uses located 30 feet to the west and the multi-family residential land uses located 40 feet to the north of the project site.

SDAPCD has not established guidance for conducting construction health risk assessments. Additionally, the SCAQMD, the adjacent air quality district to the north, does not require land use development projects to prepare quantitative construction HRAs and therefore has no guidance on the preparation of construction HRAs. Given the relatively limited number of heavy-duty construction equipment and construction schedule, the proposed project can qualitatively be determined to not result in a long-term substantial source of toxic air containment emissions and corresponding individual cancer risk. Furthermore, construction-based particulate matter (PM) emissions (including diesel exhaust emissions) do not exceed any local or regional thresholds. Therefore, no significant short-term toxic air contaminant impacts would occur during construction of the proposed project.

6.2 Operational Air Quality Emissions Impact

6.2.1 Operational Emissions

The operations-related criteria air quality impacts created by the proposed project have been analyzed through the use of CalEEMod model. The operating emissions were based on year 2024, which is the anticipated opening year for the project. The summer and winter emissions created by the proposed project’s long-term operations were calculated and the highest emissions from either summer or winter are summarized in Table 9. Emissions were modeled according to the parameters and assumptions established in Section 4.2.

Table 9: Estimated Maximum Daily Operational Criteria Air Pollutant Emissions

Activity	Pollutant Emissions (pounds/day) ¹					
	VOC	NOx	CO	SO2	PM10	PM2.5
Area Sources ²	5.35	0.07	7.75	0.00	0.01	0.01
Energy Usage ³	0.04	0.70	0.59	0.00	0.05	0.05
Mobile Sources ⁴	20.40	38.10	139.00	0.46	12.30	2.74
Total Emissions	25.79	38.87	147.34	0.46	12.36	2.80
Chula Vista Thresholds	55	55	550	150	150	55
Exceeds Threshold?	No	No	No	No	No	No

¹ Source: CalEEMod Version 2022.1

² Area sources consist of emissions from consumer products, architectural coatings, and landscaping equipment.

³ Energy usage consists of emissions from on-site natural gas usage.

⁴ Mobile sources consist of emissions from vehicles and road dust.

The data in Table 9 shows that emissions from the operation of the proposed project does not exceed City thresholds. Therefore, the impact is considered less than significant.

6.3 CO Hot Spot Emissions

CO is the pollutant of major concern along roadways because the most notable source of CO is motor vehicles. For this reason, CO concentrations are usually indicative of the local air quality generated by a roadway network and are used as an indicator of potential local air quality impacts. Local air quality impacts can be assessed by comparing future without and with project CO levels to the State and Federal CO standards.

The SDAB is classified as a state attainment area and as a federal maintenance area for CO. Until 2003, no violations of the state standard for CO had been recorded in the SDAB since 1991, and no violations of the national standard had been recorded in the SDAB since 1989. The violations that took place in 2003 were likely the result of massive wildfires that occurred throughout the county. No violations of the state or federal CO standards have occurred since 2003.

Small-scale, localized concentrations of CO above the state and national standards have the potential to occur at intersections with stagnation points such as those that occur on major highways and heavily traveled and congested roadways. Localized high concentrations of CO are referred to as “CO hot spots” and are a concern at congested intersections, where automobile engines burn fuel less efficiently and their exhaust contains more CO.

Localized CO concentration is a direct function of motor vehicle activity at signalized intersections (e.g., idling time and traffic flow conditions), particularly during peak commute hours and meteorological conditions. The SDAB is a CO maintenance area under the federal CAA. This means that SDAB was previously a non-attainment area and is currently implementing a 10-year plan for continuing to meet and maintain air quality standards.

The SDAB is a CO maintenance area (western and central part of the SDAB only). As a screening analysis, the SCAQMD conducted CO modeling for the 2003 AQMP (Appendix V: Modeling and Attainment Demonstrations, SCAQMD 2003) for the four worst-case intersections in the SCAB: (1) Wilshire Boulevard and Veteran Avenue, (2) Sunset Boulevard and Highland Avenue, (3) La Cienega Boulevard and Century Boulevard, and (4) Long Beach Boulevard and Imperial Highway. At the time the 2003 AQMP was prepared, the intersection of Wilshire Boulevard and Veteran Avenue was the most congested intersection in Los Angeles County, with an average daily traffic volume of about 100,000 vehicles per day. Using CO emission factors for 2002, the peak modeled CO 1-hour concentration was estimated to be 4.6 ppm at the intersection of Wilshire Boulevard and Veteran Avenue. The 2003 AQMP also projected 8-hour CO concentrations at these four intersections for 1997 and from 2002 through 2005. From years 2002 through 2005, the maximum 8-hour CO concentration was 3.8 ppm at the Sunset Boulevard and Highland Avenue intersection in 2002; the maximum 8-hour CO concentration was 3.4 ppm at the Wilshire Boulevard and Veteran Avenue in 2002. Therefore, an intersection would need over 200,000 vehicles per day to exceed the 8-hour CO CAAQS (9.0 ppm) or 400,000 vehicles per day to exceed 1-hour CO CAAQS (20 ppm).

Accordingly, CO concentrations at congested intersections would not exceed the 8-hour CO CAAQS if projected daily traffic would generate less than 200,000 vehicles per day or the 1-hour CO CAAQS for less than 400,000 vehicles per day. The proposed project is anticipated to generate approximately

4,881 vehicle trips per day and the maximum cumulative vehicle trips at a nearby road would be 18,235 vehicles per day on Brandywine Avenue between Shinohara Lane and Main Street (Linscott, Law, & Greenspan). Therefore, the proposed project would not be anticipated to increase daily traffic volumes at any study intersection to more than 200,000 vehicles per day, a CO hotspot is not anticipated to occur and associated impacts would be less than significant.

6.4 Odors

SDAPCD Rule 51, commonly referred to as the public nuisance rule, prohibits emissions from any source whatsoever in such quantities of air contaminants or other material that cause injury, detriment, nuisance, or annoyance to the public health or damage to property. The potential for an operation to result in odor complaints from a “considerable” number of persons in the area would be considered to be a significant, adverse odor impact.

Potential sources that may emit odors during construction activities include the application of materials such as asphalt pavement. The objectionable odors that may be produced during the construction process are of short-term in nature and the odor emissions are expected cease upon the drying or hardening of the odor producing materials. Diesel exhaust and VOCs would be emitted during construction of the project, which are objectionable to some; however, emissions would disperse rapidly from the project site and therefore should not reach an objectionable level at the nearest sensitive receptors. Furthermore, construction emissions would not exceed City of Chula Vista thresholds. Due to the short-term nature and limited amounts of odor producing materials being utilized, no significant impact related to odors would occur during construction of the proposed project.

Land uses and industrial operations typically associated with odor complains include agricultural uses, wastewater treatment plants, food processing plants, chemical plants, refineries, landfills, dairies, and fiberglass molding. The proposed operations including a site-specific warehouse/distribution use that includes 168,926 square feet of warehouse space, 4,506 square feet of office space, and 4,724 square feet of mezzanine space. The anticipated uses for the proposed industrial use are not typically associated with objectionable odors. Therefore, no significant impact related to odors would occur during the on-going operations of the proposed project.

6.5 Cumulative Regional Air Quality Impacts

Cumulative projects include local development as well as general growth within the project area. A list of projects that could contribute to a cumulative impact with the project are included in Appendix B. However, as with most development, the greatest source of emissions is from mobile sources, which travel well out of the local area. Therefore, from an air quality standpoint, the cumulative analysis would extend beyond any local projects and when wind patterns are considered, would cover an even larger area. Accordingly, the cumulative analysis for the project’s air quality must be generic by nature.

The project area is out of attainment for O₃ for federal standards and O₃, PM₁₀, and PM_{2.5} for state standards. Construction and operation of cumulative projects will further degrade the local air quality, as well as the air quality of the SDAB. As discussed previously, the construction related emissions will

be below the SCAQMD significance levels utilized by the City and would not result in significant impacts to air quality. Construction will be short-term and consistent with the size and scale of the project. Construction of the project will potentially be conducted at the same time and in the same general vicinity as other major construction projects; however, in accordance with the SCAQMD methodology, projects that do not exceed the SCAQMD criteria or can be mitigated to less than criteria levels are not significant and do not add to the overall cumulative impact. The project does not exceed any of the thresholds of significance and therefore is not considered to contribute to a significant cumulative impact on air quality.

Furthermore, the project will not contribute to any cumulative odor impacts through compliance with SDAPCD Rule 51 which prohibits emissions from a project that would cause injury, detriment, nuisance, or annoyance to the public health or damage to property, as discussed in Section 6.4.

As stated earlier, the RAQS relies on SANDAG growth projections based on population, vehicle trends, and land use plans developed by the cities and by the county as part of the development of their general plans. It is assumed that a project which conforms to the General Plan, and does not have emissions exceeding operational thresholds discussed in Section 5.1, will not create a cumulatively considerable net increase to ozone since the emissions were accounted for in the RAQS. The project site has a land use designation of Limited Industrial (IL) according to the City of Chula Vista General Plan Land Use Diagram. Per the General Plan, the IL designation is intended for light manufacturing; warehousing; certain public utilities; auto repair; auto salvage yards; and flexible-use projects that combine these uses with associated office space. Therefore, the project would be consistent with the existing general plan and zoning for the City of Chula Vista; therefore, the project would be considered consistent with the RAQS. Furthermore, operational emissions generated by the project would be below the established significance thresholds for criteria pollutants as shown in Table 9, and the project's operational emissions would not result in a cumulatively considerable contribution to the region's poor air quality. Cumulative air quality impacts would, therefore, be less than significant.

6.6 Health and Equity Impacts

Existing pollution and socioeconomic vulnerability are key factors in determining the full impact of a project. CalEnviroScreen (CES) 4.0 creates a score based on the existing pollution burden and population characteristics to demonstrate the effects of pollution burden. The maximum CES score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state. The CES score for the project area is currently 66. Additionally, the California Healthy Places Index (HPI) is based on a composite of all HPI indicators and scores the existing health of a community. The maximum HPI score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state. The HPI for the existing project area is 57.

The project would not exceed any thresholds of significance as demonstrated in sections 6.1 and 6.2 and would not contribute to a cumulative impact in the area, as discussed in section 6.5. Therefore, the project would not contribute to a worsening of the health and equity of the area. Furthermore, the project will be implementing programs to improve social equity, encouraging community input in the

project and maintaining community communication. The complete list of health and equity measures to be implemented can be found in the CalEEMod output in Appendix A. Based on these measures, the project would qualify for the first tier of the CalEEMod Health and Equity Evaluation Scorecard, the Acorn equity award level.

6.7 Air Quality Compliance

The California Environmental Quality Act (CEQA) requires a discussion of any inconsistencies between a proposed project and applicable General Plans and Regional Plans (CEQA Guidelines Section 15125). The regional plan that applies to the proposed project includes the RAQS. Therefore, this section discusses any potential inconsistencies of the proposed project with the RAQS.

The purpose of this discussion is to set forth the issues regarding consistency with the assumptions and objectives of the RAQS and discuss whether the proposed project would interfere with the region's ability to comply with Federal and State air quality standards. If the decision-makers determine that the proposed project is inconsistent, the lead agency may consider project modifications or inclusion of mitigation to eliminate the inconsistency.

The RAQS relies on information from CARB and SANDAG, including projected growth in the County, mobile, area, and all other source emissions in order to project future emissions and determine strategies necessary for the reduction of stationary source emissions. Those projects that propose development that is consistent with the City's General Plan are; therefore, consistent with the RAQS.

SANDAG's Regional Growth Forecast notes that the City will add 42,107 new jobs between 2016 and 2050.⁷ The project is projected to create 350 new jobs, or 0.832%, less than 1%, of the 42,107 new jobs projected by SANDAG over the next 34 years. As the tenant is unknown at this time, the projection of 350 new jobs may be high, but it illustrates what may occur on the site and is not a substantial growth in employment. These positions would be expected to be filled by Chula Vista residents and others in the surrounding area. Because the project is not residential it would not generate direct population or housing growth and the relatively small employment growth associated with the project would be consistent with SANDAG's employment forecast and the City's General Plan. Therefore, the project is consistent with the RAQS.

⁷ SANDAG Regional Growth Forecast [appendix-f---regional-growth-forecast-and-scs-land-use-pattern.pdf \(sdforward.com\)](https://www.sdforward.com/appendix-f---regional-growth-forecast-and-scs-land-use-pattern.pdf).

7.0 Greenhouse Gas Impact Analysis

7.1 Construction Greenhouse Gas Emissions Impact

The greenhouse gas emissions from project construction equipment and worker vehicles are shown in Table 10. The emissions are from all phases of construction. Construction-related emissions are amortized over a 30-year period in conjunction with the proposed project’s operational emissions as recommended by Association of Environmental Professionals (AEP 2016).

The total construction emissions amortized over a period of 30 years are estimated at 21.97 metric tons of CO₂e per year. Annual CalEEMod output calculations are provided in Appendix A.

Table 10: Estimated Annual Construction Greenhouse Gas Emissions

Year	Metric Tons Per Year					
	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e (MT)
2023	0.00	395.00	395.00	0.02	0.02	401.00
2024	0.00	254.00	254.00	0.01	0.01	258.00
Total	0.00	649.00	649.00	0.03	0.03	659.00
Amortized Construction Emissions						21.97
Notes:						
1. MTCO ₂ e=metric tons of carbon dioxide equivalents (includes carbon dioxide, methane and nitrous oxide).						
2. The emissions are averaged over 30 years.						
* CalEEMod output (Appendix A)						

7.2 Operational Greenhouse Gas Emissions Impact

Operational emissions occur over the life of the project. Table 11 shows that the total for the proposed project’s emissions (baseline emissions without credit for any reductions from sustainable design and/or regulatory requirements) would be 9,293.88 metric tons of CO₂e per year. Therefore, as the total emissions for the proposed project would not exceed the SCAQMD draft Tier 3 industrial threshold of 10,000 MT of CO₂e per year, impacts are considered to be less than significant.

Table 11: Opening Year Project-Related Greenhouse Gas Emissions

Category	Greenhouse Gas Emissions (Metric Tons/Year) ¹						
	Bio-CO2	NonBio-CO2	CO ₂	CH ₄	N ₂ O	R	CO ₂ e
Area Sources ²	0.00	2.60	2.60	0.00	0.00	0.00	2.61
Energy Usage ³	0.00	386.00	386.00	0.03	0.00	0.00	387.00
Mobile Sources ⁴	0.00	7,684.00	7,684.00	0.43	0.69	11.00	7,911.00
Solid Waste ⁵	14.90	0.00	14.90	1.49	0.00	0.00	52.30
Water ⁶	13.10	76.30	89.40	1.34	0.03	0.00	133.00
Refrigerants	0.00	0.00	0.00	0.00	0.00	786.00	786.00
Subtotal Emissions	28.00	8,148.90	8,176.90	3.29	0.72	797.00	9,271.91
Amortized Construction Emissions							21.97
Total Emissions							9,293.88
Threshold							10,000
Exceeds Threshold?							No
Notes:							

¹ Source: CalEEMod Version 2022.1

² Area sources consist of GHG emissions from consumer products, architectural coatings, and landscape equipment.

³ Energy usage consist of GHG emissions from electricity and natural gas usage.

⁴ Mobile sources consist of GHG emissions from vehicles.

⁵ Solid waste includes the CO₂ and CH₄ emissions created from the solid waste placed in landfills.

⁶ Water includes GHG emissions from electricity used for transport of water and processing of wastewater.

⁷ Construction GHG emissions based on a 30 year amortization rate.

7.3 Greenhouse Gas Plan Consistency

The proposed project could have the potential to conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases. The project’s GHG impacts are evaluated by assessing the project’s consistency with applicable statewide, regional, and local GHG reduction plans and strategies.

The Office of Planning and Research (OPR) encourages lead agencies to make use of programmatic mitigation plans and programs from which to tier when they perform individual project analyses. The City has adopted the City of Chula Vista CAP which encourage and require applicable projects to implement energy efficiency measures. In addition, the California Climate Action Team (CAT) Report provides recommendations for specific emission reduction strategies for reducing GHG emissions and reaching the targets established in AB 32 and Executive Order S-3-05. On a statewide level, the 2008 Climate Change Scoping Plan provides measures to achieve AB 32 targets. On a regional level, the SANDAG’s Regional Plan contains measures to achieve VMT reductions required under SB 375. Thus, if the project complies with these plans, policies, regulations, and requirements, the project would result in a less than significant impact because it would be consistent with the overarching state, regional, and local plans for GHG reduction.

A consistency analysis is provided below and describes the project’s compliance with or exceedance of performance-based standards included in the regulations outlined in the applicable portions of the City of Chula Vista CAP, 2008 and 2017 Climate Change Scoping Plan, and SANDAG’s Regional Plan.

City of Chula Vista CAP Consistency Analysis

The focus of the City’s updated CAP included promoting energy- and water-efficient buildings, smart growth and clean transit, zero waste policies, and increased local energy generation and water resources. Table 12 summarizes reduction strategies from the CAP and evaluates project consistency with each strategy. As shown in Table 12, as many of the CAP reduction strategies would be implemented directly by the City they are not applicable to individual development projects. The project would be consistent with all applicable CAP reduction strategies; therefore, the project would not conflict with the CAP.

<Table 12, next page>

Table 12: Project Consistency with the City of Chula Vista Climate Action Plan

Category	Reduction Strategy	Project Consistency
Water Conservation & Reuse		
Water Education and Enforcement	Expand education and enforcement targeting landscape water waste.	Not applicable. The project would not impede efforts to expand education or enforcement targeting landscaping water waste.
Water Efficiency Upgrades	Update the City's Landscape Water Conservation Ordinance to promote more water-wise landscaping designs.	Not applicable. The project would not impede efforts to update the City's Landscape Water Conservation Ordinance.
	Require water-saving retrofits in existing buildings at a specific point in time.	Not applicable. The project does not include the re-use of existing buildings and would not impede efforts to require water-saving retrofits in existing buildings.
Water Reuse Plan & System Installations	Develop a Water Reuse Master Plan to maximize the use of storm water, graywater, and onsite water reclamation.	Not applicable. The project would not impede efforts to develop a Water Reuse Master Plan. The project will comply with the City's landscape ordinance.
	Streamline complex graywater system's permit review.	Not applicable. The project would not impede efforts to streamline permit review for graywater systems.
Waste Reduction		
Zero Waste Plan	Develop a Zero Waste Plan to supplement statewide green waste, recycling, and plastic bag ban efforts.	Not applicable. The project would not impede efforts to develop a Zero Waste Plan. The site will include onsite recycling storage.
Renewable & Energy Efficient		
Energy Education & Enforcement	Expand education targeting key community segments and facilitating energy performance disclosure.	Not applicable. The project would not impede efforts to expand energy education and performance disclosure.
	Leverage the building inspection process to distribute energy-related information and to deter unpermitted, low performing energy improvements.	Not applicable. The project would not impede efforts to distribute energy related information

Clean Energy Sources	Incorporate Solar Photovoltaic into all new residential and commercial buildings.	Not applicable. The project is an industrial project and would not impede efforts to adopt pre-wiring standards or to develop a solar photovoltaic requirement in residential and commercial buildings.
	Provide more grid-delivered clean energy through Community Choice Aggregation or other mechanism.	Not applicable. The project would not impede efforts to provide grid-delivered clean energy.
Energy Efficiency Upgrades	Expand the City's "cool roof" standards to include re-roofs and western areas.	Not applicable. The project would not impede efforts to revise the City's "cool roof" standards to include re-roofs and western areas. The project will include cool roofs as compliance with Title 24 standards.
	Facilitate more energy upgrades in the community through incentives, permit streamlining and education.	Not applicable. The project would not impede efforts to facilitate energy upgrades in the community.
	Require energy-savings retrofits in existing buildings at a specific point in time.	Not applicable. The project would not impede efforts to require energy savings retrofits in existing buildings.
Robust Urban Forests	Plant more shade trees to save energy, address heat island issues, and improve air quality.	Consistent. The project will be required to plant shade trees within the parking lot, along the project perimeter, etc. as per specifications identified within the City's Municipal Code for industrial uses.
Smart Growth & Transportation		
Complete Streets & Neighborhoods	Incorporate "Complete Streets" principles into municipal capital projects and plans.	Not applicable. The project would not impede efforts to improve municipal capital projects and plans.
	Encourage higher density and mixed-use development in Smart Growth areas, especially around trolley stations and other transit nodes.	Not applicable. The project would not impede efforts to construct additional high density and mixed-use development in Smart Growth areas.
Transportation Demand Management	Utilize bike facilities, transit access/passes and other Transportation Demand Management and congestion management offerings.	Not applicable. The project would not impede efforts to develop Transportation Demand Management and congestion management offerings. Furthermore, the project site is located in close proximity to existing transit stops, with stops located as close as approximately 0.2 miles south of the project site. The project does require a Transportation

		Demand Management plan.
	Expand bike-sharing, car-sharing, and other “last mile” transportation options.	Not applicable. The project would not impede efforts to develop Transportation Demand Management and congestion management offerings. The project will include a minimum of 10 bicycle parking stalls. Furthermore, the project site is located in close proximity to existing transit stops, with stops located as close as approximately 0.2 miles south of the project site.
Alternative Fuel Vehicle Readiness	Support the installation of more local alternative fueling stations.	Not applicable. The project would not impede efforts to install more local alternative fueling stations.
	Designate preferred parking for alternative fuel vehicles.	Consistent. The project will include 21 Clean Air Vehicle parking stalls and 18 electric vehicle charging stalls.
	Design all new residential and commercial buildings to be “Electric Vehicle Ready.”	Not applicable. The project is not a residential or commercial use; however, it would be designed to comply with 2019 CalGreen requirements for provisions of electric vehicle charging equipment.
Notes: ¹ Source: Chula Vista Climate Action Plan, September 2017.		

Consistency with SANDAG’s San Diego Forward: the Regional Plan

Regarding consistency with SANDAG’s Regional Plan, the proposed project would include site design elements and project design features developed to support the policy objectives of the RTP and SB 375.

Table 13 illustrates the proposed project’s consistency with all applicable goals and policies of the Regional Plan (SANDAG 2021).

Table 13: Project Consistency with San Diego Forward: The Regional Plan¹

Category	Policy Objective or Strategy	Consistency Analysis
The Regional Plan - Policy Objectives		
Mobility Choices	Provide safe, secure, healthy, affordable, and convenient travel choices between the places where people live, work, and play.	Consistent. The proposed project is located near MTS bus route 703/704 and Interstate 805.
Mobility Choices	Take advantage of new technologies to make the transportation system more efficient and environmentally friendly.	Not applicable. The proposed project would not impair SANDAG's ability to employ new technologies to make travel more reliable and convenient.
Habitat and Open Space Preservation	Focus growth in areas that are already urbanized, allowing the region to set aside and restore more open space in our less developed areas.	Consistent. The proposed project is surrounded by existing residential and commercial development and would be located close to major urban centers. Furthermore, the proposed project would also be a source of employment.
Habitat and Open Space Preservation	Protect and restore our region's urban canyons, coastlines, beaches, and water resources.	Not Applicable. The proposed project would not impair the ability of SANDAG to protect and restore urban canyons, coastlines, beaches, and water resources. Furthermore, the proposed project is located in an already developed area.
Regional Economic Prosperity	Invest in transportation projects that provide access for all communities to a variety of jobs with competitive wages.	Not Applicable. The proposed project would not impair the ability of SANDAG to invest in transportation projects available to all members of the Community.
Regional Economic Prosperity	Build infrastructure that makes the movement of freight in our community more efficient and environmentally friendly.	Consistent. The project proposes the development of the site with a site specific warehouse/distribution building and the site is located near Interstate 805.
Partnerships/Collaboration	Collaborate with Native American tribes, Mexico, military bases, neighboring counties, infrastructure providers, the private sector, and local communities to design a transportation system that connects to the mega-region and national network, works for everyone, and fosters a high quality of life for all.	Not Applicable. The proposed project would not impair the ability of SANDAG to provide transportation choices to better connect the San Diego region with Mexico, neighboring counties, and tribal nations.
Partnerships/Collaboration	As we plan for our region, recognize the vital economic, environmental, cultural, and community linkages between the San Diego region and Baja California.	Not Applicable. The proposed project would not impair the ability of SANDAG to provide transportation choices to better connect the San Diego region with Mexico.

Healthy and Complete Communities	Create great places for everyone to live, work, and play.	Consistent. The proposed project is an industrial project with a current land use designation of Limited Industrial (IL) according to the City of Chula Vista General Plan Land Use Diagram. The proposed industrial project is located near MTS bus route 703/704 and Interstate 805. The project site is also surrounded by existing residential and commercial uses.
Healthy and Complete Communities	Connect communities through a variety of transportation choices that promote healthy lifestyles, including walking and biking.	Consistent. The proposed project is an industrial project located near MTS bus route 703/704 and Interstate 805. The project site is also surrounded by existing residential and commercial uses.
Environmental Stewardship	Make transportation investments that result in cleaner air, environmental protection, conservation, efficiency, and sustainable living.	Consistent. The proposed project is an industrial project located near MTS bus route 703/704 and Interstate 805.
Environmental Stewardship	Support energy programs that promote sustainability.	Consistent. The proposed project would be in compliance with the current building standards.
Sustainable Communities Strategy - Strategies		
Strategy Number 1	Focus housing and job growth in urbanized areas where there is existing and planned transportation infrastructure, including transit.	Consistent. The proposed project would be located close to major urban centers as it is located near MTS bus route 703/704 and Interstate 805 and is surrounded by existing commercial and residential development. Furthermore, the proposed project would also be a source of employment.
Strategy Number 2	Protect the environment and help ensure the success of smart growth land use policies by preserving sensitive habitat, open space, cultural resources, and farmland.	Consistent. The proposed project would be located close to major urban centers as it is located near MTS bus route 703/704 and Interstate 805 and is surrounded by existing commercial and residential development.
Strategy Number 3	Invest in a transportation network that gives people transportation choices and reduces greenhouse gas emissions.	Consistent. The proposed project is an industrial project located near MTS bus route 703/704 and Interstate 805.
Strategy Number 4	Address the housing needs of all economic segments of the population.	Not Applicable. The proposed project would not impair the ability of SANDAG to address housing needs of all economic segments of the population.

Strategy Number 5	Implement the Regional Plan through incentives and collaboration.	Not Applicable. The proposed project would not impair the ability of SANDAG to implement the Regional Transportation Plan through incentives and collaborations.
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Notes:

MTS = San Diego Metropolitan Transit System; SANDAG = San Diego Association of Governments.

¹Source: SANDAG, 2021.

As shown in Table 13, the proposed project is consistent with all applicable Regional Plan Policy Objectives or Strategies. Impacts would be less than significant.

CARB Scoping Plan Consistency

The ARB Board approved a Climate Change Scoping Plan in December 2008. The Scoping Plan outlines the State’s strategy to achieve the 2020 greenhouse gas emissions limit. The Scoping Plan “proposes a comprehensive set of actions designed to reduce overall greenhouse gas emissions in California, improve our environment, reduce our dependence on oil, diversify our energy sources, save energy, create new jobs, and enhance public health” (California Air Resources Board 2008). The measures in the Scoping Plan have been in place since 2012.

In November 2017, CARB release the 2017 Scoping Plan. This Scoping Plan incorporates, coordinates, and leverages many existing and ongoing efforts and identifies new policies and actions to accomplish the State’s climate goals, and includes a description of a suite of specific actions to meet the State’s 2030 GHG limit. In addition, Chapter 4 provides a broader description of the many actions and proposals being explored across the sectors, including the natural resources sector, to achieve the State’s mid and long-term climate goals.

Guided by legislative direction, the actions identified in the 2017 Scoping Plan reduce overall GHG emissions in California and deliver policy signals that will continue to drive investment and certainty in a low carbon economy. The 2017 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. The Plan includes policies to require direct GHG reductions at some of the State’s largest stationary sources and mobile sources. These policies include the use of lower GHG fuels, efficiency regulations, and the Cap-and Trade Program, which constrains and reduces emissions at covered sources.

As the latest, 2017 Scoping Plan builds upon previous versions, project consistency with applicable strategies of both the 2008 and 2017 Plan are assessed in Table 14. As shown in Table 14, the project is consistent with the applicable strategies and would result in a less than significant impact.

Table 14: Project Consistency with CARB Scoping Plan Policies and Measures¹

2008 Scoping Plan Measures to Reduce Greenhouse Gas Emissions	Project Compliance with Measure
California Light-Duty Vehicle Greenhouse Gas Standards – Implement adopted standards and planned second phase of the program. Align zero-emission vehicle, alternative and renewable fuel and vehicle technology programs with long-term climate change goals.	Consistent. These are CARB enforced standards; vehicles that access the project that are required to comply with the standards will comply with the strategy.
Energy Efficiency – Maximize energy efficiency building and appliance standards; pursue additional efficiency including new technologies, policy, and implementation mechanisms. Pursue comparable investment in energy efficiency from all retail providers of electricity in California.	Consistent. The project will be compliant with the current Title 24 standards.
Low Carbon Fuel Standard – Develop and adopt the Low Carbon Fuel Standard.	Consistent. These are CARB enforced standards; vehicles that access the project that are required to comply with the standards will comply with the strategy.
Vehicle Efficiency Measures – Implement light-duty vehicle efficiency measures.	Consistent. These are CARB enforced standards; vehicles that access the project that are required to comply with the standards will comply with the strategy.
Medium/Heavy-Duty Vehicles – Adopt medium and heavy-duty vehicle efficiency measures.	Consistent. These are CARB enforced standards; vehicles that access the project that are required to comply with the standards will comply with the strategy.
Green Building Strategy – Expand the use of green building practices to reduce the carbon footprint of California’s new and existing inventory of buildings.	Consistent. The California Green Building Standards Code (proposed Part 11, Title 24) was adopted as part of the California Building Standards Code in the CCR. Part 11 establishes voluntary standards, that are mandatory in the 2019 edition of the Code, on planning and design for sustainable site development, energy efficiency (in excess of the California Energy Code requirements), water conservation, material conservation, and internal air contaminants. The project will be subject to these mandatory standards.
High Global Warming Potential Gases – Adopt measures to reduce high global warming potential gases.	Consistent. CARB identified five measures that reduce HFC emissions from vehicular and commercial refrigeration systems; vehicles that access the project that are required to comply with the measures will comply with the strategy.

<p>Recycling and Waste – Reduce methane emissions at landfills. Increase waste diversion, composting, and commercial recycling. Move toward zero-waste.</p>	<p>Consistent. The state is currently developing a regulation to reduce methane emissions from municipal solid waste landfills. The project will be required to comply with City programs, such as any City recycling and waste reduction programs, which comply, with the 75 percent reduction required by 2020 per AB 341.</p>
<p>Water – Continue efficiency programs and use cleaner energy sources to move and treat water.</p>	<p>Consistent. The project will comply with all applicable City ordinances and CAL Green requirements.</p>
<p>2017 Scoping Plan Recommended Actions to Reduce Greenhouse Gas Emissions</p>	<p>Project Compliance with Recommended Action</p>
<p>Implement Mobile Source Strategy: Further increase GHG stringency on all light-duty vehicles beyond existing Advanced Clean Car regulations.</p>	<p>Consistent. These are CARB enforced standards; vehicles that access the project that are required to comply with the standards will comply with the strategy.</p>
<p>Implement Mobile Source Strategy: At least 1.5 million zero emission and plug-in hybrid light-duty electric vehicles by 2025 and at least 4.2 million zero emission and plug-in hybrid light-duty electric vehicles by 2030.</p>	<p>Consistent. These are CARB enforced standards; vehicles that access the project that are required to comply with the standards will comply with the strategy.</p>
<p>Implement Mobile Source Strategy: Innovative Clean Transit: Transition to a suite of to-be-determined innovative clean transit options. Assumed 20 percent of new urban buses purchased beginning in 2018 will be zero emission buses with the penetration of zero-emission technology ramped up to 100 percent of new sales in 2030. Also, new natural gas buses, starting in 2018, and diesel buses, starting in 2020, meet the optional heavy-duty low-NOX standard.</p>	<p>Consistent. These are CARB enforced standards; vehicles that access the project that are required to comply with the standards will comply with the strategy.</p>
<p>Implement Mobile Source Strategy: Last Mile Delivery: New regulation that would result in the use of low NOX or cleaner engines and the deployment of increasing numbers of zero-emission trucks primarily for class 3-7 last mile delivery trucks in California. This measure assumes ZEVs comprise 2.5 percent of new Class 3–7 truck sales in local fleets starting in 2020, increasing to 10 percent in 2025 and remaining flat through 2030.</p>	<p>Consistent. These are CARB enforced standards; vehicles that access the project that are required to comply with the standards will comply with the strategy.</p>
<p>Implement SB 350 by 2030: Establish annual targets for statewide energy efficiency savings and demand reduction that will achieve a cumulative doubling of statewide energy efficiency savings in electricity and natural gas end uses by 2030.</p>	<p>Consistent. The project will be compliant with the current Title 24 standards.</p>
<p>By 2019, develop regulations and programs to support organic waste landfill reduction goals in the SLCP and SB 1383.</p>	<p>Consistent. The project will be required to comply with City programs, such as any City recycling and waste reduction programs, which comply, with the 75 percent reduction required by 2020 per AB 341.</p>
<p>Notes: ¹ Source: CARB Scoping Plan (2008 and 2017)</p>	

Therefore, the project will not conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases. Impacts are considered to be less than significant.

8.0 Health Risk Assessment

8.1 Diesel Emissions Health Risk Assessment

The on-going operation of the proposed project would generate toxic air contaminant emissions from diesel truck emissions. According to OEHHA methodology, health effects from carcinogenic air toxics are usually described in terms of individual cancer risk. "Individual Cancer Risk" is the likelihood that a person exposed to concentrations of toxic air contaminants over a 30-year lifetime will contract cancer, based on the use of revised Office of Environmental Health Hazard Assessment (OEHHA) risk-assessment methodology.⁸

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

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

8.1.1 Health Risk Assessment Assumptions

Important issues that affect the dispersion modeling include the following: (1) Model Selection, (2) Source Treatment, (3) Meteorological Data, and (4) Receptor Grid. Each of these issues is addressed below.

Emission Source Estimates – DPM for Motor Vehicles

DPM emissions from the various sources were calculated using information derived from the project description, and mobile source emission factors from the CARB EMFAC2017 emissions factor model. Truck mix information was obtained from the trip generation via an email provided by Linscott, Law, & Greenspan Engineers, shown in Appendix C.

⁸ In February 2015, the Office of Environmental Health Hazard Assessment updated their "Air Toxics Hot Spots Program, Risk Assessments Guidelines, Guidance Manual for Preparation of Health Risk Assessments; however, the updated OEHHA guidance states in the page footers "do not cite or quote." SCAQMD staff have incorporated the updates into their methodology for SCAQMD's Rules 1401, 1401.1, 1402, and 212, and have updated their HRA Guidance for permitting; however, they are still in the process of updating the guidance for CEQA analyses (via working group sessions); however, to be conservative, the new OEHHA guidance was used to assess HRA impacts in this analysis.

Four pieces of information are required to generate the mobile source emissions from the proposed project:

- Number of vehicle trips for each component of the proposed project;
- Types of vehicles that access the proposed project (passenger car vs. heavy-duty truck and gasoline vs. diesel);
- The allocation of the vehicle trips to each building that comprises the proposed project; and
- Estimate of the vehicle emission factors for estimating exhaust and idling emissions.

Estimate of Vehicle Trips and Vehicle Types

The provided trip generation information showed the project is expected to generate approximately 4,881 (non-passenger car equivalents) vehicle trips per day. Of those vehicle trips, 132 are 4+-axle truck round trips per day (non-passenger car equivalents).⁹

Estimate of Emission Factors

The DPM emission factors for the various vehicle types were derived from the CARB EMFAC2017 mobile source emission model. The emissions factors were derived for San Diego County. Third trimester exposure used opening year (2023) emissions factors, 2-year factors (for infant exposure) reflect years 2023 and 2024, 14-year average factors (for child exposure during years 2-16) reflect emissions during the first 14 years of operation (2025 to 2038), the second 14 years of exposure (years 2039-2052) were used for assessment of exposure during years 16 to 30.

Emissions factors were estimated to establish the emissions generated while the vehicles travel off-site, along travel links from the entrance to the loading docks, and while idling at the loading dock during loading or unloading materials. All vehicles were assumed to travel on-site at a speed of 10 miles per hour. Off-site, the speeds along the roads were anticipated to average 35 miles per hour. Delivery vehicles were assumed to idle for a maximum of 15 minutes per vehicle per day (5 minutes per location: at loading and truck parking areas), in keeping with the CARB Air Toxic Control Measure (ATCM), which regulates truck idling time (CARB 2005). The four different sets of emissions factors used in this assessment are detailed in Table 15. It should be noted that the DPM emissions on both the gram per mile and gram per idle hour bases decline beyond 2023 for all vehicle classes and in particular the heavy-heavy-duty truck class (the 4+ axle “big rig” trucks). This is due to the CARB emissions’ requirements on heavy-duty trucks that call for either the replacement of older trucks with cleaner trucks or the installation of diesel particulate matter filters on the truck fleet.

⁹ Trip Generation Table and email from Linscott, Law & Greenspan, Engineers are provided in Appendix C. As the 132 trucks were identified as larger truck-trailers, to be conservative, all 132 truck trips were assumed to be heavy-heavy duty trucks in the HRA modeling.

Emission Source Characterization

Each of the emission source types described above also requires geometrical and emission release specifications for use in the air dispersion model. Table 15 provides a summary of the assumptions used to configure the various emission sources. The following definitions are used to characterize the emission source geometrical configurations referred to in Table 15:

- Point source: A single, identifiable, local source of emissions; it is approximated in the AERMOD air dispersion model as a mathematical point in the modeling region with a location and emission characteristics such as height of release, temperature, etc., for example, a truck idle location where emissions are sourced from the truck's exhaust stack while the vehicle is stationary.
- Line source: A series of volume sources along a path, for example, vehicular traffic volumes along a roadway.

Exhibit C provides the location of the project buildings, emission source locations, and the locations of the nearest sensitive receptors (single-family detached residential dwelling units located adjacent to the project's western property line, to the north of the project, and along Main Street and the 805 Freeway on-ramps). Residential receptors are shown as orange triangles labeled 1 through 10. The direction of on-site and off-site truck travel were obtained from either the site plan and/or based on City truck routes and location of nearest freeways.

Table 15: DPM Emissions Factors¹

Vehicle Class	14-Year Average (First 14 years of Operation - 2025-2038)		
	Idling (g/hr)	On-Site Travel (g/mi)	Off-Site Travel (g/mi)
Light Heavy Duty Truck 2	0.19651	0.03328	0.01504
Medium Heavy Duty Truck	0.03054	0.00525	0.00375
Heavy Heavy Duty Truck	0.06543	0.01159	0.00885

Vehicle Class	14-Year Average (Second 14 years of Operation - 2039-2052)		
	Idling (g/hr)	On-Site Travel (g/mi)	Off-Site Travel (g/mi)
Light Heavy Duty Truck 2	0.15465	0.02840	0.01416
Medium Heavy Duty Truck	0.02499	0.00433	0.00361
Heavy Heavy Duty Truck	0.05351	0.00955	0.00796

Vehicle Class	2-Year Average (2023-2024)		
	Idling (g/hr)	On-Site Travel (g/mi)	Off-Site Travel (g/mi)
Light Heavy Duty Truck 2	0.27215	0.04243	0.01700
Medium Heavy Duty Truck	0.04108	0.00697	0.00392
Heavy Heavy Duty Truck	0.08755	0.01505	0.01020

Vehicle Class	1-Year Average (Opening Year-2022)		
	Idling (g/hr)	On-Site Travel (g/mi)	Off-Site Travel (g/mi)
Light Heavy Duty Truck 2	0.29932	0.04582	0.01781
Medium Heavy Duty Truck	0.31208	0.05278	0.02937
Heavy Heavy Duty Truck	0.30984	0.04653	0.02200

¹ Source: EMFAC2017.

8.1.2 Receptor Network

The assessment requires that a network of receptors be specified where the impacts can be computed at the various locations surrounding the project. Discrete receptors were located at existing sensitive residential receptors surrounding the proposed project (as detailed above). Discrete receptors are identified as orange triangles and numbered 1 through 10. In addition, the identified sensitive receptor's locations were supplemented by the specification of a modeling grid that extended around the proposed project to identify other potential locations of impact. See Exhibit C for details.

8.1.3 Dispersion Modeling

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

Model Selection

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

General Model Assumptions

A summary of Emission Configurations is shown in Table 15. The basic options used in the dispersion modeling are summarized in Table 17.

As indicated in Table 16 the analysis takes into account the effects of building downwash on the dispersion of emissions from the various sources located on the project's property. Building downwash occurs when the aerodynamic turbulence, induced by nearby buildings, causes pollutants emitted from an elevated source to be mixed rapidly toward the ground (downwash), resulting in potentially higher

ground-level concentrations than if the buildings were not present. The AERMOD dispersion model contains algorithms to account for building downwash effects. The required information includes the location of the emission source; the location of adjacent buildings; and the building geometry in terms of length, width, and height. For purposes of this analysis, the emission source and building locations were taken from the project site plan. The proposed building geometries were estimated from the project plans, assuming a building height of 40 feet.

Table 16: Summary of Emission Configurations

Emission Source Type	Geometric Configuration	Relevant Assumptions
Off-Site Diesel Truck Traffic	Line Sources	Stack release height: 12 feet
		Vehicle speed: 35 mph
		Length of the line source (Shinohara Ln from project driveway to Brandywine Ave, Brandywine Ave from Shinohara Ln to Main St, Main Street from Brandywine Ave to 805 Fwy, 805 Fwy NB Ramp, & 805 Freeway SB Ramp)
		Vehicle types: heavy-heavy-duty diesel delivery trucks
		Emission factor: CARB EMFAC2017
On-Site Diesel Truck Traffic	Line Sources	Stack release height: 12 feet
		Vehicle speed: 10 mph
		Length of the line source (distance from the facility entrance to the loading docks)
		Vehicle types: heavy-heavy-duty diesel delivery trucks
		Emission factor: CARB EMFAC2017
On-Site Diesel Truck Idling	Point Sources located at the loading dock	Stack release height: 12 feet
		Stack release characteristics
		> Stack diameter: 0.1 meter (0.3 feet)
		> Stack velocity: 51.9 mps (170 feet/sec)
		> Stack temperature: 366 °k (200° F)
		Idle time: 15 minutes per truck per day
		Vehicle types: heavy-heavy-duty diesel delivery trucks
Emission factor: CARB EMFAC2017		

Table 17: General Modeling Assumptions – AERMOD Model

Feature	Option Selected
Terrain processing	AERMAP-generated NED GEOTIFF 30 m
Regulatory dispersion options	See Table 15
Land use	Rural
Coordinate system	UTM Zone 11 North
Building downwash	Included in calculations
Receptor height	0 meters above ground (per OEHHA methodology)
Meteorological data	SDAPCD Brown Field Municipal Airport Meteorological Data

Meteorological Data

Meteorological data from the Brown Field Municipal Airport station was selected for this modeling application.¹⁰ The meteorological input files were processed using AERMET program from Lakes Environmental. They are developed based on the five years data sets covering 1/1/2009 to 1/2/2014 (Exhibit D shows a Wind Rose for Brown Field Municipal Airport).

8.1.4 Estimation of Health Risks

Health risks from diesel particulate matter are twofold. First, diesel particulate matter is a carcinogen according to the State of California. Second, long-term chronic exposure to diesel particulate matter can cause health effects to the respiratory system. Each of these health risks is discussed below. Health risk calculations were based on the most-recent Office of Environmental Health Hazard Assessment guidance as detailed below.

¹⁰ Source: <https://ww2.arb.ca.gov/resources/documents/harp-aermod-meteorological-files>

Exhibit C

AERMOD Model Source and Receptor Placement



Cancer Risks

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

$$[\text{Dose-air (mg)/(Kg-day)}] * \text{Cancer Potency} * [1 \times 10^{-6}] = \text{Potential Cancer Risk}$$

Where:

Cancer Potency Factor = 1.1

$$\text{Dose-inh} = (\text{C-air} * \text{DBR} * \text{A} * \text{EF} * \text{ED} * \text{ASF} * \text{FAH} * 10^{-6}) / \text{AT}$$

Where:

DBR [Daily breathing rate (L/kg body weight – day)] = 261 for adults, 572 for children, and 1,090 for infants, and 361 for 3rd trimester per OEHHA guidance.

A [Inhalation absorption factor] = 1

EF [Exposure frequency (days/year)] = 350

ED [Exposure duration (years)] = 30 for adults (for an individual who is an adult at opening year), 14 for children (from 2-16 years), 14 for adults (from 16-30 years), 2 for infants, and 1 for 3rd Trimester

ASF [Age sensitivity factor] = 10 for 3rd trimester to 2 years of age, 3 for 2 to 16 years of age, and 1 for 16 to 30 years of age

FAH [Fraction of time spent at home] = 1 for 3rd trimester to 2 years of age, 1 for 2 to 16 years of age, and 0.73 for 16 to 30 years of age

10^6 [Micrograms to milligrams conversion]

AT [Average time period over which exposure is averaged in days] = 25,550

The model run results are shown in Appendix C. Exhibit E illustrates the cancer risk to the most affected age-group, infants (0-2 years).

Table 18 show the cancer risk for the unborn child during the 3rd trimester, Table 19 shows the cancer risk to infants (0-2 years), Table 20 shows the cancer risk to children ages 2 to 16 years and Table 21 shows the cancer risk as that child becomes an adult (years 16-30). The highest cancer risk corresponds to infants (0-2 years) (see Table 19), and is at receptor 5, with a maximum risk of 0.51 in one million. The highest child cancer risk 2-16 years is also at receptor 5; with a maximum risk of 0.48 in one million. Therefore, no children or infants are exposed to cancer risks in excess of 10 in a million.

<Table 18, 19, 20, & 21 next page>

Table 18: Carcinogenic Risks and Non-Carcinogenic 3rd Trimester Exposure Scenario (0.25-years) - 2022

Receptor ID (a)	Maximum Concentration		Weight Fraction (d)	Contaminant (e)	Carcinogenic Hazards		Noncarcinogenic Hazards		
	(ug/m3) (b)	(mg/m3) (c)			CPF (mg/kg/day) (f)	RISK (per million) (g)	REL (ug/m3) (h)	RfD (mg/kg/day) (i)	Index (j)
1	0.0019	1.9E-06	1.00E+00	DPM	1.1E+00	0.03	5.0E+00	1.4E-03	0.0004
2	0.0035	3.5E-06	1.00E+00	DPM	1.1E+00	0.05	5.0E+00	1.4E-03	0.0007
3	0.0035	3.5E-06	1.00E+00	DPM	1.1E+00	0.05	5.0E+00	1.4E-03	0.0007
4	0.002	2.0E-06	1.00E+00	DPM	1.1E+00	0.03	5.0E+00	1.4E-03	0.0004
5	0.0034	3.4E-06	1.00E+00	DPM	1.1E+00	0.05	5.0E+00	1.4E-03	0.0007
6	0.0029	2.9E-06	1.00E+00	DPM	1.1E+00	0.04	5.0E+00	1.4E-03	0.0006
7	0.0025	2.5E-06	1.00E+00	DPM	1.1E+00	0.03	5.0E+00	1.4E-03	0.0005
8	0.0011	1.1E-06	1.00E+00	DPM	1.1E+00	0.01	5.0E+00	1.4E-03	0.0002
9	0.0007	6.9E-07	1.00E+00	DPM	1.1E+00	0.01	5.0E+00	1.4E-03	0.0001
10	0.0007	6.7E-07	1.00E+00	DPM	1.1E+00	0.01	5.0E+00	1.4E-03	0.0001

Note: OEHHA 95th percentile exposure factors used to calculate TAC intake:

Exposure Frequency (days/year)	350
Exposure Duration (years)	0.25
Daily Breathing Rate	361
Age Sensitivity Factor	10
Fraction of Time At Home (FAH)	1
Averaging Time _(cancer) (days)	25550
Averaging Time _(non-cancer) (days)	91.25
E= 10 ^x , i.e. E-02 = 10 ⁻²	

Table 19: Carcinogenic Risks and Non-Carcinogenic Infant Exposure Scenario (2-year) – 2023-2024

Receptor ID (a)	Maximum Concentration		Weight Fraction (d)	Contaminant (e)	Carcinogenic Hazards		Noncarcinogenic Hazards		
	(ug/m3) (b)	(mg/m3) (c)			CPF (mg/kg/day) (f)	RISK (per million) (g)	REL (ug/m3) (h)	RfD (mg/kg/day) (i)	Index (j)
1	0.0006	5.5E-07	1.00E+00	DPM	1.1E+00	0.18	5.0E+00	1.4E-03	0.0001
2	0.001	1.0E-06	1.00E+00	DPM	1.1E+00	0.34	5.0E+00	1.4E-03	0.0002
3	0.001	1.0E-06	1.00E+00	DPM	1.1E+00	0.34	5.0E+00	1.4E-03	0.0002
4	0.0007	6.6E-07	1.00E+00	DPM	1.1E+00	0.22	5.0E+00	1.4E-03	0.0001
5	0.0015	1.5E-06	1.00E+00	DPM	1.1E+00	0.51	5.0E+00	1.4E-03	0.0003
6	0.0013	1.3E-06	1.00E+00	DPM	1.1E+00	0.42	5.0E+00	1.4E-03	0.0003
7	0.0011	1.1E-06	1.00E+00	DPM	1.1E+00	0.35	5.0E+00	1.4E-03	0.0002
8	0.0004	4.0E-07	1.00E+00	DPM	1.1E+00	0.13	5.0E+00	1.4E-03	0.0001
9	0.0002	2.1E-07	1.00E+00	DPM	1.1E+00	0.07	5.0E+00	1.4E-03	0.0000
10	0.0003	2.9E-07	1.00E+00	DPM	1.1E+00	0.10	5.0E+00	1.4E-03	0.0001

Note: OEHHA 95th percentile exposure factors used to calculate TAC intake:

Exposure Frequency (days/year)	350
Exposure Duration (years)	2.00
Daily Breathing Rate	1090
Age Sensitivity Factor	10
Fraction of Time At Home (FAH)	1
Averaging Time _(cancer) (days)	25550
Averaging Time _(non-cancer) (days)	730
E = 10 ^x , i.e. E-02 = 10 ⁻²	

Table 20: Carcinogenic Risks and Non-Carcinogenic Child Exposure Scenario – 2025-2038

Receptor ID (a)	Maximum Concentration		Weight Fraction (d)	Contaminant (e)	Carcinogenic Hazards		Noncarcinogenic Hazards		
	(ug/m3) (b)	(mg/m3) (c)			CPF (mg/kg/day) (f)	RISK (per million) (g)	REL (ug/m3) (h)	RfD (mg/kg/day) (i)	Index (j)
1	0.00042	4.2E-07	1.00E+00	DPM	1.1E+00	0.15	5.0E+00	1.4E-03	0.0001
2	0.00079	7.9E-07	1.00E+00	DPM	1.1E+00	0.29	5.0E+00	1.4E-03	0.0002
3	0.00079	7.9E-07	1.00E+00	DPM	1.1E+00	0.29	5.0E+00	1.4E-03	0.0002
4	0.00052	5.2E-07	1.00E+00	DPM	1.1E+00	0.19	5.0E+00	1.4E-03	0.0001
5	0.00133	1.3E-06	1.00E+00	DPM	1.1E+00	0.48	5.0E+00	1.4E-03	0.0003
6	0.00109	1.1E-06	1.00E+00	DPM	1.1E+00	0.39	5.0E+00	1.4E-03	0.0002
7	0.00091	9.1E-07	1.00E+00	DPM	1.1E+00	0.33	5.0E+00	1.4E-03	0.0002
8	0.00033	3.3E-07	1.00E+00	DPM	1.1E+00	0.12	5.0E+00	1.4E-03	0.0001
9	0.00016	1.6E-07	1.00E+00	DPM	1.1E+00	0.06	5.0E+00	1.4E-03	0.0000
10	0.00025	2.5E-07	1.00E+00	DPM	1.1E+00	0.09	5.0E+00	1.4E-03	0.0001

Note: OEHHHA 95th percentile exposure factors used to calculate TAC intake:

Exposure Frequency (days/year)	350
Exposure Duration (years)	14
Daily Breathing Rate	572
Age Sensitivity Factor	3
Fraction of Time At Home (FAH)	1
Averaging Time _(cancer) (days)	25550
Averaging Time _(non-cancer) (days)	5110
E= 10 ^x , i.e. E-02 = 10 ⁻²	

Table 21: Carcinogenic Risks and Non-Carcinogenic Adult Exposure Scenario (16-30 years) – 2039-2052

Receptor ID (a)	Maximum Concentration		Weight Fraction (d)	Contaminant (e)	Carcinogenic Hazards		Noncarcinogenic Hazards		
	(ug/m3) (b)	(mg/m3) (c)			CPF (mg/kg/day) (f)	RISK (per million) (g)	REL (ug/m3) (h)	RfD (mg/kg/day) (i)	Index (j)
1	0.00034	3.4E-07	1.00E+00	DPM	1.1E+00	0.01	5.0E+00	1.4E-03	0.0001
2	0.00065	6.5E-07	1.00E+00	DPM	1.1E+00	0.03	5.0E+00	1.4E-03	0.0001
3	0.00065	6.5E-07	1.00E+00	DPM	1.1E+00	0.03	5.0E+00	1.4E-03	0.0001
4	0.00044	4.4E-07	1.00E+00	DPM	1.1E+00	0.02	5.0E+00	1.4E-03	0.0001
5	0.0012	1.2E-06	1.00E+00	DPM	1.1E+00	0.05	5.0E+00	1.4E-03	0.0002
6	0.00098	9.8E-07	1.00E+00	DPM	1.1E+00	0.04	5.0E+00	1.4E-03	0.0002
7	0.00081	8.1E-07	1.00E+00	DPM	1.1E+00	0.03	5.0E+00	1.4E-03	0.0002
8	0.00029	2.9E-07	1.00E+00	DPM	1.1E+00	0.01	5.0E+00	1.4E-03	0.0001
9	0.00013	1.3E-07	1.00E+00	DPM	1.1E+00	0.01	5.0E+00	1.4E-03	0.0000
10	0.00022	2.2E-07	1.00E+00	DPM	1.1E+00	0.01	5.0E+00	1.4E-03	0.0000

Note: OEHHA 95th percentile exposure factors used to calculate TAC intake:

Exposure Frequency (days/year)	350
Exposure Duration (years)	14
Daily Breathing Rate	261
Age Sensitivity Factor	1
Fraction of Time At Home (FAH)	0.73
Averaging Time _(cancer) (days)	25550
Averaging Time _(non-cancer) (days)	5110
E= 10 ^X , i.e. E-02 = 10 ⁻²	

Estimated cancer risk was based on a conservative maximum duration that a long-term resident might live on the property, i.e. 30 years. Based on these conservative assumptions, the 30.25-year, cumulative carcinogenic health risk (3rd trimester [-0.25 to 0 years] + infant [0-2 years] + child [2-16 years] + adult [16-30 years]) to an individual born during the opening year of the project, and located in the project vicinity for the entire 30-year duration, is a maximum of 1.08 in a million at receptor location 5, as shown in Table 22.

Table 22: Cumulative Carcinogenic Risk 30.25-Year Exposure Scenario

Receptor ID	Cumulative RISK (per million)
1	0.37
2	0.70
3	0.70
4	0.45
5	1.08
6	0.89
7	0.74
8	0.28
9	0.14
10	0.20

Therefore, as the residential cancer risk does not exceed 10 in a million, the on-going operations of the proposed project would result in a less than significant impact due to the cancer risk from diesel emissions created by the proposed project.

Non-Cancer Risks

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

$$HIDPM = CDPM/RELDPM$$

Where,

HIDPM = Hazard Index; an expression of the potential for non-cancer health effects.

CDPM = Annual average diesel particulate matter concentration in $\mu\text{g}/\text{m}^3$.

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

The non-carcinogenic hazards to adult, child and infant receptors are also detailed in Tables 18 through 21 column (j). The RELDPM is $5 \mu\text{g}/\text{m}^3$. The Office of Environmental Health Hazard Assessment as protective for the respiratory system has established this concentration. Using the maximum DPM concentration from years 2022-2052, the resulting Hazard Index is:

$$\text{HIDPM} = 0.0035/5 = 0.0007$$

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

Exhibit D

Wind Rose – Brown Field Municipal Airport

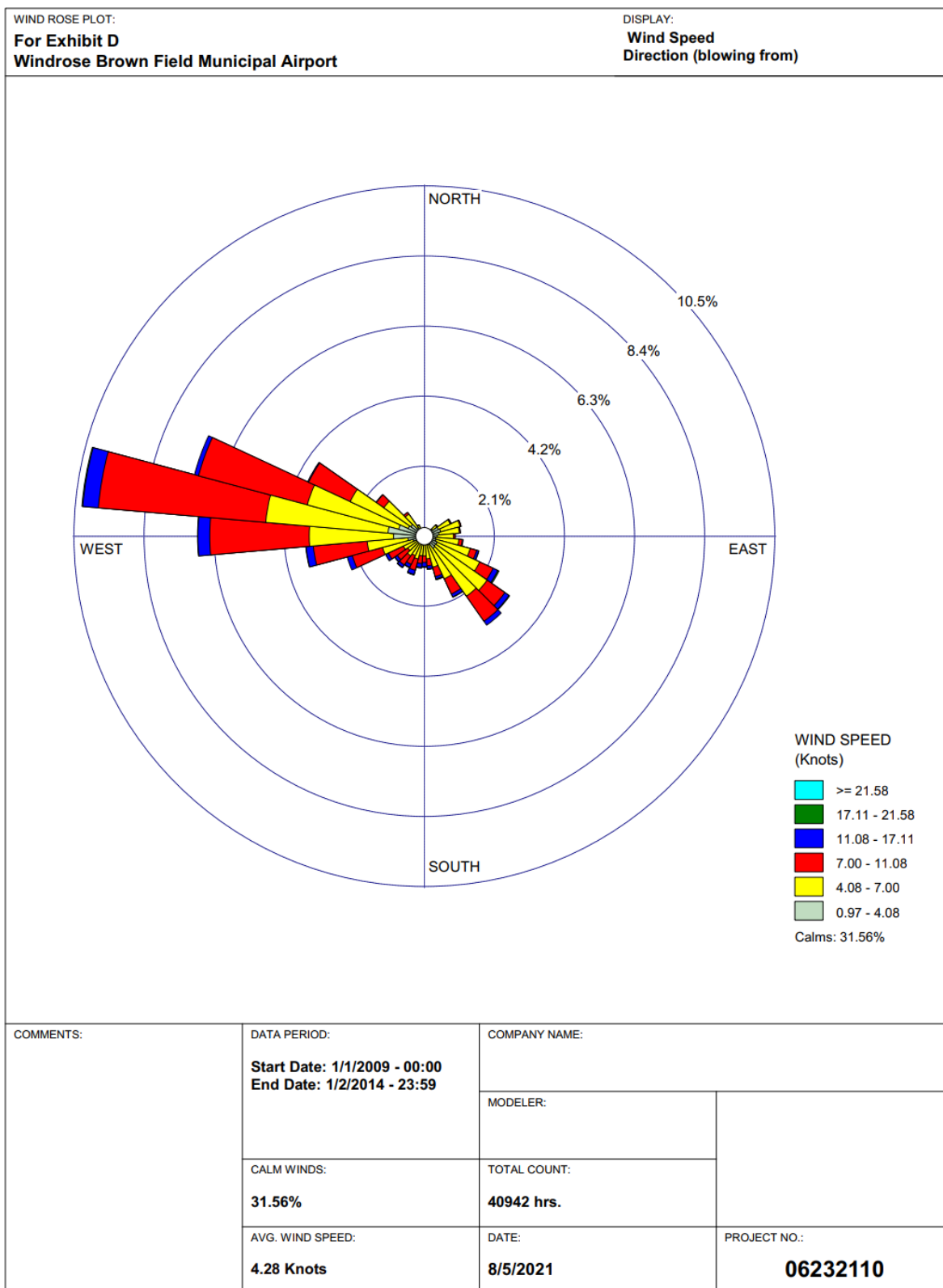
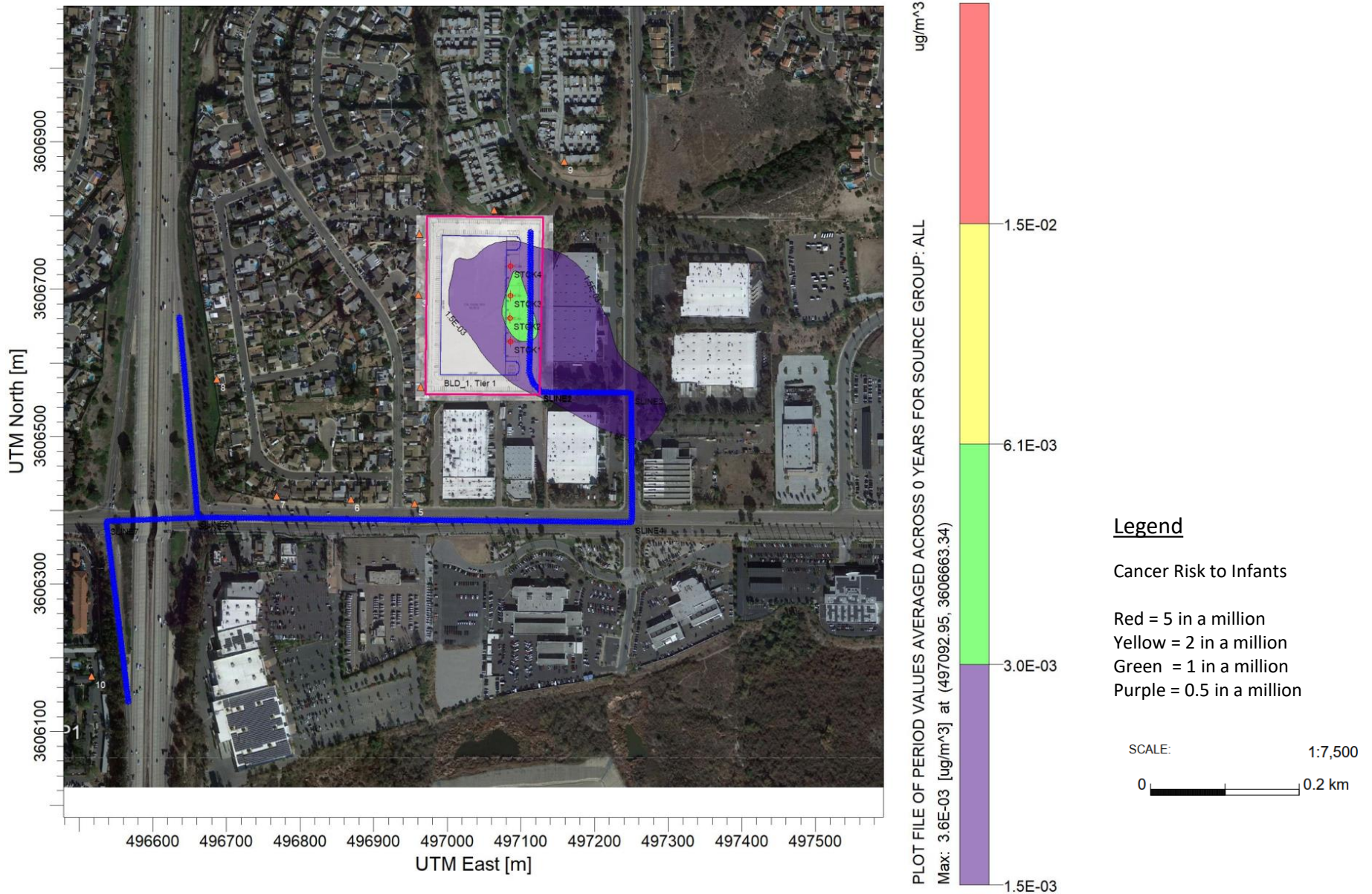


Exhibit E

Unmitigated Annual DPM Emissions – Infants 2023 - 2024



9.0 References

The following references were used in the preparing this analysis.

Association of Environmental Professionals (AEP)

2016 Final White Paper – Beyond 2020 and Newhall. October 18.

California Air Pollution Control Officers Association

2009 Health Risk Assessments for Proposed Land Use Projects

California Air Resources Board

2005 Air Quality and Land Use Handbook: A Community Health Perspective. April.

2008 Resolution 08-43

2008 Recommended Approaches for Setting Interim Significance Thresholds for Greenhouse Gases under the California Environmental Quality Act

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

2008 Climate Change Scoping Plan, a framework for change.

2011 Supplement to the AB 32 Scoping Plan Functional Equivalent Document

2013 Revised Emission Factors for Gasoline Marketing Operations at California Gasoline Dispensing Facilities

2014 First Update to the Climate Change Scoping Plan, Building on the Framework Pursuant to AB32, the California Global Warming Solutions Act of 2006. May.

2017 The 2017 Climate Change Scoping Plan, The Strategy for Achieving California’s 2030 Greenhouse Gas Target, Draft. October 27, 2017.

2021 Historical Air Quality, Top 4 Summary

City of Chula Vista

2000 Chula Vista CO2 Reduction Plan. Adopted November 14, 2000.

2008 Climate Change Working Group Measures Implementation Plan. July 2008.

2011 Climate Adaptation Strategies Implementation Plans. May 2011.

- 2012 A Final Supplemental Environmental Impact Report for Amendments to the City of Chula Vista General Plan (GPA-09-01) and Otay Ranch General Development Plan (PCM-09-11). December.
- 2014 2012 Greenhouse Gas Inventory.
- 2017 Chula Vista Climate Action Plan. Adopted September 2017.
- 2018 2014 Community Greenhouse Gas Emissions Inventory. Adopted September 2018.

Governor’s Office of Planning and Research

- 2008 CEQA and Climate: Addressing Climate Change Through California Environmental Quality Act (CEQA) Review
- 2009 CEQA Guideline Sections to be Added or Amended

Intergovernmental Panel on Climate Change (IPCC)

- 2014 Fifth Assessment Report (AR5), Climate Change 2014: Synthesis Report.

Office of Environmental Health Hazard Assessment

- 2015 Air Toxics Hot Spots Program Risk Assessment Guidelines

South Coast Air Quality Management District (SCAQMD)

- 2008 Draft Guidance Document – Interim CEQA Greenhouse Gas (GHG) Significance Threshold. October 2008.
- 2009 Greenhouse Gas CEQA Significance Threshold Stakeholder Working Group 14. November 19, 2009.
- 2019 South Coast AQMD Air Quality Significance Thresholds. April.

San Diego County

- 2007 County of San Diego Guidelines for Determining Significance and Report Format and Content Requirements: Air Quality. March 19.
- 2018 County of San Diego Guidelines for Determining Significance Climate change. January 2018.

San Diego Association of Governments (SANDAG)

- 2015 SANDAG Data Surfer. <http://datasurfer.sandag.org/>
- 2016 2016 Regional Transportation Improvement Program
- 2021 2021 Regional Plan. <https://sdforward.com/mobility-planning/2021-regional-plan>.

San Diego Air Pollution Control District

- 2017 Annual Air Quality Monitoring Network Plan 2016. June 30.

2020 "Attainment Status" <https://www.sandiegocounty.gov/content/sdc/apcd/en/air-quality-planning/attainment-status.html>

Linscott, Law & Greenspan, Engineers

2022 Local Mobility Analysis – Chula Vista Shinohara. February 17.

Appendix A:

CalEEMod Output

Shinohara Industrial Project Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

1.2. Land Use Types

1.3. User-Selected Emission Reduction Measures by Emissions Sector

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

2.2. Construction Emissions by Year, Unmitigated

2.3. Construction Emissions by Year, Mitigated

2.4. Operations Emissions Compared Against Thresholds

2.5. Operations Emissions by Sector, Unmitigated

2.6. Operations Emissions by Sector, Mitigated

3. Construction Emissions Details

3.1. Grading (2023) - Unmitigated

3.2. Grading (2023) - Mitigated

3.3. Building Construction (2023) - Unmitigated

3.4. Building Construction (2023) - Mitigated

3.5. Building Construction (2024) - Unmitigated

3.6. Building Construction (2024) - Mitigated

3.7. Paving (2024) - Unmitigated

3.8. Paving (2024) - Mitigated

3.9. Architectural Coating (2024) - Unmitigated

3.10. Architectural Coating (2024) - Mitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.1.2. Mitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.2. Electricity Emissions By Land Use - Mitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.2.4. Natural Gas Emissions By Land Use - Mitigated

4.3. Area Emissions by Source

4.3.2. Unmitigated

4.3.1. Mitigated

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

4.4.1. Mitigated

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

4.5.1. Mitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.6.2. Mitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.7.2. Mitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.8.2. Mitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.9.2. Mitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.2.2. Mitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.3.2. Mitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.9.2. Mitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.10.4. Landscape Equipment - Mitigated

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.11.2. Mitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.12.2. Mitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.13.2. Mitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.14.2. Mitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Shinohara Industrial Project
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	19.4
Location	517 Shinohara Ln, Chula Vista, CA 91911, USA
County	San Diego
City	Chula Vista
Air District	San Diego County APCD
Air Basin	San Diego
TAZ	6644
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	San Diego Gas & Electric

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
Unrefrigerated Warehouse-No Rail	178	1000sqft	4.09	178,160	0.00	—	—	—
Other Non-Asphalt Surfaces	1.70	Acre	1.70	0.00	64,130	—	—	—

Parking Lot	200	Space	3.93	0.00	0.00	—	—	—
-------------	-----	-------	------	------	------	---	---	---

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-2*	Limit Heavy-Duty Diesel Vehicle Idling
Construction	C-10-A	Water Exposed Surfaces
Construction	C-11	Limit Vehicle Speeds on Unpaved Roads
Waste	S-1/S-2	Implement Waste Reduction Plan

* Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

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.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	32.1	22.3	21.3	0.05	0.97	7.63	8.60	0.90	3.57	4.47	—	4,772	4,772	0.22	0.29	5.04	4,869
Mit.	32.1	22.3	21.3	0.05	0.97	3.31	4.28	0.90	1.48	2.38	—	4,772	4,772	0.22	0.29	5.04	4,869
% Reduced	—	—	—	—	—	57%	50%	—	59%	47%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.14	22.4	21.2	0.05	0.97	7.63	8.60	0.90	3.57	4.47	—	4,764	4,764	0.22	0.29	0.13	4,857
Mit.	2.14	22.4	21.2	0.05	0.97	3.31	4.28	0.90	1.48	2.38	—	4,764	4,764	0.22	0.29	0.13	4,857
% Reduced	—	—	—	—	—	57%	50%	—	59%	47%	—	—	—	—	—	—	—

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.10	8.65	10.6	0.02	0.37	1.01	1.38	0.34	0.38	0.72	—	2,387	2,387	0.10	0.10	1.28	2,422
Mit.	3.10	8.65	10.6	0.02	0.37	0.68	1.05	0.34	0.22	0.56	—	2,387	2,387	0.10	0.10	1.28	2,422
% Reduced	—	—	—	—	—	33%	24%	—	42%	22%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.57	1.58	1.94	< 0.005	0.07	0.18	0.25	0.06	0.07	0.13	—	395	395	0.02	0.02	0.21	401
Mit.	0.57	1.58	1.94	< 0.005	0.07	0.12	0.19	0.06	0.04	0.10	—	395	395	0.02	0.02	0.21	401
% Reduced	—	—	—	—	—	33%	24%	—	42%	22%	—	—	—	—	—	—	—
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	75.0	100	550	150	—	—	150	—	—	55.0	—	—	—	—	—	—	—
Unmit.	No	No	No	No	Yes	—	No	Yes	—	No	—	—	—	—	—	—	—
Mit.	No	No	No	No	Yes	—	No	Yes	—	No	—	—	—	—	—	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	75.0	100	550	150	—	—	150	—	—	55.0	—	—	—	—	—	—	—
Unmit.	No	No	No	No	Yes	—	No	Yes	—	No	—	—	—	—	—	—	—
Mit.	No	No	No	No	Yes	—	No	Yes	—	No	—	—	—	—	—	—	—
Exceeds (Annual)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	Yes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Yes
Mit.	Yes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Yes

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	2.14	22.3	21.3	0.05	0.97	7.63	8.60	0.90	3.57	4.47	—	4,772	4,772	0.22	0.29	5.04	4,869
2024	32.1	12.5	17.3	0.03	0.51	0.82	1.33	0.47	0.20	0.67	—	3,865	3,865	0.16	0.15	4.82	3,919
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	2.14	22.4	21.2	0.05	0.97	7.63	8.60	0.90	3.57	4.47	—	4,764	4,764	0.22	0.29	0.13	4,857
2024	1.54	12.6	16.8	0.03	0.51	0.82	1.33	0.47	0.20	0.67	—	3,825	3,825	0.17	0.15	0.12	3,874
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	1.00	8.65	10.6	0.02	0.37	1.01	1.38	0.34	0.38	0.72	—	2,387	2,387	0.10	0.10	1.28	2,422
2024	3.10	5.14	6.89	0.01	0.21	0.31	0.53	0.19	0.08	0.27	—	1,537	1,537	0.07	0.06	0.81	1,558
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.18	1.58	1.94	< 0.005	0.07	0.18	0.25	0.06	0.07	0.13	—	395	395	0.02	0.02	0.21	401
2024	0.57	0.94	1.26	< 0.005	0.04	0.06	0.10	0.04	0.01	0.05	—	254	254	0.01	0.01	0.13	258

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	2.14	22.3	21.3	0.05	0.97	3.31	4.28	0.90	1.48	2.38	—	4,772	4,772	0.22	0.29	5.04	4,869
2024	32.1	12.5	17.3	0.03	0.51	0.82	1.33	0.47	0.20	0.67	—	3,865	3,865	0.16	0.15	4.82	3,919

Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	2.14	22.4	21.2	0.05	0.97	3.31	4.28	0.90	1.48	2.38	—	4,764	4,764	0.22	0.29	0.13	4,857
2024	1.54	12.6	16.8	0.03	0.51	0.82	1.33	0.47	0.20	0.67	—	3,825	3,825	0.17	0.15	0.12	3,874
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	1.00	8.65	10.6	0.02	0.37	0.68	1.05	0.34	0.22	0.56	—	2,387	2,387	0.10	0.10	1.28	2,422
2024	3.10	5.14	6.89	0.01	0.21	0.31	0.53	0.19	0.08	0.27	—	1,537	1,537	0.07	0.06	0.81	1,558
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.18	1.58	1.94	< 0.005	0.07	0.12	0.19	0.06	0.04	0.10	—	395	395	0.02	0.02	0.21	401
2024	0.57	0.94	1.26	< 0.005	0.04	0.06	0.10	0.04	0.01	0.05	—	254	254	0.01	0.01	0.13	258

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.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	25.8	36.8	148	0.46	0.60	11.7	12.3	0.57	2.23	2.80	169	50,336	50,506	19.8	4.31	4,901	57,186
Mit.	25.8	36.8	148	0.46	0.60	11.7	12.3	0.57	2.23	2.80	102	50,336	50,438	13.0	4.31	4,901	56,949
% Reduced	—	—	—	—	—	—	—	—	—	—	40%	—	< 0.5%	34%	—	—	< 0.5%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	24.0	38.8	134	0.45	0.59	11.7	12.3	0.56	2.23	2.79	169	49,010	49,180	19.9	4.39	4,752	55,737
Mit.	24.0	38.8	134	0.45	0.59	11.7	12.3	0.56	2.23	2.79	102	49,010	49,112	13.2	4.39	4,752	55,500
% Reduced	—	—	—	—	—	—	—	—	—	—	40%	—	< 0.5%	34%	—	—	< 0.5%

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	24.4	38.7	137	0.45	0.59	11.7	12.3	0.57	2.23	2.80	169	49,220	49,389	19.9	4.37	4,814	56,003
Mit.	24.4	38.7	137	0.45	0.59	11.7	12.3	0.57	2.23	2.80	102	49,220	49,321	13.1	4.37	4,814	55,767
% Reduced	—	—	—	—	—	—	—	—	—	—	40%	—	< 0.5%	34%	—	—	< 0.5%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.45	7.06	25.1	0.08	0.11	2.14	2.25	0.10	0.41	0.51	28.0	8,149	8,177	3.29	0.72	797	9,272
Mit.	4.45	7.06	25.1	0.08	0.11	2.14	2.25	0.10	0.41	0.51	16.8	8,149	8,166	2.17	0.72	797	9,233
% Reduced	—	—	—	—	—	—	—	—	—	—	40%	—	< 0.5%	34%	—	—	< 0.5%
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	55.0	55.0	550	150	—	—	150	—	—	55.0	—	—	—	—	—	—	—
Unmit.	No	No	No	No	Yes	—	No	Yes	—	No	—	—	—	—	—	—	—
Mit.	No	No	No	No	Yes	—	No	Yes	—	No	—	—	—	—	—	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	55.0	55.0	550	150	—	—	150	—	—	55.0	—	—	—	—	—	—	—
Unmit.	No	No	No	No	Yes	—	No	Yes	—	No	—	—	—	—	—	—	—
Mit.	No	No	No	No	Yes	—	No	Yes	—	No	—	—	—	—	—	—	—
Exceeds (Annual)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10,000
Unmit.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	No
Mit.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	No

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	20.4	36.0	139	0.45	0.54	11.7	12.3	0.51	2.23	2.74	—	47,511	47,511	2.50	4.10	153	48,949
Area	5.35	0.07	7.75	< 0.005	0.01	—	0.01	0.01	—	0.01	—	31.9	31.9	< 0.005	< 0.005	—	32.0
Energy	0.04	0.70	0.59	< 0.005	0.05	—	0.05	0.05	—	0.05	—	2,333	2,333	0.16	0.01	—	2,340
Water	—	—	—	—	—	—	—	—	—	—	78.9	461	540	8.12	0.20	—	801
Waste	—	—	—	—	—	—	—	—	—	—	90.3	0.00	90.3	9.02	0.00	—	316
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,748	4,748
Total	25.8	36.8	148	0.46	0.60	11.7	12.3	0.57	2.23	2.80	169	50,336	50,506	19.8	4.31	4,901	57,186
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	19.9	38.1	134	0.44	0.54	11.7	12.3	0.51	2.23	2.74	—	46,217	46,217	2.62	4.18	3.98	47,532
Area	4.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.04	0.70	0.59	< 0.005	0.05	—	0.05	0.05	—	0.05	—	2,333	2,333	0.16	0.01	—	2,340
Water	—	—	—	—	—	—	—	—	—	—	78.9	461	540	8.12	0.20	—	801
Waste	—	—	—	—	—	—	—	—	—	—	90.3	0.00	90.3	9.02	0.00	—	316
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,748	4,748
Total	24.0	38.8	134	0.45	0.59	11.7	12.3	0.56	2.23	2.79	169	49,010	49,180	19.9	4.39	4,752	55,737
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	19.6	37.9	133	0.44	0.54	11.7	12.3	0.51	2.23	2.74	—	46,411	46,411	2.59	4.16	66.2	47,783
Area	4.70	0.03	3.82	< 0.005	0.01	—	0.01	0.01	—	0.01	—	15.7	15.7	< 0.005	< 0.005	—	15.8
Energy	0.04	0.70	0.59	< 0.005	0.05	—	0.05	0.05	—	0.05	—	2,333	2,333	0.16	0.01	—	2,340
Water	—	—	—	—	—	—	—	—	—	—	78.9	461	540	8.12	0.20	—	801

Waste	—	—	—	—	—	—	—	—	—	—	90.3	0.00	90.3	9.02	0.00	—	316
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,748	4,748
Total	24.4	38.7	137	0.45	0.59	11.7	12.3	0.57	2.23	2.80	169	49,220	49,389	19.9	4.37	4,814	56,003
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.58	6.93	24.3	0.08	0.10	2.14	2.24	0.09	0.41	0.50	—	7,684	7,684	0.43	0.69	11.0	7,911
Area	0.86	0.01	0.70	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.60	2.60	< 0.005	< 0.005	—	2.61
Energy	0.01	0.13	0.11	< 0.005	0.01	—	0.01	0.01	—	0.01	—	386	386	0.03	< 0.005	—	387
Water	—	—	—	—	—	—	—	—	—	—	13.1	76.3	89.4	1.34	0.03	—	133
Waste	—	—	—	—	—	—	—	—	—	—	14.9	0.00	14.9	1.49	0.00	—	52.3
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	786	786
Total	4.45	7.06	25.1	0.08	0.11	2.14	2.25	0.10	0.41	0.51	28.0	8,149	8,177	3.29	0.72	797	9,272

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	20.4	36.0	139	0.45	0.54	11.7	12.3	0.51	2.23	2.74	—	47,511	47,511	2.50	4.10	153	48,949
Area	5.35	0.07	7.75	< 0.005	0.01	—	0.01	0.01	—	0.01	—	31.9	31.9	< 0.005	< 0.005	—	32.0
Energy	0.04	0.70	0.59	< 0.005	0.05	—	0.05	0.05	—	0.05	—	2,333	2,333	0.16	0.01	—	2,340
Water	—	—	—	—	—	—	—	—	—	—	78.9	461	540	8.12	0.20	—	801
Waste	—	—	—	—	—	—	—	—	—	—	22.6	0.00	22.6	2.26	0.00	—	78.9
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,748	4,748
Total	25.8	36.8	148	0.46	0.60	11.7	12.3	0.57	2.23	2.80	102	50,336	50,438	13.0	4.31	4,901	56,949
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	19.9	38.1	134	0.44	0.54	11.7	12.3	0.51	2.23	2.74	—	46,217	46,217	2.62	4.18	3.98	47,532

Area	4.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.04	0.70	0.59	< 0.005	0.05	—	0.05	0.05	—	0.05	—	2,333	2,333	0.16	0.01	—	2,340
Water	—	—	—	—	—	—	—	—	—	—	78.9	461	540	8.12	0.20	—	801
Waste	—	—	—	—	—	—	—	—	—	—	22.6	0.00	22.6	2.26	0.00	—	78.9
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,748	4,748
Total	24.0	38.8	134	0.45	0.59	11.7	12.3	0.56	2.23	2.79	102	49,010	49,112	13.2	4.39	4,752	55,500
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	19.6	37.9	133	0.44	0.54	11.7	12.3	0.51	2.23	2.74	—	46,411	46,411	2.59	4.16	66.2	47,783
Area	4.70	0.03	3.82	< 0.005	0.01	—	0.01	0.01	—	0.01	—	15.7	15.7	< 0.005	< 0.005	—	15.8
Energy	0.04	0.70	0.59	< 0.005	0.05	—	0.05	0.05	—	0.05	—	2,333	2,333	0.16	0.01	—	2,340
Water	—	—	—	—	—	—	—	—	—	—	78.9	461	540	8.12	0.20	—	801
Waste	—	—	—	—	—	—	—	—	—	—	22.6	0.00	22.6	2.26	0.00	—	78.9
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,748	4,748
Total	24.4	38.7	137	0.45	0.59	11.7	12.3	0.57	2.23	2.80	102	49,220	49,321	13.1	4.37	4,814	55,767
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.58	6.93	24.3	0.08	0.10	2.14	2.24	0.09	0.41	0.50	—	7,684	7,684	0.43	0.69	11.0	7,911
Area	0.86	0.01	0.70	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.60	2.60	< 0.005	< 0.005	—	2.61
Energy	0.01	0.13	0.11	< 0.005	0.01	—	0.01	0.01	—	0.01	—	386	386	0.03	< 0.005	—	387
Water	—	—	—	—	—	—	—	—	—	—	13.1	76.3	89.4	1.34	0.03	—	133
Waste	—	—	—	—	—	—	—	—	—	—	3.74	0.00	3.74	0.37	0.00	—	13.1
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	786	786
Total	4.45	7.06	25.1	0.08	0.11	2.14	2.25	0.10	0.41	0.51	16.8	8,149	8,166	2.17	0.72	797	9,233

3. Construction Emissions Details

3.1. Grading (2023) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.04	20.0	19.7	0.03	0.94	—	0.94	0.87	—	0.87	—	2,958	2,958	0.12	0.02	—	2,968
Dust From Material Movement	—	—	—	—	—	7.09	7.09	—	3.43	3.43	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.04	20.0	19.7	0.03	0.94	—	0.94	0.87	—	0.87	—	2,958	2,958	0.12	0.02	—	2,968
Dust From Material Movement	—	—	—	—	—	7.09	7.09	—	3.43	3.43	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	1.53	1.51	< 0.005	0.07	—	0.07	0.07	—	0.07	—	227	227	0.01	< 0.005	—	228
Dust From Material Movement	—	—	—	—	—	0.54	0.54	—	0.26	0.26	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.28	0.28	< 0.005	0.01	—	0.01	0.01	—	0.01	—	37.6	37.6	< 0.005	< 0.005	—	37.7
Dust From Material Movement	—	—	—	—	—	0.10	0.10	—	0.05	0.05	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.79	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	148	148	0.01	0.01	0.63	150
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.03	2.30	0.79	0.02	0.03	0.12	0.15	0.03	0.04	0.07	—	1,666	1,666	0.09	0.26	3.52	1,750
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.69	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	140	140	0.01	0.01	0.02	141
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.03	2.38	0.80	0.02	0.03	0.12	0.15	0.03	0.04	0.07	—	1,667	1,667	0.09	0.26	0.09	1,747
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	10.8	10.8	< 0.005	< 0.005	0.02	11.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.18	0.06	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	—	128	128	0.01	0.02	0.12	134
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	1.79	1.79	< 0.005	< 0.005	< 0.005	1.81
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.03	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	21.2	21.2	< 0.005	< 0.005	0.02	22.2

3.2. Grading (2023) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.04	20.0	19.7	0.03	0.94	—	0.94	0.87	—	0.87	—	2,958	2,958	0.12	0.02	—	2,968
Dust From Material Movement	—	—	—	—	—	2.77	2.77	—	1.34	1.34	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.04	20.0	19.7	0.03	0.94	—	0.94	0.87	—	0.87	—	2,958	2,958	0.12	0.02	—	2,968
Dust From Material Movement	—	—	—	—	—	2.77	2.77	—	1.34	1.34	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	1.53	1.51	< 0.005	0.07	—	0.07	0.07	—	0.07	—	227	227	0.01	< 0.005	—	228
Dust From Material Movement	—	—	—	—	—	0.21	0.21	—	0.10	0.10	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.28	0.28	< 0.005	0.01	—	0.01	0.01	—	0.01	—	37.6	37.6	< 0.005	< 0.005	—	37.7
Dust From Material Movement	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.79	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	148	148	0.01	0.01	0.63	150
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.03	2.30	0.79	0.02	0.03	0.12	0.15	0.03	0.04	0.07	—	1,666	1,666	0.09	0.26	3.52	1,750
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.69	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	140	140	0.01	0.01	0.02	141
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.03	2.38	0.80	0.02	0.03	0.12	0.15	0.03	0.04	0.07	—	1,667	1,667	0.09	0.26	0.09	1,747
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	10.8	10.8	< 0.005	< 0.005	0.02	11.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.18	0.06	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	—	128	128	0.01	0.02	0.12	134
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	1.79	1.79	< 0.005	< 0.005	< 0.005	1.81
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	< 0.005	0.03	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	21.2	21.2	< 0.005	< 0.005	0.02	22.2
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3.3. Building Construction (2023) - Unmitigated

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

Location	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	1.26	11.8	13.2	0.02	0.55	—	0.55	0.51	—	0.51	—	2,397	2,397	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.26	11.8	13.2	0.02	0.55	—	0.55	0.51	—	0.51	—	2,397	2,397	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.66	6.19	6.91	0.01	0.29	—	0.29	0.27	—	0.27	—	1,257	1,257	0.05	0.01	—	1,262
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	1.13	1.26	< 0.005	0.05	—	0.05	0.05	—	0.05	—	208	208	0.01	< 0.005	—	209
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.33	0.27	3.95	0.00	0.00	0.04	0.04	0.00	0.00	0.00	—	738	738	0.03	0.03	3.13	750
Vendor	0.03	1.08	0.50	< 0.005	0.01	0.04	0.05	0.01	0.01	0.02	—	755	755	0.03	0.11	1.91	790
Hauling	0.00	0.00	0.00	0.00	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	0.32	0.30	3.47	0.00	0.00	0.04	0.04	0.00	0.00	0.00	—	696	696	0.04	0.03	0.08	705
Vendor	0.03	1.11	0.52	< 0.005	0.01	0.04	0.05	0.01	0.01	0.02	—	755	755	0.03	0.11	0.05	788
Hauling	0.00	0.00	0.00	0.00	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	0.16	0.16	1.84	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	369	369	0.02	0.01	0.71	374
Vendor	0.02	0.58	0.27	< 0.005	0.01	0.02	0.03	0.01	0.01	0.01	—	396	396	0.02	0.06	0.43	414
Hauling	0.00	0.00	0.00	0.00	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	0.34	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	61.0	61.0	< 0.005	< 0.005	0.12	61.9
Vendor	< 0.005	0.11	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	65.5	65.5	< 0.005	0.01	0.07	68.5
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

3.4. Building Construction (2023) - Mitigated

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

Location	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	1.26	11.8	13.2	0.02	0.55	—	0.55	0.51	—	0.51	—	2,397	2,397	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.26	11.8	13.2	0.02	0.55	—	0.55	0.51	—	0.51	—	2,397	2,397	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.66	6.19	6.91	0.01	0.29	—	0.29	0.27	—	0.27	—	1,257	1,257	0.05	0.01	—	1,262
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	1.13	1.26	< 0.005	0.05	—	0.05	0.05	—	0.05	—	208	208	0.01	< 0.005	—	209
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.33	0.27	3.95	0.00	0.00	0.04	0.04	0.00	0.00	0.00	—	738	738	0.03	0.03	3.13	750
Vendor	0.03	1.08	0.50	< 0.005	0.01	0.04	0.05	0.01	0.01	0.02	—	755	755	0.03	0.11	1.91	790
Hauling	0.00	0.00	0.00	0.00	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	0.32	0.30	3.47	0.00	0.00	0.04	0.04	0.00	0.00	0.00	—	696	696	0.04	0.03	0.08	705

Vendor	0.03	1.11	0.52	< 0.005	0.01	0.04	0.05	0.01	0.01	0.02	—	755	755	0.03	0.11	0.05	788
Hauling	0.00	0.00	0.00	0.00	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	0.16	0.16	1.84	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	369	369	0.02	0.01	0.71	374
Vendor	0.02	0.58	0.27	< 0.005	0.01	0.02	0.03	0.01	0.01	0.01	—	396	396	0.02	0.06	0.43	414
Hauling	0.00	0.00	0.00	0.00	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	0.34	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	61.0	61.0	< 0.005	< 0.005	0.12	61.9
Vendor	< 0.005	0.11	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	65.5	65.5	< 0.005	0.01	0.07	68.5
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

3.5. Building Construction (2024) - Unmitigated

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

Location	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	11.2	13.1	0.02	0.50	—	0.50	0.46	—	0.46	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.20	11.2	13.1	0.02	0.50	—	0.50	0.46	—	0.46	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.42	3.93	4.59	0.01	0.17	—	0.17	0.16	—	0.16	—	840	840	0.03	0.01	—	843
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.72	0.84	< 0.005	0.03	—	0.03	0.03	—	0.03	—	139	139	0.01	< 0.005	—	140
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.31	0.25	3.70	0.00	0.00	0.04	0.04	0.00	0.00	0.00	—	724	724	0.03	0.03	2.91	736
Vendor	0.03	1.03	0.47	< 0.005	0.01	0.04	0.05	0.01	0.01	0.02	—	744	744	0.03	0.10	1.91	777
Hauling	0.00	0.00	0.00	0.00	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	0.31	0.28	3.24	0.00	0.00	0.04	0.04	0.00	0.00	0.00	—	684	684	0.04	0.03	0.08	692
Vendor	0.03	1.06	0.49	< 0.005	0.01	0.04	0.05	0.01	0.01	0.02	—	744	744	0.03	0.10	0.05	776
Hauling	0.00	0.00	0.00	0.00	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	0.11	0.10	1.15	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	242	242	0.01	0.01	0.44	245
Vendor	0.01	0.37	0.17	< 0.005	< 0.005	0.01	0.02	< 0.005	0.01	0.01	—	261	261	0.01	0.04	0.29	272
Hauling	0.00	0.00	0.00	0.00	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	0.21	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	40.0	40.0	< 0.005	< 0.005	0.07	40.6

Vendor	< 0.005	0.07	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	43.1	43.1	< 0.005	0.01	0.05	45.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.6. Building Construction (2024) - Mitigated

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

Location	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	11.2	13.1	0.02	0.50	—	0.50	0.46	—	0.46	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.20	11.2	13.1	0.02	0.50	—	0.50	0.46	—	0.46	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.42	3.93	4.59	0.01	0.17	—	0.17	0.16	—	0.16	—	840	840	0.03	0.01	—	843
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.72	0.84	< 0.005	0.03	—	0.03	0.03	—	0.03	—	139	139	0.01	< 0.005	—	140
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.31	0.25	3.70	0.00	0.00	0.04	0.04	0.00	0.00	0.00	—	724	724	0.03	0.03	2.91	736
Vendor	0.03	1.03	0.47	< 0.005	0.01	0.04	0.05	0.01	0.01	0.02	—	744	744	0.03	0.10	1.91	777
Hauling	0.00	0.00	0.00	0.00	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	0.31	0.28	3.24	0.00	0.00	0.04	0.04	0.00	0.00	0.00	—	684	684	0.04	0.03	0.08	692
Vendor	0.03	1.06	0.49	< 0.005	0.01	0.04	0.05	0.01	0.01	0.02	—	744	744	0.03	0.10	0.05	776
Hauling	0.00	0.00	0.00	0.00	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	0.11	0.10	1.15	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	242	242	0.01	0.01	0.44	245
Vendor	0.01	0.37	0.17	< 0.005	< 0.005	0.01	0.02	< 0.005	0.01	0.01	—	261	261	0.01	0.04	0.29	272
Hauling	0.00	0.00	0.00	0.00	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	0.21	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	40.0	40.0	< 0.005	< 0.005	0.07	40.6
Vendor	< 0.005	0.07	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	43.1	43.1	< 0.005	0.01	0.05	45.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Paving (2024) - Unmitigated

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

Location	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	0.85	7.81	10.0	0.01	0.39	—	0.39	0.36	—	0.36	—	1,512	1,512	0.06	0.01	—	1,517
Paving	0.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.60	0.77	< 0.005	0.03	—	0.03	0.03	—	0.03	—	116	116	< 0.005	< 0.005	—	116
Paving	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.11	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.2	19.2	< 0.005	< 0.005	—	19.3
Paving	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.74	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	145	145	0.01	0.01	0.58	147
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.83	0.30	< 0.005	0.01	0.04	0.06	0.01	0.01	0.03	—	616	616	0.03	0.10	1.32	648
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	10.6	10.6	< 0.005	< 0.005	0.02	10.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.07	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	47.3	47.3	< 0.005	0.01	0.04	49.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	1.76	1.76	< 0.005	< 0.005	< 0.005	1.78
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.83	7.83	< 0.005	< 0.005	0.01	8.22

3.8. Paving (2024) - Mitigated

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

Location	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	0.85	7.81	10.0	0.01	0.39	—	0.39	0.36	—	0.36	—	1,512	1,512	0.06	0.01	—	1,517
Paving	0.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.60	0.77	< 0.005	0.03	—	0.03	0.03	—	0.03	—	116	116	< 0.005	< 0.005	—	116
Paving	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.11	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.2	19.2	< 0.005	< 0.005	—	19.3
Paving	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.74	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	145	145	0.01	0.01	0.58	147
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.83	0.30	< 0.005	0.01	0.04	0.06	0.01	0.01	0.03	—	616	616	0.03	0.10	1.32	648
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	10.6	10.6	< 0.005	< 0.005	0.02	10.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.07	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	47.3	47.3	< 0.005	0.01	0.04	49.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	1.76	1.76	< 0.005	< 0.005	< 0.005	1.78
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.83	7.83	< 0.005	< 0.005	0.01	8.22

3.9. Architectural Coating (2024) - Unmitigated

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

Location	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	0.14	0.91	1.15	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	31.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.07	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.2	10.2	< 0.005	< 0.005	—	10.3
Architectural Coatings	2.45	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.70	1.70	< 0.005	< 0.005	—	1.70
Architectural Coatings	0.45	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.74	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	145	145	0.01	0.01	0.58	147

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	0.00	—	10.6	10.6	< 0.005	< 0.005	0.02	10.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	0.00	—	1.75	1.75	< 0.005	< 0.005	< 0.005	1.78
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	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. Architectural Coating (2024) - Mitigated

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

Location	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	0.14	0.91	1.15	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	31.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.07	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.2	10.2	< 0.005	< 0.005	—	10.3
Architectural Coatings	2.45	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.70	1.70	< 0.005	< 0.005	—	1.70
Architectural Coatings	0.45	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.74	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	145	145	0.01	0.01	0.58	147
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	10.6	10.6	< 0.005	< 0.005	0.02	10.7

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	1.75	1.75	< 0.005	< 0.005	< 0.005	1.78
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	20.1	11.9	131	0.28	0.22	1.42	1.64	0.21	0.44	0.64	—	28,377	28,377	1.50	1.06	112	28,842
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.32	24.0	7.92	0.18	0.31	1.37	1.68	0.30	0.44	0.74	—	19,133	19,133	1.00	3.04	41.6	20,107
Total	20.4	36.0	139	0.45	0.54	2.78	3.32	0.51	0.87	1.38	—	47,511	47,511	2.50	4.10	153	48,949
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated	19.6	13.2	126	0.27	0.22	1.42	1.64	0.21	0.44	0.64	—	27,080	27,080	1.62	1.13	2.90	27,462
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.31	24.9	7.97	0.18	0.31	1.37	1.68	0.30	0.44	0.74	—	19,137	19,137	1.00	3.04	1.08	20,070
Total	19.9	38.1	134	0.44	0.54	2.78	3.32	0.51	0.87	1.38	—	46,217	46,217	2.62	4.18	3.98	47,532
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	3.52	2.38	22.8	0.05	0.04	0.26	0.30	0.04	0.08	0.12	—	4,516	4,516	0.26	0.19	7.99	4,586
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.06	4.55	1.45	0.03	0.06	0.25	0.31	0.05	0.08	0.13	—	3,168	3,168	0.17	0.50	2.97	3,325
Total	3.58	6.93	24.3	0.08	0.10	0.51	0.61	0.09	0.16	0.25	—	7,684	7,684	0.43	0.69	11.0	7,911

4.1.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	20.1	11.9	131	0.28	0.22	1.42	1.64	0.21	0.44	0.64	—	28,377	28,377	1.50	1.06	112	28,842

Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.32	24.0	7.92	0.18	0.31	1.37	1.68	0.30	0.44	0.74	—	19,133	19,133	1.00	3.04	41.6	20,107
Total	20.4	36.0	139	0.45	0.54	2.78	3.32	0.51	0.87	1.38	—	47,511	47,511	2.50	4.10	153	48,949
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	19.6	13.2	126	0.27	0.22	1.42	1.64	0.21	0.44	0.64	—	27,080	27,080	1.62	1.13	2.90	27,462
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.31	24.9	7.97	0.18	0.31	1.37	1.68	0.30	0.44	0.74	—	19,137	19,137	1.00	3.04	1.08	20,070
Total	19.9	38.1	134	0.44	0.54	2.78	3.32	0.51	0.87	1.38	—	46,217	46,217	2.62	4.18	3.98	47,532
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	3.52	2.38	22.8	0.05	0.04	0.26	0.30	0.04	0.08	0.12	—	4,516	4,516	0.26	0.19	7.99	4,586
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.06	4.55	1.45	0.03	0.06	0.25	0.31	0.05	0.08	0.13	—	3,168	3,168	0.17	0.50	2.97	3,325
Total	3.58	6.93	24.3	0.08	0.10	0.51	0.61	0.09	0.16	0.25	—	7,684	7,684	0.43	0.69	11.0	7,911

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	1,253	1,253	0.07	0.01	—	1,258
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	242	242	0.01	< 0.005	—	243
Total	—	—	—	—	—	—	—	—	—	—	—	1,495	1,495	0.08	0.01	—	1,501
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	1,253	1,253	0.07	0.01	—	1,258
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	242	242	0.01	< 0.005	—	243
Total	—	—	—	—	—	—	—	—	—	—	—	1,495	1,495	0.08	0.01	—	1,501
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse Rail	—	—	—	—	—	—	—	—	—	—	—	208	208	0.01	< 0.005	—	208
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	40.1	40.1	< 0.005	< 0.005	—	40.2
Total	—	—	—	—	—	—	—	—	—	—	—	248	248	0.01	< 0.005	—	248

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	1,253	1,253	0.07	0.01	—	1,258
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	242	242	0.01	< 0.005	—	243
Total	—	—	—	—	—	—	—	—	—	—	—	1,495	1,495	0.08	0.01	—	1,501
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	1,253	1,253	0.07	0.01	—	1,258
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	242	242	0.01	< 0.005	—	243
Total	—	—	—	—	—	—	—	—	—	—	—	1,495	1,495	0.08	0.01	—	1,501
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	208	208	0.01	< 0.005	—	208
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	40.1	40.1	< 0.005	< 0.005	—	40.2
Total	—	—	—	—	—	—	—	—	—	—	—	248	248	0.01	< 0.005	—	248

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.04	0.70	0.59	< 0.005	0.05	—	0.05	0.05	—	0.05	—	837	837	0.07	< 0.005	—	840

Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	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	0.04	0.70	0.59	< 0.005	0.05	—	0.05	0.05	—	0.05	—	837	837	0.07	< 0.005	—	840
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.04	0.70	0.59	< 0.005	0.05	—	0.05	0.05	—	0.05	—	837	837	0.07	< 0.005	—	840
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	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	0.04	0.70	0.59	< 0.005	0.05	—	0.05	0.05	—	0.05	—	837	837	0.07	< 0.005	—	840
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.01	0.13	0.11	< 0.005	0.01	—	0.01	0.01	—	0.01	—	139	139	0.01	< 0.005	—	139
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	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	0.01	0.13	0.11	< 0.005	0.01	—	0.01	0.01	—	0.01	—	139	139	0.01	< 0.005	—	139

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.04	0.70	0.59	< 0.005	0.05	—	0.05	0.05	—	0.05	—	837	837	0.07	< 0.005	—	840
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	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	0.04	0.70	0.59	< 0.005	0.05	—	0.05	0.05	—	0.05	—	837	837	0.07	< 0.005	—	840
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.04	0.70	0.59	< 0.005	0.05	—	0.05	0.05	—	0.05	—	837	837	0.07	< 0.005	—	840
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	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	0.04	0.70	0.59	< 0.005	0.05	—	0.05	0.05	—	0.05	—	837	837	0.07	< 0.005	—	840
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.01	0.13	0.11	< 0.005	0.01	—	0.01	0.01	—	0.01	—	139	139	0.01	< 0.005	—	139

Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	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	0.01	0.13	0.11	< 0.005	0.01	—	0.01	0.01	—	0.01	—	139	139	0.01	< 0.005	—	139

4.3. Area Emissions by Source

4.3.2. Unmitigated

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

Source	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	3.83	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.27	0.07	7.75	< 0.005	0.01	—	0.01	0.01	—	0.01	—	31.9	31.9	< 0.005	< 0.005	—	32.0
Total	5.35	0.07	7.75	< 0.005	0.01	—	0.01	0.01	—	0.01	—	31.9	31.9	< 0.005	< 0.005	—	32.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	3.83	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	0.24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	4.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.11	0.01	0.70	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.60	2.60	< 0.005	< 0.005	—	2.61
Total	0.86	0.01	0.70	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.60	2.60	< 0.005	< 0.005	—	2.61

4.3.1. Mitigated

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

Source	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	3.83	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.27	0.07	7.75	< 0.005	0.01	—	0.01	0.01	—	0.01	—	31.9	31.9	< 0.005	< 0.005	—	32.0
Total	5.35	0.07	7.75	< 0.005	0.01	—	0.01	0.01	—	0.01	—	31.9	31.9	< 0.005	< 0.005	—	32.0

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	3.83	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	4.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscaping Equipment	0.11	0.01	0.70	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.60	2.60	< 0.005	< 0.005	—	2.61
Total	0.86	0.01	0.70	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.60	2.60	< 0.005	< 0.005	—	2.61

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

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

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

Unrefrigerated Warehouse-No	—	—	—	—	—	—	—	—	—	—	78.9	453	532	8.12	0.20	—	793
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	8.21	8.21	< 0.005	< 0.005	—	8.23
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	78.9	461	540	8.12	0.20	—	801
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	78.9	453	532	8.12	0.20	—	793
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	8.21	8.21	< 0.005	< 0.005	—	8.23
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	78.9	461	540	8.12	0.20	—	801
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	13.1	74.9	88.0	1.34	0.03	—	131
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	1.36	1.36	< 0.005	< 0.005	—	1.36
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	13.1	76.3	89.4	1.34	0.03	—	133

4.4.1. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	78.9	453	532	8.12	0.20	—	793
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	8.21	8.21	< 0.005	< 0.005	—	8.23
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	78.9	461	540	8.12	0.20	—	801
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	78.9	453	532	8.12	0.20	—	793
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	8.21	8.21	< 0.005	< 0.005	—	8.23
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	78.9	461	540	8.12	0.20	—	801
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse Rail	—	—	—	—	—	—	—	—	—	—	13.1	74.9	88.0	1.34	0.03	—	131
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	1.36	1.36	< 0.005	< 0.005	—	1.36
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	13.1	76.3	89.4	1.34	0.03	—	133

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	90.3	0.00	90.3	9.02	0.00	—	316
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	90.3	0.00	90.3	9.02	0.00	—	316
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated	—	—	—	—	—	—	—	—	—	—	90.3	0.00	90.3	9.02	0.00	—	316
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	90.3	0.00	90.3	9.02	0.00	—	316
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	14.9	0.00	14.9	1.49	0.00	—	52.3
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	14.9	0.00	14.9	1.49	0.00	—	52.3

4.5.1. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	22.6	0.00	22.6	2.26	0.00	—	78.9

Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	22.6	0.00	22.6	2.26	0.00	—	78.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	22.6	0.00	22.6	2.26	0.00	—	78.9
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	22.6	0.00	22.6	2.26	0.00	—	78.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	3.74	0.00	3.74	0.37	0.00	—	13.1
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	3.74	0.00	3.74	0.37	0.00	—	13.1

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,748	4,748
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,748	4,748
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,748	4,748
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,748	4,748
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	786	786
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	786	786

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,748	4,748
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,748	4,748
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,748	4,748
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,748	4,748
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	786	786
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	786	786

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	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	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)

Equipme Type	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)

Equipme nt Type	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)

Equipme nt Type	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)

Equipme nt Type	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	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	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	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	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	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	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
Grading	Grading	3/1/2023	4/7/2023	5.00	28.0	—
Building Construction	Building Construction	4/8/2023	6/27/2024	5.00	319	—
Paving	Paving	6/28/2024	8/6/2024	5.00	28.0	—
Architectural Coating	Architectural Coating	8/7/2024	9/13/2024	5.00	28.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40

Grading	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38

Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48
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5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Grading	—	—	—	—
Grading	Worker	15.0	12.0	LDA,LDT1,LDT2
Grading	Vendor	—	7.63	HHDT,MHDT
Grading	Hauling	22.3	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	74.8	12.0	LDA,LDT1,LDT2
Building Construction	Vendor	29.2	7.63	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	12.0	LDA,LDT1,LDT2
Paving	Vendor	—	7.63	HHDT,MHDT
Paving	Hauling	8.40	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	15.0	12.0	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	7.63	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Grading	—	—	—	—
Grading	Worker	15.0	12.0	LDA,LDT1,LDT2
Grading	Vendor	—	7.63	HHDT,MHDT
Grading	Hauling	22.3	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	74.8	12.0	LDA,LDT1,LDT2
Building Construction	Vendor	29.2	7.63	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	12.0	LDA,LDT1,LDT2
Paving	Vendor	—	7.63	HHDT,MHDT
Paving	Hauling	8.40	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	15.0	12.0	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	7.63	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	267,240	89,080	14,715

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Grading	—	5,000	53.0	0.00	—
Paving	0.00	0.00	0.00	0.00	5.63

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Unrefrigerated Warehouse-No Rail	0.00	0%
Other Non-Asphalt Surfaces	1.70	0%
Parking Lot	3.93	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2023	0.00	589	0.03	< 0.005
2024	0.00	589	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	4,757	4,757	4,757	1,736,258	33,532	33,532	33,532	12,239,179
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	132	132	132	48,180	5,280	5,280	5,280	1,927,200

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	4,757	4,757	4,757	1,736,258	33,532	33,532	33,532	12,239,179
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	132	132	132	48,180	5,280	5,280	5,280	1,927,200

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	267,240	89,080	14,715

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	776,770	589	0.0330	0.0040	2,613,095
Other Non-Asphalt Surfaces	0.00	589	0.0330	0.0040	0.00
Parking Lot	149,963	589	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)
Unrefrigerated Warehouse-No Rail	776,770	589	0.0330	0.0040	2,613,095
Other Non-Asphalt Surfaces	0.00	589	0.0330	0.0040	0.00
Parking Lot	149,963	589	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)
Unrefrigerated Warehouse-No Rail	41,199,500	0.00
Other Non-Asphalt Surfaces	0.00	958,369
Parking Lot	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	41,199,500	0.00
Other Non-Asphalt Surfaces	0.00	958,369
Parking Lot	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	167	0.00
Other Non-Asphalt Surfaces	0.00	0.00
Parking Lot	0.00	0.00

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	41.9	0.00
Other Non-Asphalt Surfaces	0.00	0.00

Parking Lot	0.00	0.00
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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
Unrefrigerated Warehouse-No Rail	Cold storage	R-404A	3,922	7.50	7.50	7.50	25.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Unrefrigerated Warehouse-No Rail	Cold storage	R-404A	3,922	7.50	7.50	7.50	25.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

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

5.16.1. Emergency Generators and Fire Pumps

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

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

Equipment Type	Fuel Type
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

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

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

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

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

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

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	7.94	annual days of extreme heat
Extreme Precipitation	2.15	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	1.25	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 (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth 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 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

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

6.2. Initial Climate Risk Scores

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

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

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

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

6.3. Adjusted Climate Risk Scores

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

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	29.9
AQ-PM	68.7
AQ-DPM	62.1
Drinking Water	17.1
Lead Risk Housing	31.4
Pesticides	0.00
Toxic Releases	72.4
Traffic	76.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	15.2
Haz Waste Facilities/Generators	38.7
Impaired Water Bodies	23.9
Solid Waste	95.0
Sensitive Population	—
Asthma	73.5
Cardio-vascular	50.0

Low Birth Weights	87.0
Socioeconomic Factor Indicators	—
Education	63.9
Housing	56.0
Linguistic	45.4
Poverty	43.1
Unemployment	88.1

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	68.71551392
Employed	78.07006288
Median HI	53.11176697
Education	—
Bachelor's or higher	33.13229822
High school enrollment	100
Preschool enrollment	50.42987296
Transportation	—
Auto Access	90.86359553
Active commuting	16.6944694
Social	—
2-parent households	15.24445015
Voting	49.98075196
Neighborhood	—
Alcohol availability	48.47940459

Park access	81.35506224
Retail density	83.04889003
Supermarket access	40.13858591
Tree canopy	34.73630181
Housing	—
Homeownership	68.42037726
Housing habitability	72.10316951
Low-inc homeowner severe housing cost burden	79.66123444
Low-inc renter severe housing cost burden	40.31823431
Uncrowded housing	49.60862312
Health Outcomes	—
Insured adults	48.58206082
Arthritis	59.3
Asthma ER Admissions	22.6
High Blood Pressure	75.3
Cancer (excluding skin)	57.8
Asthma	69.3
Coronary Heart Disease	63.8
Chronic Obstructive Pulmonary Disease	71.2
Diagnosed Diabetes	40.6
Life Expectancy at Birth	26.0
Cognitively Disabled	68.5
Physically Disabled	49.3
Heart Attack ER Admissions	38.6
Mental Health Not Good	52.8
Chronic Kidney Disease	35.4
Obesity	44.4

Pedestrian Injuries	19.6
Physical Health Not Good	53.6
Stroke	70.4
Health Risk Behaviors	—
Binge Drinking	21.6
Current Smoker	65.4
No Leisure Time for Physical Activity	46.3
Climate Change Exposures	—
Wildfire Risk	0.3
SLR Inundation Area	0.0
Children	71.1
Elderly	61.3
English Speaking	55.5
Foreign-born	55.1
Outdoor Workers	51.9
Climate Change Adaptive Capacity	—
Impervious Surface Cover	33.1
Traffic Density	86.5
Traffic Access	23.0
Other Indices	—
Hardship	42.4
Other Decision Support	—
2016 Voting	59.8

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	66.0

Healthy Places Index Score for Project Location (b)	57.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

Measure Title	Co-Benefits Achieved
CCD-1: Consult Pre-existing Community Knowledge/Priorities	—
IE-4: Inclusive Community Meetings	—
IE-5: Provide Education on Essential Topics Related to Project	—
A-4: Establish Clear Points of Contact	—
CE-1: Create a Construction Plan with Community Input	—
CE-2: Ensure Active Modes Access During Construction	—
CE-3: Post a Clear, Visible Enforcement and Complaint Sign	—

7.5. Evaluation Scorecard

This table summarizes the points earned for each health and equity measure category, and the total possible points for each category. If N/A is selected for any measure(s), the total possible points in that category are reduced accordingly. The points for each category are then weighted on a 15-point scale to determine the score per category and a total weighted score.

Category	Number of Applicable Measures	Total Points Earned by Applicable Measures	Max Possible Points	Weighted Score
Community-Centered Development	5.00	1.00	25.0	0.57
Inclusive Engagement	6.00	4.00	30.0	1.90
Accountability	5.00	5.00	25.0	2.86
Construction Equity	6.00	10.0	30.0	4.76
Public Health and Air Quality	4.00	0.00	20.0	0.00
Inclusive Economics & Prosperity	4.00	0.00	20.0	0.00

Inclusive Communities	4.00	0.00	20.0	0.00
Total	34.0	20.0	170	10.1

Based on the weighted score of 10 out of a total 170 possible points, your project qualifies for the Acorn equity award level.
 Organization(s) consulted by the user to complete the Health & Equity Scorecard:



7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	No demolition or site preparation required. Proportionally changed for 18 month construction.
Operations: Vehicle Data	Per proposed project trip gen provided by Linscott, Law & Greenspan Engineers, site specific trip gen of 4,881 per day, with 132 of those trips being HHD trucks. 40 miles per day assumed average for truck trips.
Operations: Fleet Mix	Based on 132 heavy duty truck trips per day out of 4,881 total trips
Construction: Dust From Material Movement	Per grading plan
Land Use	Per site plan
Construction: Trips and VMT	Hauling trips added to paving phase to account for asphalt delivery using a conservative assumption of 3,763.2 cubic yards of asphalt (65 square feet of coverage per cubic yard of asphalt) to be delivered.

Appendix B:

Cumulative Project List

Shinohara Cumulative Project List

1. **Project Site** – DR21-0032 – To develop a 178,156 square-foot single-story industrial building for warehousing and office uses on a vacant 9.72-acre parcel. Hours of operation are proposed as a 24-hour operation, seven days a week, with 3 varying shifts. The subject site is zoned ILP (Limited Industrial Precise Plan) and a General Plan designation of IL (Limited Industrial). The project will include one entitlement for a Design Review DR21-0032 and a Mitigated Negative Declaration with Mitigation Measures and Reporting Program IS21-0006, subject to review and approval by the Planning Commission of the City of Chula Vista.
2. 1810 Main Court – In-N-Out Restaurant.
3. 1891 Nirvana Avenue – Cannabis Dispensary – Conditional Use Permit to allow the operation of a storefront retail cannabis business within an existing 3,221 sq. ft. industrial building on a 1.05-acre site located within the General Industrial (I) zone.
4. NWC Heritage/Santa Maya – Escaya Industrial – Design Review Permit to allow the construction of three industrial shell buildings. The site is in the Otay Ranch Village 3 Sectional Planning Area (SPA) and has a zoning designation of Industrial (I) and a General Plan designation of Limited Industrial (IL).
5. 1855 Maxwell Road – CV School district Vehicle Repair Shop – Design Review to construct a proposed one-story, 15,500 sq. ft. building for vehicle repair of school buses and office space for the Chula Vista Elementary School District.
6. 821 Main Street – Nirvana Business Park – DR21-0024 for the review of the site plan and the three proposed warehouse buildings, and the self-storage building. Building 1 is proposed as 59,044 square feet, Building 2 is proposed as 44,592 square feet, Building 3 is proposed as three-stories 140,802 square feet for self-storage, and building 4 is proposed as 50,030 square feet. A Tentative Parcel Map – TPM21-0003 is also proposed to subdivide the 13.31-acre property into four (4) parcels, one for each of the buildings. The four parcels' public right-of-way is provided via a private access easement to Nirvana Avenue.
7. 750 Main Street – Maxwell @ Main – Development of 8.21 gross-acre site within the Auto Park East Specific Plan. The project includes a Design Review, a Tentative Tract Map (seven lots), and a Notice of Exemption (under the Auto Park East Specific Plan Mitigated Negative Declaration. The site is General Plan designated IL – Limited Industrial and Zoned (ILP) Limited Industrial and is located within the Auto Park East Specific Plan. The seven commercial buildings proposed are as follows:
 - Building A – a 2,551-square-foot drive-through restaurant
 - Building B – a 2,164-square-foot drive-through restaurant

- Building C – a 4,446-square-foot retail car wash
 - Building D – a 2,400-square-foot drive-through restaurant
 - Building E – a gasoline station with a 4,620-square-foot convenience store (with a type 20 off-site beer and wine license) and a 4,596-square-foot canopy covering eight dispensers,
 - Building F– a 2,221-square-foot drive-through restaurant
 - Building G – a 16,89- square-foot collision (auto-repair) facility
8. 1875 Auto Park Avenue – Mossy Chrysler Dodge Ram & Jeep Chula Vista Showroom & Sales Office – DR20-0025 – Design Review for a two-story, 54,400 square foot building and a detached 1,200 square foot carwash for a Mossy automobile dealership with automotive repair services and associated carwash on approximately 6.51 acres within the Auto Park North Specific Plan.
 9. 670 Main Street – BMW – DR17-0031 – Design Review consideration of a two-story, 37,600 sq. ft. building for a BMW auto dealership with auto repair/service and associated carwash on approximately 4.2 acres.
 10. 1880 Auto Park Place – Automotive Repair – DR19- 0025 – Design Review consideration of a 27, 821 square-foot building with a 4, 185 square-foot covered entryway for supportive uses to include a vehicle collision and automotive repair facility.

Appendix C:

AERMOD Model Printouts



Catherine Howe <catherine@mdacoustics.com>

Re: OnPoint Shinohara 571 Shinohara

Renald Espiritu <espiritu@llgengineers.com>

Mon, Aug 2, 2021 at 10:36 AM

To: Catherine Howe <catherine@mdacoustics.com>

Cc: Mike Dickerson <mike@mdacoustics.com>, Mary Lanier <mary@mckennalanier.com>, "John A. Boarman" <boarman@llgengineers.com>

Good morning Catherine,

The 132 truck trips are for the larger trucks such as truck-trailers.

Respectfully yours,

Renald Espiritu

Transportation Engineer II

espiritu@llgengineers.com

Linscott, Law & Greenspan, Engineers

4542 Ruffner Street, Suite 100

San Diego, CA 92111

858.300.8800 x242

www.llgengineers.com



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Table A
Trip Generation – Shinohara

Land Use	Size	Daily Trip Ends (ADTs)		AM Peak Hour					PM Peak Hour					Truck Traffic
		Rate ^a	Volume	% of ADT ^a	In:Out Split ^a	Volume			% of ADT ^a	In:Out Split	Volume			
						In	Out	Total			In	Out	Total	
Warehousing at 5/KSF														
Office	7,468 SF	20 /KSF ^b	149	14%	90 : 10	19	2	21	13%	20 : 80	4	15	19	–
Industrial Building	187,748 SF	5 /KSF ^c	939	13%	70 : 30	85	37	122	15%	40 : 60	56	85	141	
Total			1,088			104	39	143			60	100	160	
Industrial Plant at 10/KSF														
Office	7,468 SF	20 /KSF ^b	149	14%	90 : 10	19	2	21	13%	20 : 80	4	15	19	–
Industrial Building	187,748 SF	10 /KSF ^d	1,877	14%	80 : 20	210	53	263	15%	30 : 70	85	197	282	
Total			2,026			229	55	284			89	212	301	
Site Specific (Amazon generators) at 25/KSF														
Office	7,468 SF	25 /KSF ^e	187	6.71%	38 : 62	5	8	13	12.67%	70 : 30	17	7	24	132
Industrial Building	187,748 SF	25 /KSF ^e	4,694	6.71%	38 : 62	120	195	315	12.67%	70 : 30	417	178	595	
Total			4,881			125	203	328			434	185	619	

Footnotes:

- a. Rates are based on SANDAG's (Not So) Brief Guide of Vehicular Traffic Generation Rates for the San Diego Region, April 2002.
- b. Rates are based on standard commercial office rate of 20/1,000 SF.
- c. Rates are based on warehousing rate of 5/1,000 SF.
- d. Rates are based on industrial plant rate of 10/1,000 SF.
- e. Rates are based on site specific rate of 25/1,000 SF.

Emission Assumptions **DPM** Emissions
06232110 Shinohara Chula Vista

Facility Operations

Buildout year: 2022

Emission Factors

1) Onsite Vehicle Emissions

a) Truck

(1) EMFAC2017

(a) Annual Meteorology

Temperature: 61 degF

Relative Humidity: 60%

(b) Calculations for San Diego County

(c) Truck Mix

4+ axle heavy-heavy duty diesel trucks (HHDT)

4 axle diesel trucks (MHDT)

2 axle diesel trucks (LHDT2)

(d) Onsite Truck Travel Speed: 10 mph

(e) Off-site Truck Travel Speed: 35 mph

(f) Idle speed: 0 mph

(g) Truck Idle time: 15 minutes per truck per day

2) Other Parameters

(a) Width of Volume Source: 12 feet

(b) Truck Operational Schedule 24 hours/day

(c) Height of Plume: 12 feet

06232110 Shinohara Chula Vista		Emission:	DPM										
Processes Modeled		Build-out:	2022										
Onsite delivery traffic													
Truck idling													
Offsite delivery traffic													
Facilities in Operation													
Location	Truck type	Daily trucks											
Project Site	HHDT	132											
Project Site	MHDT	0											
Project Site	LHDT2	0											
Total		132											
Delivery Schedule:													
24 hrs/day, 52 weeks/year													
Emission Factors 1 Year (2022)													
Vehicle Class	Onsite Exhaust (g/mi)	Offsite Exhaust (g/mi)	Idle (g/hr)										
HHDT	0.04653	0.02200	0.30984										
MHDT	0.05278	0.02937	0.31208										
LHDT2	0.04582	0.01781	0.29932										
Onsite Roadway Links Modeled													
Link	Truck Type	Emission Factor (g/mi)	Trips per day (in and out)	Length (m)	Length (mi)	Daily Emissions Over the Link (g/day)	Emissions Over the Link (g/sec)	Emissions Over Link (lb/hr)	Daily Emissions (lbs/day)	Annual Avg Emissions Over Link (tons/yr)	Total Daily Emissions for all Vehicles (g/sec)		
From project driveway to loading area	HHDT	0.04653	132	218.4	0.14	8.33E-01	9.64E-06	6.61E+00	1.84E-03	3.35E-04			
From project driveway to loading area	MHDT	0.05278	0	218.4	0.14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.64E-06	100% of trucks	
From project driveway to loading area	LHDT2	0.04582	0	218.4	0.14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00			
Truck Idling													
Idle time		15 minutes											
Building/Location	Truck Type	Emission Factor (g/idle-hour)	Idling Time (min)	Daily Trucks	Total Emissions (g/day)	Max Hourly Emissions (g/sec)	Max Hourly Emissions (lb/hr)	Total Daily Emissions (lbs/day)	Total Emissions (tons/yr)	Total Emissions (tons/yr)			
At truck loading areas	HHDT	0.30984	15	132	10.22	1.18E-04	9.38E-04	2.25E-02	4.11E-03				
At truck loading areas	MHDT	0.31208	15	0	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04			
At truck loading areas	LHDT2	0.29932	15	0	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-05	per idling location (4 total)		
Offsite Roadway Links Modeled													
Link	Truck Type	Emission Factor (g/mi)	Trips per day	Length (m)	Length (mi)	Daily Emissions Over the Link (g/day)	Emissions Over the Link (g/sec)	Max Hourly Emissions Over Link (lb/hr)	Daily Emissions (lbs/day)	Annual Avg Emissions Over Link (tons/yr)			
Shinohara Lane from project driveway to Brandywine Avenue	HHDT	0.02200	132	124.2	0.08	2.24E-01	2.59E-06	1.78E+00	4.94E-04	9.01E-05	100% of trucks		
Shinohara Lane from project driveway to Brandywine Avenue	MHDT	0.02937	0	124.2	0.08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-06		
Shinohara Lane from project driveway to Brandywine Avenue	LHDT2	0.01781	0	124.2	0.08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00			
Brandywine Avenue from Shinohara Lane to Main Street	HHDT	0.02200	132	174.1	0.11	3.14E-01	3.64E-06	2.49E+00	6.92E-04	1.26E-04	100% of trucks		
Brandywine Avenue from Shinohara Lane to Main Street	MHDT	0.02937	0	174.1	0.11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-06		
Brandywine Avenue from Shinohara Lane to Main Street	LHDT2	0.01781	0	174.1	0.11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00			
Main Street from Brandywine Avenue to 805 Freeway	HHDT	0.02200	132	591.8	0.37	1.07E+00	1.24E-05	8.47E+00	2.35E-03	4.29E-04	100% of trucks		
Main Street from Brandywine Avenue to 805 Freeway	MHDT	0.02937	0	591.8	0.37	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05		
Main Street from Brandywine Avenue to 805 Freeway	LHDT2	0.01781	0	591.8	0.37	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00			
805 Freeway Northbound Ramp	HHDT	0.02200	132	273.6	0.17	4.94E-01	5.71E-06	3.91E+00	1.09E-03	1.98E-04	50% of trucks		
805 Freeway Northbound Ramp	MHDT	0.02937	0	273.6	0.17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-06		
805 Freeway Northbound Ramp	LHDT2	0.01781	0	273.6	0.17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00			
Main Street from 805 NB Ramp to SB Ramp	HHDT	0.02200	132	121.8	0.08	2.20E-01	2.54E-06	1.74E+00	4.84E-04	8.83E-05	50% of trucks		
Main Street from 805 NB Ramp to SB Ramp	MHDT	0.02937	0	121.8	0.08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-06		
Main Street from 805 NB Ramp to SB Ramp	LHDT2	0.01781	0	121.8	0.08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00			
805 Freeway Southbound Ramp	HHDT	0.02200	132	247	0.15	4.46E-01	5.16E-06	3.53E+00	9.81E-04	1.79E-04	50% of trucks		
805 Freeway Southbound Ramp	MHDT	0.02937	0	247	0.15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-06		
805 Freeway Southbound Ramp	LHDT2	0.01781	0	247	0.15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00			

06232110 Shinohara Chula Vista		Emission:	DPM										
Processes Modeled		Build-out:	2022										
Onsite delivery traffic													
Truck idling													
Offsite delivery traffic													
Facilities in Operation													
Location	Truck type	Daily trucks											
Project Site	HHDT	132											
Project Site	MHDT	0											
Project Site	LHDT2	0											
Total		132											
Delivery Schedule:		24 hrs/day, 52weeks/year											
Emission Factors 2 Year (2023 & 2024)		Onsite Exhaust (g/mi)	Offsite Exhaust (g/mi)	Idle (g/hr)									
Vehicle Class													
HHDT		0.01505	0.01020	0.08755									
MHDT		0.00697	0.00392	0.04108									
LHDT2		0.04243	0.01700	0.27215									
Onsite Roadway Links Modeled													
Link	Truck Type	Emission Factor (g/mi)	Trips per day (in and out)	Length (m)	Length (mi)	Daily Emissions Over the Link (g/day)	Emissions Over the Link (g/sec)	Emissions Over Link (lb/hr)	Daily Emissions (lbs/day)	Annual Avg Emissions Over Link (tons/yr)	Total Daily Emissions for all Vehicles (g/sec)		
From project driveway to loading area	HHDT	0.01505	132	218.4	0.14	2.70E-01	3.12E-06	2.14E+00	5.94E-04	1.08E-04			
From project driveway to loading area	MHDT	0.00697	0	218.4	0.14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-06	100% of trucks	
From project driveway to loading area	LHDT2	0.04243	0	218.4	0.14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00			
Truck Idling													
Idle time		15 minutes											
Building/Location	Truck Type	Emission Factor (g/idle-hour)	Idling Time (min)	Daily Trucks	Total Emissions (g/day)	Max Hourly Emissions (g/sec)	Max Hourly Emissions (lb/hr)	Total Daily Emissions (lbs/day)	Total Emissions (tons/yr)	Total Emissions (tons/yr)			
At truck loading areas	HHDT	0.08755	15	132	2.89	3.34E-05	2.65E-04	6.36E-03	1.16E-03				
At truck loading areas	MHDT	0.04108	15	0	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		3.34E-05		
At truck loading areas	LHDT2	0.27215	15	0	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		8.36E-06	per idling location (4 total)	
Offsite Roadway Links Modeled													
Link	Truck Type	Emission Factor (g/mi)	Trips per day	Length (m)	Length (mi)	Daily Emissions Over the Link (g/day)	Emissions Over the Link (g/sec)	Max Hourly Emissions Over Link (lb/hr)	Daily Emissions (lbs/day)	Annual Avg Emissions Over Link (tons/yr)			
Shinohara Lane from project driveway to Brandywine Avenue	HHDT	0.01020	132	124.2	0.08	1.04E-01	1.20E-06	8.24E-01	2.29E-04	4.18E-05	100% of trucks		
Shinohara Lane from project driveway to Brandywine Avenue	MHDT	0.00392	0	124.2	0.08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-06		
Shinohara Lane from project driveway to Brandywine Avenue	LHDT2	0.01700	0	124.2	0.08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00			
Brandywine Avenue from Shinohara Lane to Main Street	HHDT	0.01020	132	174.1	0.11	1.46E-01	1.69E-06	1.15E+00	3.21E-04	5.85E-05	100% of trucks		
Brandywine Avenue from Shinohara Lane to Main Street	MHDT	0.00392	0	174.1	0.11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-06		
Brandywine Avenue from Shinohara Lane to Main Street	LHDT2	0.01700	0	174.1	0.11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00			
Main Street from Brandywine Avenue to 805 Freeway	HHDT	0.01020	132	591.8	0.37	4.95E-01	5.73E-06	3.92E+00	1.09E-03	1.99E-04	100% of trucks		
Main Street from Brandywine Avenue to 805 Freeway	MHDT	0.00392	0	591.8	0.37	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-06		
Main Street from Brandywine Avenue to 805 Freeway	LHDT2	0.01700	0	591.8	0.37	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00			
805 Freeway Northbound Ramp	HHDT	0.01020	132	273.6	0.17	2.29E-01	2.65E-06	1.81E+00	5.04E-04	9.20E-05	50% of trucks		
805 Freeway Northbound Ramp	MHDT	0.00392	0	273.6	0.17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-06		
805 Freeway Northbound Ramp	LHDT2	0.01700	0	273.6	0.17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00			
Main Street from 805 NB Ramp to SB Ramp	HHDT	0.01020	132	121.8	0.08	1.02E-01	1.18E-06	8.08E-01	2.24E-04	4.10E-05	50% of trucks		
Main Street from 805 NB Ramp to SB Ramp	MHDT	0.00392	0	121.8	0.08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.90E-07		
Main Street from 805 NB Ramp to SB Ramp	LHDT2	0.01700	0	121.8	0.08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00			
805 Freeway Southbound Ramp	HHDT	0.01020	132	247	0.15	2.07E-01	2.39E-06	1.64E+00	4.55E-04	8.30E-05	50% of trucks		
805 Freeway Southbound Ramp	MHDT	0.00392	0	247	0.15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-06		
805 Freeway Southbound Ramp	LHDT2	0.01700	0	247	0.15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00			

06232110 Shinohara Chula Vista		Emission:	DPM												
Processes Modeled		Build-out:	2022												
Onsite delivery traffic															
Truck idling															
Offsite delivery traffic															
Facilities in Operation															
Location	Truck type	Daily trucks													
Project Site	HHDT	132													
Project Site	MHDT	0													
Project Site	LHDT2	0													
Total		132													
Delivery Schedule:		24 hrs/day, 52weeks/year													
Emission Factors 14 Year 2025-2038		Onsite Exhaust (g/mi)	Offsite Exhaust (g/mi)	Idle (g/hr)											
Vehicle Class															
HHDT		0.01159	0.00885	0.06543											
MHDT		0.00525	0.00375	0.03050											
LHDT2		0.03328	0.01504	0.19651											
Onsite Roadway Links Modeled															
Link	Truck Type	Emission Factor (g/mi)	Trips per day (in and out)	Length (m)	Length (mi)	Daily Emissions Over the Link (g/day)	Emissions Over the Link (g/sec)	Emissions Over Link (lb/hr)	Daily Emissions (lbs/day)	Annual Avg Emissions Over Link (tons/yr)	Total Daily Emissions for all Vehicles (g/sec)				
From project driveway to loading area	HHDT	0.01159	132	218.4	0.14	2.08E-01	2.40E-06	1.65E+00	4.57E-04	8.34E-05					
From project driveway to loading area	MHDT	0.00525	0	218.4	0.14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-06	100% of trucks			
From project driveway to loading area	LHDT2	0.03328	0	218.4	0.14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00					
Truck Idling		Idle time	15 minutes												
Building/Location	Truck Type	Emission Factor (g/Idle-hour)	Idling Time (min)	Daily Trucks	Total Emissions (g/day)	Max Hourly Emissions (g/sec)	Max Hourly Emissions (lb/hr)	Total Daily Emissions (lbs/day)	Total Emissions (tons/yr)	Total Emissions (tons/yr)					
At truck loading areas	HHDT	0.06543	15	132	2.16	2.50E-05	1.98E-04	4.76E-03	8.68E-04						
At truck loading areas	MHDT	0.03050	15	0	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05					
At truck loading areas	LHDT2	0.19651	15	0	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-06	per idling location (4 total)				
Offsite Roadway Links Modeled															
Link	Truck Type	Emission Factor (g/mi)	Trips per day	Length (m)	Length (mi)	Daily Emissions Over the Link (g/day)	Emissions Over the Link (g/sec)	Max Hourly Emissions Over Link (lb/hr)	Daily Emissions (lbs/day)	Annual Avg Emissions Over Link (tons/yr)					
Shinohara Lane from project driveway to Brandywine Avenue	HHDT	0.00885	132	124.2	0.08	9.01E-02	1.04E-06	7.15E-01	1.99E-04	3.62E-05	100% of trucks				
Shinohara Lane from project driveway to Brandywine Avenue	MHDT	0.00375	0	124.2	0.08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-06				
Shinohara Lane from project driveway to Brandywine Avenue	LHDT2	0.01504	0	124.2	0.08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00					
Brandywine Avenue from Shinohara Lane to Main Street	HHDT	0.00885	132	174.1	0.11	1.26E-01	1.46E-06	1.00E+00	2.78E-04	5.08E-05	100% of trucks				
Brandywine Avenue from Shinohara Lane to Main Street	MHDT	0.00375	0	174.1	0.11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-06				
Brandywine Avenue from Shinohara Lane to Main Street	LHDT2	0.01504	0	174.1	0.11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00					
Main Street from Brandywine Avenue to 805 Freeway	HHDT	0.00885	132	591.8	0.37	4.29E-01	4.97E-06	3.41E+00	9.46E-04	1.73E-04	100% of trucks				
Main Street from Brandywine Avenue to 805 Freeway	MHDT	0.00375	0	591.8	0.37	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-06				
Main Street from Brandywine Avenue to 805 Freeway	LHDT2	0.01504	0	591.8	0.37	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00					
805 Freeway Northbound Ramp	HHDT	0.00885	132	273.6	0.17	1.99E-01	2.30E-06	1.57E+00	4.37E-04	7.98E-05	50% of trucks				
805 Freeway Northbound Ramp	MHDT	0.00375	0	273.6	0.17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-06				
805 Freeway Northbound Ramp	LHDT2	0.01504	0	273.6	0.17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00					
Main Street from 805 NB Ramp to SB Ramp	HHDT	0.00885	132	121.8	0.08	8.84E-02	1.02E-06	7.01E-01	1.95E-04	3.55E-05	50% of trucks				
Main Street from 805 NB Ramp to SB Ramp	MHDT	0.00375	0	121.8	0.08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-07				
Main Street from 805 NB Ramp to SB Ramp	LHDT2	0.01504	0	121.8	0.08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00					
805 Freeway Southbound Ramp	HHDT	0.00885	132	247	0.15	1.79E-01	2.07E-06	1.42E+00	3.95E-04	7.21E-05	50% of trucks				
805 Freeway Southbound Ramp	MHDT	0.00375	0	247	0.15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-06				
805 Freeway Southbound Ramp	LHDT2	0.01504	0	247	0.15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00					

EMFAC2017 for San Diego

PM10 Running and Idling Exhaust

Area	Season	Veh	Fuel	MdlYr	Speed (Miles/hr)	2022 (gms/mile)	2023 (gms/mile)	2024 (gms/mile)	2025 (gms/mile)	2026 (gms/mile)	2027 (gms/mile)	2028 (gms/mile)	2029 (gms/mile)	2030 (gms/mile)	2031 (gms/mile)	2032 (gms/mile)	2033 (gms/mile)
San Diego	Annual	LHDT2	DSL	Aggregated	0	0.299321	0.280386	0.263923	0.249888	0.237316	0.226342	0.216764	0.208592	0.201276	0.194485	0.188241	0.182844
San Diego	Annual	LHDT2	DSL	Aggregated	5	0.059864	0.056077	0.052785	0.049978	0.047463	0.045268	0.043353	0.041718	0.040255	0.038897	0.037648	0.036569
San Diego	Annual	LHDT2	DSL	Aggregated	10	0.045823	0.043449	0.041407	0.039687	0.038157	0.036832	0.035685	0.034715	0.033849	0.03304	0.032294	0.031651
San Diego	Annual	LHDT2	DSL	Aggregated	35	0.017813	0.017236	0.016758	0.016373	0.016038	0.015758	0.015522	0.015331	0.015161	0.014999	0.014848	0.014719
San Diego	Annual	MHDT	DSL	Aggregated	0	0.312077	0.042142	0.040025	0.038059	0.036227	0.03457	0.033192	0.031995	0.030935	0.029969	0.029158	0.028515
San Diego	Annual	MHDT	DSL	Aggregated	5	0.062415	0.008428	0.008005	0.007612	0.007245	0.006914	0.006638	0.006399	0.006187	0.005994	0.005832	0.005703
San Diego	Annual	MHDT	DSL	Aggregated	10	0.052776	0.007137	0.006794	0.006478	0.006183	0.005912	0.005687	0.005492	0.005318	0.00516	0.005023	0.004915
San Diego	Annual	MHDT	DSL	Aggregated	35	0.029374	0.003932	0.003918	0.003898	0.00387	0.003834	0.003811	0.00379	0.003769	0.003749	0.00373	0.003718
San Diego	Annual	HHDT	DSL	Aggregated	0	0.309837	0.089409	0.085683	0.081947	0.077743	0.074562	0.071715	0.068543	0.066269	0.064334	0.062628	0.060961
San Diego	Annual	HHDT	DSL	Aggregated	5	0.061967	0.017882	0.017137	0.016389	0.015549	0.014912	0.014343	0.013709	0.013254	0.012867	0.012526	0.012192
San Diego	Annual	HHDT	DSL	Aggregated	10	0.046532	0.015278	0.014824	0.014302	0.013632	0.013151	0.012706	0.012136	0.011743	0.011422	0.011138	0.010846
San Diego	Annual	HHDT	DSL	Aggregated	35	0.021996	0.010212	0.010179	0.010051	0.009787	0.009611	0.009428	0.009115	0.008926	0.00878	0.008646	0.008498

	14 yr 2025-2038	14 yr 2025-2038	14 yr 2025-2038	14 yr 2025-2038
	5 mph	10 mph	35 mph	0 mph (idling)
LHDT2	0.03930	0.03328	0.01504	0.19651
MHDT	0.00611	0.00525	0.00375	0.03054
HHDT	0.01309	0.01159	0.00885	0.06543

	14 yr 2039-2052	14 yr 2039-2052	14 yr 2039-2052	14 yr 2039-2052
	5 mph	10 mph	35 mph	0 mph (idling)
LHDT2	0.03093	0.02840	0.01416	0.15465
MHDT	0.00500	0.00433	0.00361	0.02499
HHDT	0.01070	0.00955	0.00796	0.05351

	2 yr 2023&2024	2 yr 2023&2024	2 yr 2023&2024	2 yr 2023&2024
	5 mph	10 mph	35 mph	0 mph (idling)
LHDT2	0.05443	0.04243	0.01700	0.27215
MHDT	0.00822	0.00697	0.00392	0.04108
HHDT	0.01751	0.01505	0.01020	0.08755

	1 yr 2022	1 yr 2022	1 yr 2022	1 yr 2022
	5 mph	10 mph	35 mph	0 mph (idling)
LHDT2	0.05986	0.04582	0.01781	0.29932
MHDT	0.06242	0.05278	0.02937	0.31208
HHDT	0.06197	0.04653	0.02200	0.30984

2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052
(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)
0.176986	0.170959	0.168219	0.165718	0.163446	0.161396	0.159954	0.158953	0.158144	0.157636	0.156281	0.155292	0.154098	0.153185	0.152115	0.151026	0.149022	0.149022	0.149022
0.035397	0.034192	0.033644	0.033144	0.032689	0.032279	0.031991	0.031791	0.031629	0.031527	0.031256	0.031058	0.03082	0.030637	0.030423	0.030205	0.029804	0.029804	0.029804
0.030932	0.030181	0.029879	0.029601	0.029347	0.029118	0.028965	0.028865	0.028788	0.028748	0.028595	0.028488	0.028352	0.028253	0.028132	0.028007	0.027763	0.027763	0.027763
0.014556	0.014378	0.014338	0.014299	0.014263	0.014229	0.014215	0.014211	0.014211	0.014221	0.014198	0.014185	0.014164	0.014152	0.014133	0.014112	0.014058	0.014058	0.014058
0.027943	0.027411	0.026928	0.026524	0.026177	0.02587	0.0256	0.025386	0.025204	0.025058	0.024932	0.024833	0.024767	0.024715	0.024703	0.0247	0.024702	0.024702	0.024702
0.005589	0.005482	0.005386	0.005305	0.005235	0.005174	0.00512	0.005077	0.005041	0.005012	0.004986	0.004967	0.004953	0.004943	0.004941	0.00494	0.00494	0.00494	0.00494
0.004818	0.00473	0.00465	0.004584	0.004528	0.004478	0.004434	0.004398	0.004367	0.004343	0.004322	0.004305	0.004294	0.004284	0.004282	0.004281	0.004282	0.004282	0.004282
0.003704	0.003688	0.003674	0.003662	0.003651	0.00364	0.003631	0.003622	0.003616	0.003611	0.003608	0.003607	0.003606	0.003605	0.003604	0.003605	0.003607	0.003607	0.003607
0.05946	0.058192	0.057249	0.056483	0.055863	0.055348	0.054846	0.054424	0.054122	0.053819	0.053547	0.053291	0.053075	0.052887	0.052825	0.052781	0.052739	0.052739	0.052739
0.011892	0.011638	0.01145	0.011297	0.011173	0.011107	0.010969	0.010885	0.010824	0.010764	0.010709	0.010658	0.010615	0.010577	0.010565	0.010556	0.010548	0.010548	0.010548
0.010582	0.01036	0.010199	0.010072	0.00997	0.009884	0.009798	0.009725	0.009674	0.009619	0.009569	0.00952	0.009476	0.009435	0.009421	0.009411	0.009401	0.009401	0.009401
0.008358	0.008241	0.008179	0.008128	0.008088	0.008057	0.008029	0.008007	0.007993	0.00798	0.007969	0.007957	0.007945	0.007933	0.007922	0.00791	0.007898	0.007898	0.007898

*Note: 2051 through 2052 data is the same as the 2050 data as 2017 EMFAC only has up to year 2050 data available.

```
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*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 10.0.1
** Lakes Environmental Software Inc.
** Date: 8/4/2021
** File: C:\Lakes\AERMOD View\Shinohara HRA\Shinohara HRA.ADI
**
```

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*****
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*****
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```
** AERMOD Control Pathway
*****
**
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```

```
CO STARTING
TITLEONE C:\Lakes\AERMOD View\Shinohara HRA\Shinohara HRA.isc
TITLETWO Shinohara DPM Concentrations - 1 year
MODELOPT DFAULT CONC
AVERTIME PERIOD
POLLUTID DPM
RUNORNOT RUN
ERRORFIL "Shinohara HRA.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 On-Site - Project Driveway to Loading Area
** PREFIX
** Length of Side = 3.28
** Configuration = Adjacent
** Emission Rate = 9.64E-06
** Elevated
** Vertical Dimension = 3.66
** SZINIT = 0.85
** Nodes = 5
** 497125.107, 3606563.656, 46.25, 0.00, 1.53
** 497116.635, 3606572.599, 46.24, 0.00, 1.53
** 497111.457, 3606587.191, 48.45, 0.00, 1.53
** 497113.340, 3606656.851, 53.51, 0.00, 1.53
```

** 497113.261, 3606777.752, 72.42, 0.00, 1.53

** -----

LOCATION	L0000223	VOLUME	497123.979	3606564.847	46.90
LOCATION	L0000224	VOLUME	497121.724	3606567.228	46.81
LOCATION	L0000225	VOLUME	497119.468	3606569.609	46.72
LOCATION	L0000226	VOLUME	497117.212	3606571.990	46.93
LOCATION	L0000227	VOLUME	497115.819	3606574.900	47.17
LOCATION	L0000228	VOLUME	497114.722	3606577.991	47.42
LOCATION	L0000229	VOLUME	497113.625	3606581.082	47.66
LOCATION	L0000230	VOLUME	497112.528	3606584.173	47.91
LOCATION	L0000231	VOLUME	497111.460	3606587.269	48.15
LOCATION	L0000232	VOLUME	497111.548	3606590.548	48.39
LOCATION	L0000233	VOLUME	497111.637	3606593.827	48.67
LOCATION	L0000234	VOLUME	497111.725	3606597.105	48.95
LOCATION	L0000235	VOLUME	497111.814	3606600.384	49.24
LOCATION	L0000236	VOLUME	497111.903	3606603.663	49.52
LOCATION	L0000237	VOLUME	497111.991	3606606.942	49.80
LOCATION	L0000238	VOLUME	497112.080	3606610.221	50.08
LOCATION	L0000239	VOLUME	497112.169	3606613.499	50.36
LOCATION	L0000240	VOLUME	497112.257	3606616.778	50.64
LOCATION	L0000241	VOLUME	497112.346	3606620.057	50.91
LOCATION	L0000242	VOLUME	497112.434	3606623.336	51.21
LOCATION	L0000243	VOLUME	497112.523	3606626.615	51.52
LOCATION	L0000244	VOLUME	497112.612	3606629.894	51.83
LOCATION	L0000245	VOLUME	497112.700	3606633.172	52.14
LOCATION	L0000246	VOLUME	497112.789	3606636.451	52.44
LOCATION	L0000247	VOLUME	497112.877	3606639.730	52.74
LOCATION	L0000248	VOLUME	497112.966	3606643.009	53.04
LOCATION	L0000249	VOLUME	497113.055	3606646.288	53.34
LOCATION	L0000250	VOLUME	497113.143	3606649.566	53.64
LOCATION	L0000251	VOLUME	497113.232	3606652.845	53.95
LOCATION	L0000252	VOLUME	497113.321	3606656.124	54.34
LOCATION	L0000253	VOLUME	497113.339	3606659.404	54.74
LOCATION	L0000254	VOLUME	497113.336	3606662.684	55.15
LOCATION	L0000255	VOLUME	497113.334	3606665.964	55.55
LOCATION	L0000256	VOLUME	497113.332	3606669.244	55.96
LOCATION	L0000257	VOLUME	497113.330	3606672.524	56.36
LOCATION	L0000258	VOLUME	497113.328	3606675.804	56.77
LOCATION	L0000259	VOLUME	497113.326	3606679.084	57.17
LOCATION	L0000260	VOLUME	497113.324	3606682.364	57.58
LOCATION	L0000261	VOLUME	497113.321	3606685.644	57.97
LOCATION	L0000262	VOLUME	497113.319	3606688.924	58.35
LOCATION	L0000263	VOLUME	497113.317	3606692.204	58.74
LOCATION	L0000264	VOLUME	497113.315	3606695.484	59.13
LOCATION	L0000265	VOLUME	497113.313	3606698.764	59.51
LOCATION	L0000266	VOLUME	497113.311	3606702.044	59.90
LOCATION	L0000267	VOLUME	497113.309	3606705.324	60.28
LOCATION	L0000268	VOLUME	497113.306	3606708.604	60.67
LOCATION	L0000269	VOLUME	497113.304	3606711.884	61.06
LOCATION	L0000270	VOLUME	497113.302	3606715.164	61.46
LOCATION	L0000271	VOLUME	497113.300	3606718.444	61.88

LOCATION	VOLUME	497113.298	3606721.724	62.30
LOCATION L0000272	VOLUME	497113.298	3606721.724	62.30
LOCATION L0000273	VOLUME	497113.296	3606725.004	62.72
LOCATION L0000274	VOLUME	497113.294	3606728.284	63.14
LOCATION L0000275	VOLUME	497113.291	3606731.564	63.56
LOCATION L0000276	VOLUME	497113.289	3606734.844	63.98
LOCATION L0000277	VOLUME	497113.287	3606738.124	64.40
LOCATION L0000278	VOLUME	497113.285	3606741.404	64.82
LOCATION L0000279	VOLUME	497113.283	3606744.684	65.25
LOCATION L0000280	VOLUME	497113.281	3606747.964	66.04
LOCATION L0000281	VOLUME	497113.279	3606751.244	66.83
LOCATION L0000282	VOLUME	497113.276	3606754.524	67.63
LOCATION L0000283	VOLUME	497113.274	3606757.804	68.42
LOCATION L0000284	VOLUME	497113.272	3606761.084	69.21
LOCATION L0000285	VOLUME	497113.270	3606764.364	70.01
LOCATION L0000286	VOLUME	497113.268	3606767.644	70.80
LOCATION L0000287	VOLUME	497113.266	3606770.924	71.59
LOCATION L0000288	VOLUME	497113.264	3606774.204	72.39
LOCATION L0000289	VOLUME	497113.261	3606777.484	72.87

** End of LINE VOLUME Source ID = SLINE1

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = SLINE2

** DESCRSRC Shinohara Lane from Project Driveway to Brandywine Ave

** PREFIX

** Length of Side = 3.28

** Configuration = Adjacent

** Emission Rate = 2.59E-06

** Elevated

** Vertical Dimension = 3.66

** SZINIT = 0.85

** Nodes = 3

** 497126.126, 3606562.573, 46.29, 0.00, 1.53

** 497128.006, 3606560.276, 46.47, 0.00, 1.53

** 497249.204, 3606559.551, 48.32, 0.00, 1.53

** -----

LOCATION	VOLUME	497127.165	3606561.304	46.94
LOCATION L0000147	VOLUME	497127.165	3606561.304	46.94
LOCATION L0000148	VOLUME	497129.958	3606560.264	47.13
LOCATION L0000149	VOLUME	497133.238	3606560.244	47.48
LOCATION L0000150	VOLUME	497136.517	3606560.225	47.83
LOCATION L0000151	VOLUME	497139.797	3606560.205	48.18
LOCATION L0000152	VOLUME	497143.077	3606560.186	48.53
LOCATION L0000153	VOLUME	497146.357	3606560.166	48.79
LOCATION L0000154	VOLUME	497149.637	3606560.146	48.69
LOCATION L0000155	VOLUME	497152.917	3606560.127	48.58
LOCATION L0000156	VOLUME	497156.197	3606560.107	48.47
LOCATION L0000157	VOLUME	497159.477	3606560.087	48.36
LOCATION L0000158	VOLUME	497162.757	3606560.068	48.26
LOCATION L0000159	VOLUME	497166.037	3606560.048	48.15
LOCATION L0000160	VOLUME	497169.317	3606560.029	48.04
LOCATION L0000161	VOLUME	497172.597	3606560.009	47.97
LOCATION L0000162	VOLUME	497175.877	3606559.989	48.02

LOCATION	VOLUME				
L0000163	497179.157	3606559.970	48.07		
L0000164	497182.437	3606559.950	48.11		
L0000165	497185.717	3606559.931	48.16		
L0000166	497188.997	3606559.911	48.21		
L0000167	497192.276	3606559.891	48.25		
L0000168	497195.556	3606559.872	48.30		
L0000169	497198.836	3606559.852	48.34		
L0000170	497202.116	3606559.832	48.36		
L0000171	497205.396	3606559.813	48.37		
L0000172	497208.676	3606559.793	48.39		
L0000173	497211.956	3606559.774	48.41		
L0000174	497215.236	3606559.754	48.43		
L0000175	497218.516	3606559.734	48.45		
L0000176	497221.796	3606559.715	48.47		
L0000177	497225.076	3606559.695	48.48		
L0000178	497228.356	3606559.676	48.46		
L0000179	497231.636	3606559.656	48.43		
L0000180	497234.916	3606559.636	48.41		
L0000181	497238.196	3606559.617	48.39		
L0000182	497241.476	3606559.597	48.37		
L0000183	497244.756	3606559.577	48.35		
L0000184	497248.035	3606559.558	48.32		

** End of LINE VOLUME Source ID = SLINE2

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = SLINE3

** DESCRSRC Brandywine Ave from Shinohara Lane to Main Street

** PREFIX

** Length of Side = 3.28

** Configuration = Adjacent

** Emission Rate = 3.64E-06

** Elevated

** Vertical Dimension = 3.66

** SZINIT = 0.85

** Nodes = 2

** 497249.977, 3606559.231, 48.32, 0.00, 1.53

** 497251.206, 3606385.124, 42.07, 0.00, 1.53

** -----

LOCATION	VOLUME				
L0000537	497249.989	3606557.591	48.25		
L0000538	497250.012	3606554.311	48.14		
L0000539	497250.035	3606551.032	48.03		
L0000540	497250.058	3606547.752	47.92		
L0000541	497250.082	3606544.472	47.81		
L0000542	497250.105	3606541.192	47.70		
L0000543	497250.128	3606537.912	47.59		
L0000544	497250.151	3606534.632	47.48		
L0000545	497250.174	3606531.352	47.37		
L0000546	497250.197	3606528.072	47.26		
L0000547	497250.220	3606524.792	47.14		
L0000548	497250.244	3606521.512	47.01		
L0000549	497250.267	3606518.232	46.89		

LOCATION	VOLUME				
L0000550	497250.290	3606514.952	46.77		
L0000551	497250.313	3606511.673	46.64		
L0000552	497250.336	3606508.393	46.52		
L0000553	497250.359	3606505.113	46.39		
L0000554	497250.382	3606501.833	46.27		
L0000555	497250.406	3606498.553	46.14		
L0000556	497250.429	3606495.273	45.99		
L0000557	497250.452	3606491.993	45.84		
L0000558	497250.475	3606488.713	45.69		
L0000559	497250.498	3606485.433	45.53		
L0000560	497250.521	3606482.153	45.38		
L0000561	497250.544	3606478.873	45.22		
L0000562	497250.567	3606475.593	45.07		
L0000563	497250.591	3606472.314	44.92		
L0000564	497250.614	3606469.034	44.76		
L0000565	497250.637	3606465.754	44.60		
L0000566	497250.660	3606462.474	44.42		
L0000567	497250.683	3606459.194	44.24		
L0000568	497250.706	3606455.914	44.07		
L0000569	497250.729	3606452.634	43.90		
L0000570	497250.753	3606449.354	43.72		
L0000571	497250.776	3606446.074	43.55		
L0000572	497250.799	3606442.794	43.38		
L0000573	497250.822	3606439.514	43.20		
L0000574	497250.845	3606436.234	43.03		
L0000575	497250.868	3606432.955	42.90		
L0000576	497250.891	3606429.675	42.76		
L0000577	497250.915	3606426.395	42.62		
L0000578	497250.938	3606423.115	42.48		
L0000579	497250.961	3606419.835	42.35		
L0000580	497250.984	3606416.555	42.21		
L0000581	497251.007	3606413.275	42.07		
L0000582	497251.030	3606409.995	41.94		
L0000583	497251.053	3606406.715	41.80		
L0000584	497251.077	3606403.435	41.79		
L0000585	497251.100	3606400.155	41.83		
L0000586	497251.123	3606396.875	41.86		
L0000587	497251.146	3606393.595	41.89		
L0000588	497251.169	3606390.316	41.93		
L0000589	497251.192	3606387.036	41.96		

```

** End of LINE VOLUME Source ID = SLINE3
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE4
** DESCRSRC Main Street from Brandywine Ave to 805 freeway
** PREFIX
** Length of Side = 3.28
** Configuration = Adjacent
** Emission Rate = 0.0000124
** Elevated
** Vertical Dimension = 3.66

```


** SZINIT = 0.85
** Nodes = 2
** 497250.550, 3606383.877, 42.07, 0.00, 1.53
** 496658.774, 3606390.392, 39.20, 0.00, 1.53

**

LOCATION	L0000357	VOLUME	497248.910	3606383.895	41.98
LOCATION	L0000358	VOLUME	497245.630	3606383.931	42.02
LOCATION	L0000359	VOLUME	497242.350	3606383.967	42.06
LOCATION	L0000360	VOLUME	497239.071	3606384.003	42.10
LOCATION	L0000361	VOLUME	497235.791	3606384.040	42.14
LOCATION	L0000362	VOLUME	497232.511	3606384.076	42.18
LOCATION	L0000363	VOLUME	497229.231	3606384.112	42.22
LOCATION	L0000364	VOLUME	497225.951	3606384.148	42.26
LOCATION	L0000365	VOLUME	497222.672	3606384.184	42.29
LOCATION	L0000366	VOLUME	497219.392	3606384.220	42.28
LOCATION	L0000367	VOLUME	497216.112	3606384.256	42.27
LOCATION	L0000368	VOLUME	497212.832	3606384.292	42.26
LOCATION	L0000369	VOLUME	497209.552	3606384.328	42.25
LOCATION	L0000370	VOLUME	497206.273	3606384.365	42.25
LOCATION	L0000371	VOLUME	497202.993	3606384.401	42.24
LOCATION	L0000372	VOLUME	497199.713	3606384.437	42.23
LOCATION	L0000373	VOLUME	497196.433	3606384.473	42.22
LOCATION	L0000374	VOLUME	497193.153	3606384.509	42.21
LOCATION	L0000375	VOLUME	497189.874	3606384.545	42.21
LOCATION	L0000376	VOLUME	497186.594	3606384.581	42.20
LOCATION	L0000377	VOLUME	497183.314	3606384.617	42.19
LOCATION	L0000378	VOLUME	497180.034	3606384.653	42.19
LOCATION	L0000379	VOLUME	497176.754	3606384.690	42.18
LOCATION	L0000380	VOLUME	497173.475	3606384.726	42.17
LOCATION	L0000381	VOLUME	497170.195	3606384.762	42.18
LOCATION	L0000382	VOLUME	497166.915	3606384.798	42.18
LOCATION	L0000383	VOLUME	497163.635	3606384.834	42.19
LOCATION	L0000384	VOLUME	497160.355	3606384.870	42.20
LOCATION	L0000385	VOLUME	497157.076	3606384.906	42.21
LOCATION	L0000386	VOLUME	497153.796	3606384.942	42.22
LOCATION	L0000387	VOLUME	497150.516	3606384.978	42.23
LOCATION	L0000388	VOLUME	497147.236	3606385.015	42.24
LOCATION	L0000389	VOLUME	497143.956	3606385.051	42.19
LOCATION	L0000390	VOLUME	497140.677	3606385.087	42.08
LOCATION	L0000391	VOLUME	497137.397	3606385.123	41.96
LOCATION	L0000392	VOLUME	497134.117	3606385.159	41.85
LOCATION	L0000393	VOLUME	497130.837	3606385.195	41.73
LOCATION	L0000394	VOLUME	497127.557	3606385.231	41.62
LOCATION	L0000395	VOLUME	497124.278	3606385.267	41.50
LOCATION	L0000396	VOLUME	497120.998	3606385.303	41.38
LOCATION	L0000397	VOLUME	497117.718	3606385.340	41.35
LOCATION	L0000398	VOLUME	497114.438	3606385.376	41.36
LOCATION	L0000399	VOLUME	497111.158	3606385.412	41.38
LOCATION	L0000400	VOLUME	497107.879	3606385.448	41.40
LOCATION	L0000401	VOLUME	497104.599	3606385.484	41.42
LOCATION	L0000402	VOLUME	497101.319	3606385.520	41.44

LOCATION	L0000403	VOLUME	497098.039	3606385.556	41.46
LOCATION	L0000404	VOLUME	497094.759	3606385.592	41.48
LOCATION	L0000405	VOLUME	497091.480	3606385.628	41.39
LOCATION	L0000406	VOLUME	497088.200	3606385.665	41.24
LOCATION	L0000407	VOLUME	497084.920	3606385.701	41.09
LOCATION	L0000408	VOLUME	497081.640	3606385.737	40.94
LOCATION	L0000409	VOLUME	497078.360	3606385.773	40.79
LOCATION	L0000410	VOLUME	497075.080	3606385.809	40.64
LOCATION	L0000411	VOLUME	497071.801	3606385.845	40.49
LOCATION	L0000412	VOLUME	497068.521	3606385.881	40.33
LOCATION	L0000413	VOLUME	497065.241	3606385.917	40.33
LOCATION	L0000414	VOLUME	497061.961	3606385.953	40.40
LOCATION	L0000415	VOLUME	497058.681	3606385.990	40.46
LOCATION	L0000416	VOLUME	497055.402	3606386.026	40.53
LOCATION	L0000417	VOLUME	497052.122	3606386.062	40.60
LOCATION	L0000418	VOLUME	497048.842	3606386.098	40.67
LOCATION	L0000419	VOLUME	497045.562	3606386.134	40.74
LOCATION	L0000420	VOLUME	497042.282	3606386.170	40.81
LOCATION	L0000421	VOLUME	497039.003	3606386.206	40.83
LOCATION	L0000422	VOLUME	497035.723	3606386.242	40.82
LOCATION	L0000423	VOLUME	497032.443	3606386.278	40.82
LOCATION	L0000424	VOLUME	497029.163	3606386.314	40.81
LOCATION	L0000425	VOLUME	497025.883	3606386.351	40.81
LOCATION	L0000426	VOLUME	497022.604	3606386.387	40.81
LOCATION	L0000427	VOLUME	497019.324	3606386.423	40.80
LOCATION	L0000428	VOLUME	497016.044	3606386.459	40.80
LOCATION	L0000429	VOLUME	497012.764	3606386.495	40.79
LOCATION	L0000430	VOLUME	497009.484	3606386.531	40.78
LOCATION	L0000431	VOLUME	497006.205	3606386.567	40.76
LOCATION	L0000432	VOLUME	497002.925	3606386.603	40.75
LOCATION	L0000433	VOLUME	496999.645	3606386.639	40.74
LOCATION	L0000434	VOLUME	496996.365	3606386.676	40.72
LOCATION	L0000435	VOLUME	496993.085	3606386.712	40.71
LOCATION	L0000436	VOLUME	496989.806	3606386.748	40.70
LOCATION	L0000437	VOLUME	496986.526	3606386.784	40.67
LOCATION	L0000438	VOLUME	496983.246	3606386.820	40.64
LOCATION	L0000439	VOLUME	496979.966	3606386.856	40.62
LOCATION	L0000440	VOLUME	496976.686	3606386.892	40.59
LOCATION	L0000441	VOLUME	496973.407	3606386.928	40.56
LOCATION	L0000442	VOLUME	496970.127	3606386.964	40.53
LOCATION	L0000443	VOLUME	496966.847	3606387.001	40.50
LOCATION	L0000444	VOLUME	496963.567	3606387.037	40.47
LOCATION	L0000445	VOLUME	496960.287	3606387.073	40.45
LOCATION	L0000446	VOLUME	496957.008	3606387.109	40.43
LOCATION	L0000447	VOLUME	496953.728	3606387.145	40.40
LOCATION	L0000448	VOLUME	496950.448	3606387.181	40.38
LOCATION	L0000449	VOLUME	496947.168	3606387.217	40.36
LOCATION	L0000450	VOLUME	496943.888	3606387.253	40.34
LOCATION	L0000451	VOLUME	496940.609	3606387.289	40.32
LOCATION	L0000452	VOLUME	496937.329	3606387.326	40.29
LOCATION	L0000453	VOLUME	496934.049	3606387.362	40.43

LOCATION	L0000454	VOLUME	496930.769	3606387.398	40.57
LOCATION	L0000455	VOLUME	496927.489	3606387.434	40.71
LOCATION	L0000456	VOLUME	496924.210	3606387.470	40.85
LOCATION	L0000457	VOLUME	496920.930	3606387.506	40.99
LOCATION	L0000458	VOLUME	496917.650	3606387.542	41.13
LOCATION	L0000459	VOLUME	496914.370	3606387.578	41.28
LOCATION	L0000460	VOLUME	496911.090	3606387.614	41.42
LOCATION	L0000461	VOLUME	496907.811	3606387.651	41.48
LOCATION	L0000462	VOLUME	496904.531	3606387.687	41.53
LOCATION	L0000463	VOLUME	496901.251	3606387.723	41.59
LOCATION	L0000464	VOLUME	496897.971	3606387.759	41.64
LOCATION	L0000465	VOLUME	496894.691	3606387.795	41.70
LOCATION	L0000466	VOLUME	496891.412	3606387.831	41.75
LOCATION	L0000467	VOLUME	496888.132	3606387.867	41.81
LOCATION	L0000468	VOLUME	496884.852	3606387.903	41.86
LOCATION	L0000469	VOLUME	496881.572	3606387.939	41.91
LOCATION	L0000470	VOLUME	496878.292	3606387.976	41.95
LOCATION	L0000471	VOLUME	496875.013	3606388.012	42.00
LOCATION	L0000472	VOLUME	496871.733	3606388.048	42.04
LOCATION	L0000473	VOLUME	496868.453	3606388.084	42.09
LOCATION	L0000474	VOLUME	496865.173	3606388.120	42.13
LOCATION	L0000475	VOLUME	496861.893	3606388.156	42.17
LOCATION	L0000476	VOLUME	496858.614	3606388.192	42.22
LOCATION	L0000477	VOLUME	496855.334	3606388.228	42.26
LOCATION	L0000478	VOLUME	496852.054	3606388.264	42.30
LOCATION	L0000479	VOLUME	496848.774	3606388.301	42.35
LOCATION	L0000480	VOLUME	496845.494	3606388.337	42.39
LOCATION	L0000481	VOLUME	496842.215	3606388.373	42.43
LOCATION	L0000482	VOLUME	496838.935	3606388.409	42.48
LOCATION	L0000483	VOLUME	496835.655	3606388.445	42.52
LOCATION	L0000484	VOLUME	496832.375	3606388.481	42.56
LOCATION	L0000485	VOLUME	496829.095	3606388.517	42.61
LOCATION	L0000486	VOLUME	496825.816	3606388.553	42.65
LOCATION	L0000487	VOLUME	496822.536	3606388.589	42.70
LOCATION	L0000488	VOLUME	496819.256	3606388.626	42.74
LOCATION	L0000489	VOLUME	496815.976	3606388.662	42.79
LOCATION	L0000490	VOLUME	496812.696	3606388.698	42.83
LOCATION	L0000491	VOLUME	496809.417	3606388.734	42.88
LOCATION	L0000492	VOLUME	496806.137	3606388.770	42.92
LOCATION	L0000493	VOLUME	496802.857	3606388.806	42.94
LOCATION	L0000494	VOLUME	496799.577	3606388.842	42.97
LOCATION	L0000495	VOLUME	496796.297	3606388.878	43.00
LOCATION	L0000496	VOLUME	496793.018	3606388.914	43.03
LOCATION	L0000497	VOLUME	496789.738	3606388.951	43.06
LOCATION	L0000498	VOLUME	496786.458	3606388.987	43.09
LOCATION	L0000499	VOLUME	496783.178	3606389.023	43.12
LOCATION	L0000500	VOLUME	496779.898	3606389.059	43.13
LOCATION	L0000501	VOLUME	496776.619	3606389.095	43.06
LOCATION	L0000502	VOLUME	496773.339	3606389.131	42.99
LOCATION	L0000503	VOLUME	496770.059	3606389.167	42.92
LOCATION	L0000504	VOLUME	496766.779	3606389.203	42.85

LOCATION	L0000505	VOLUME	496763.499	3606389.239	42.78
LOCATION	L0000506	VOLUME	496760.220	3606389.276	42.71
LOCATION	L0000507	VOLUME	496756.940	3606389.312	42.64
LOCATION	L0000508	VOLUME	496753.660	3606389.348	42.57
LOCATION	L0000509	VOLUME	496750.380	3606389.384	42.49
LOCATION	L0000510	VOLUME	496747.100	3606389.420	42.42
LOCATION	L0000511	VOLUME	496743.821	3606389.456	42.35
LOCATION	L0000512	VOLUME	496740.541	3606389.492	42.27
LOCATION	L0000513	VOLUME	496737.261	3606389.528	42.20
LOCATION	L0000514	VOLUME	496733.981	3606389.564	42.12
LOCATION	L0000515	VOLUME	496730.701	3606389.601	42.05
LOCATION	L0000516	VOLUME	496727.422	3606389.637	41.95
LOCATION	L0000517	VOLUME	496724.142	3606389.673	41.82
LOCATION	L0000518	VOLUME	496720.862	3606389.709	41.69
LOCATION	L0000519	VOLUME	496717.582	3606389.745	41.56
LOCATION	L0000520	VOLUME	496714.302	3606389.781	41.43
LOCATION	L0000521	VOLUME	496711.023	3606389.817	41.29
LOCATION	L0000522	VOLUME	496707.743	3606389.853	41.16
LOCATION	L0000523	VOLUME	496704.463	3606389.889	41.03
LOCATION	L0000524	VOLUME	496701.183	3606389.926	40.89
LOCATION	L0000525	VOLUME	496697.903	3606389.962	40.73
LOCATION	L0000526	VOLUME	496694.624	3606389.998	40.57
LOCATION	L0000527	VOLUME	496691.344	3606390.034	40.41
LOCATION	L0000528	VOLUME	496688.064	3606390.070	40.26
LOCATION	L0000529	VOLUME	496684.784	3606390.106	40.10
LOCATION	L0000530	VOLUME	496681.504	3606390.142	39.94
LOCATION	L0000531	VOLUME	496678.225	3606390.178	39.78
LOCATION	L0000532	VOLUME	496674.945	3606390.214	39.66
LOCATION	L0000533	VOLUME	496671.665	3606390.251	39.58
LOCATION	L0000534	VOLUME	496668.385	3606390.287	39.51
LOCATION	L0000535	VOLUME	496665.105	3606390.323	39.43
LOCATION	L0000536	VOLUME	496661.826	3606390.359	39.36
** End of LINE VOLUME Source ID = SLINE4					
LOCATION	STCK1	POINT	497086.160	3606629.320	54.370
** DESCRSRC Idle Position 1					
LOCATION	STCK2	POINT	497085.270	3606660.680	59.380
** DESCRSRC Idle Position 2					
LOCATION	STCK3	POINT	497085.940	3606691.590	62.580
** DESCRSRC Idle Position 3					
LOCATION	STCK4	POINT	497086.160	3606731.400	64.210
** DESCRSRC Idle Position 4					
** -----					
** Line Source Represented by Adjacent Volume Sources					
** LINE VOLUME Source ID = SLINE5					
** DESCRSRC 805 Freeway Northbound Ramp					
** PREFIX					
** Length of Side = 3.28					
** Configuration = Adjacent					
** Emission Rate = 2.86E-06					
** Elevated					
** Vertical Dimension = 3.66					

** SZINIT = 0.85
** Nodes = 3
** 496660.808, 3606392.737, 39.18, 0.00, 1.53
** 496656.048, 3606447.305, 40.21, 0.00, 1.53
** 496635.811, 3606665.221, 55.96, 0.00, 1.53

** LOCATION L0000643 VOLUME 496660.665 3606394.370 39.32
LOCATION L0000644 VOLUME 496660.380 3606397.638 39.30
LOCATION L0000645 VOLUME 496660.095 3606400.906 39.28
LOCATION L0000646 VOLUME 496659.810 3606404.173 39.26
LOCATION L0000647 VOLUME 496659.525 3606407.441 39.33
LOCATION L0000648 VOLUME 496659.240 3606410.708 39.51
LOCATION L0000649 VOLUME 496658.955 3606413.976 39.67
LOCATION L0000650 VOLUME 496658.670 3606417.244 39.83
LOCATION L0000651 VOLUME 496658.385 3606420.511 39.97
LOCATION L0000652 VOLUME 496658.100 3606423.779 40.11
LOCATION L0000653 VOLUME 496657.815 3606427.046 40.23
LOCATION L0000654 VOLUME 496657.530 3606430.314 40.34
LOCATION L0000655 VOLUME 496657.245 3606433.581 40.44
LOCATION L0000656 VOLUME 496656.960 3606436.849 40.53
LOCATION L0000657 VOLUME 496656.675 3606440.117 40.67
LOCATION L0000658 VOLUME 496656.390 3606443.384 40.80
LOCATION L0000659 VOLUME 496656.105 3606446.652 40.93
LOCATION L0000660 VOLUME 496655.805 3606449.918 41.04
LOCATION L0000661 VOLUME 496655.502 3606453.184 41.14
LOCATION L0000662 VOLUME 496655.198 3606456.450 41.24
LOCATION L0000663 VOLUME 496654.895 3606459.716 41.33
LOCATION L0000664 VOLUME 496654.592 3606462.982 41.41
LOCATION L0000665 VOLUME 496654.288 3606466.248 41.48
LOCATION L0000666 VOLUME 496653.985 3606469.514 41.57
LOCATION L0000667 VOLUME 496653.682 3606472.780 41.67
LOCATION L0000668 VOLUME 496653.379 3606476.046 41.77
LOCATION L0000669 VOLUME 496653.075 3606479.312 41.86
LOCATION L0000670 VOLUME 496652.772 3606482.578 41.96
LOCATION L0000671 VOLUME 496652.469 3606485.844 42.04
LOCATION L0000672 VOLUME 496652.165 3606489.109 42.13
LOCATION L0000673 VOLUME 496651.862 3606492.375 42.21
LOCATION L0000674 VOLUME 496651.559 3606495.641 42.29
LOCATION L0000675 VOLUME 496651.255 3606498.907 42.39
LOCATION L0000676 VOLUME 496650.952 3606502.173 42.58
LOCATION L0000677 VOLUME 496650.649 3606505.439 42.77
LOCATION L0000678 VOLUME 496650.346 3606508.705 43.03
LOCATION L0000679 VOLUME 496650.042 3606511.971 43.39
LOCATION L0000680 VOLUME 496649.739 3606515.237 43.75
LOCATION L0000681 VOLUME 496649.436 3606518.503 44.10
LOCATION L0000682 VOLUME 496649.132 3606521.769 44.44
LOCATION L0000683 VOLUME 496648.829 3606525.035 44.78
LOCATION L0000684 VOLUME 496648.526 3606528.301 45.12
LOCATION L0000685 VOLUME 496648.223 3606531.567 45.39
LOCATION L0000686 VOLUME 496647.919 3606534.833 45.64
LOCATION L0000687 VOLUME 496647.616 3606538.099 45.89

LOCATION	L0000688	VOLUME	496647.313	3606541.365	46.13
LOCATION	L0000689	VOLUME	496647.009	3606544.631	46.37
LOCATION	L0000690	VOLUME	496646.706	3606547.897	46.61
LOCATION	L0000691	VOLUME	496646.403	3606551.162	46.84
LOCATION	L0000692	VOLUME	496646.099	3606554.428	47.07
LOCATION	L0000693	VOLUME	496645.796	3606557.694	47.29
LOCATION	L0000694	VOLUME	496645.493	3606560.960	47.56
LOCATION	L0000695	VOLUME	496645.190	3606564.226	47.96
LOCATION	L0000696	VOLUME	496644.886	3606567.492	48.35
LOCATION	L0000697	VOLUME	496644.583	3606570.758	48.72
LOCATION	L0000698	VOLUME	496644.280	3606574.024	49.09
LOCATION	L0000699	VOLUME	496643.976	3606577.290	49.46
LOCATION	L0000700	VOLUME	496643.673	3606580.556	49.81
LOCATION	L0000701	VOLUME	496643.370	3606583.822	50.16
LOCATION	L0000702	VOLUME	496643.066	3606587.088	50.50
LOCATION	L0000703	VOLUME	496642.763	3606590.354	50.83
LOCATION	L0000704	VOLUME	496642.460	3606593.620	51.19
LOCATION	L0000705	VOLUME	496642.157	3606596.886	51.55
LOCATION	L0000706	VOLUME	496641.853	3606600.152	51.89
LOCATION	L0000707	VOLUME	496641.550	3606603.418	52.23
LOCATION	L0000708	VOLUME	496641.247	3606606.684	52.56
LOCATION	L0000709	VOLUME	496640.943	3606609.950	52.88
LOCATION	L0000710	VOLUME	496640.640	3606613.215	53.19
LOCATION	L0000711	VOLUME	496640.337	3606616.481	53.49
LOCATION	L0000712	VOLUME	496640.034	3606619.747	53.78
LOCATION	L0000713	VOLUME	496639.730	3606623.013	54.04
LOCATION	L0000714	VOLUME	496639.427	3606626.279	54.27
LOCATION	L0000715	VOLUME	496639.124	3606629.545	54.50
LOCATION	L0000716	VOLUME	496638.820	3606632.811	54.71
LOCATION	L0000717	VOLUME	496638.517	3606636.077	54.93
LOCATION	L0000718	VOLUME	496638.214	3606639.343	55.14
LOCATION	L0000719	VOLUME	496637.910	3606642.609	55.34
LOCATION	L0000720	VOLUME	496637.607	3606645.875	55.54
LOCATION	L0000721	VOLUME	496637.304	3606649.141	55.73
LOCATION	L0000722	VOLUME	496637.001	3606652.407	55.92
LOCATION	L0000723	VOLUME	496636.697	3606655.673	56.04
LOCATION	L0000724	VOLUME	496636.394	3606658.939	56.15
LOCATION	L0000725	VOLUME	496636.091	3606662.205	56.26

** End of LINE VOLUME Source ID = SLINE5

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = SLINE6

** DESCRSRC Main Street from 805 NB Ramp to SB Ramp

** PREFIX

** Length of Side = 3.28

** Configuration = Adjacent

** Emission Rate = 2.17E-06

** Elevated

** Vertical Dimension = 3.66

** SZINIT = 0.85

** Nodes = 2

** 496657.542, 3606389.788, 39.21, 0.00, 1.53
** 496535.861, 3606385.384, 39.14, 0.00, 1.53

** -----
LOCATION L0000726 VOLUME 496655.903 3606389.729 39.23
LOCATION L0000727 VOLUME 496652.625 3606389.610 39.16
LOCATION L0000728 VOLUME 496649.347 3606389.492 39.21
LOCATION L0000729 VOLUME 496646.069 3606389.373 39.53
LOCATION L0000730 VOLUME 496642.791 3606389.254 39.85
LOCATION L0000731 VOLUME 496639.514 3606389.136 40.15
LOCATION L0000732 VOLUME 496636.236 3606389.017 40.46
LOCATION L0000733 VOLUME 496632.958 3606388.898 40.75
LOCATION L0000734 VOLUME 496629.680 3606388.780 41.04
LOCATION L0000735 VOLUME 496626.402 3606388.661 41.33
LOCATION L0000736 VOLUME 496623.124 3606388.542 41.55
LOCATION L0000737 VOLUME 496619.846 3606388.424 41.66
LOCATION L0000738 VOLUME 496616.569 3606388.305 41.77
LOCATION L0000739 VOLUME 496613.291 3606388.186 41.88
LOCATION L0000740 VOLUME 496610.013 3606388.068 41.99
LOCATION L0000741 VOLUME 496606.735 3606387.949 42.09
LOCATION L0000742 VOLUME 496603.457 3606387.830 42.19
LOCATION L0000743 VOLUME 496600.179 3606387.712 42.29
LOCATION L0000744 VOLUME 496596.901 3606387.593 42.32
LOCATION L0000745 VOLUME 496593.624 3606387.475 42.28
LOCATION L0000746 VOLUME 496590.346 3606387.356 42.23
LOCATION L0000747 VOLUME 496587.068 3606387.237 42.18
LOCATION L0000748 VOLUME 496583.790 3606387.119 42.14
LOCATION L0000749 VOLUME 496580.512 3606387.000 42.09
LOCATION L0000750 VOLUME 496577.234 3606386.881 42.05
LOCATION L0000751 VOLUME 496573.956 3606386.763 42.00
LOCATION L0000752 VOLUME 496570.679 3606386.644 41.79
LOCATION L0000753 VOLUME 496567.401 3606386.525 41.41
LOCATION L0000754 VOLUME 496564.123 3606386.407 41.03
LOCATION L0000755 VOLUME 496560.845 3606386.288 40.66
LOCATION L0000756 VOLUME 496557.567 3606386.169 40.30
LOCATION L0000757 VOLUME 496554.289 3606386.051 39.94
LOCATION L0000758 VOLUME 496551.012 3606385.932 39.60
LOCATION L0000759 VOLUME 496547.734 3606385.814 39.26
LOCATION L0000760 VOLUME 496544.456 3606385.695 39.15
LOCATION L0000761 VOLUME 496541.178 3606385.576 39.26
LOCATION L0000762 VOLUME 496537.900 3606385.458 39.37

** End of LINE VOLUME Source ID = SLINE6

** -----
** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = SLINE7

** DESCRSRC 805 SB Ramp

** PREFIX

** Length of Side = 3.28

** Configuration = Adjacent

** Emission Rate = 2.58E-06

** Elevated

** Vertical Dimension = 3.66

** SZINIT = 0.85
** Nodes = 2
** 496537.129, 3606382.811, 39.16, 0.00, 1.53
** 496567.248, 3606137.652, 39.35, 0.00, 1.53

LOCATION	L0000763	VOLUME	496537.329	3606381.184	39.30
LOCATION	L0000764	VOLUME	496537.729	3606377.928	39.24
LOCATION	L0000765	VOLUME	496538.129	3606374.673	39.17
LOCATION	L0000766	VOLUME	496538.529	3606371.417	39.08
LOCATION	L0000767	VOLUME	496538.929	3606368.161	39.00
LOCATION	L0000768	VOLUME	496539.329	3606364.906	38.92
LOCATION	L0000769	VOLUME	496539.729	3606361.650	38.84
LOCATION	L0000770	VOLUME	496540.129	3606358.395	38.76
LOCATION	L0000771	VOLUME	496540.529	3606355.139	38.69
LOCATION	L0000772	VOLUME	496540.929	3606351.884	38.62
LOCATION	L0000773	VOLUME	496541.329	3606348.628	38.55
LOCATION	L0000774	VOLUME	496541.729	3606345.373	38.49
LOCATION	L0000775	VOLUME	496542.129	3606342.117	38.48
LOCATION	L0000776	VOLUME	496542.529	3606338.862	38.48
LOCATION	L0000777	VOLUME	496542.929	3606335.606	38.50
LOCATION	L0000778	VOLUME	496543.329	3606332.351	38.51
LOCATION	L0000779	VOLUME	496543.728	3606329.095	38.53
LOCATION	L0000780	VOLUME	496544.128	3606325.840	38.55
LOCATION	L0000781	VOLUME	496544.528	3606322.584	38.58
LOCATION	L0000782	VOLUME	496544.928	3606319.329	38.61
LOCATION	L0000783	VOLUME	496545.328	3606316.073	38.64
LOCATION	L0000784	VOLUME	496545.728	3606312.818	38.69
LOCATION	L0000785	VOLUME	496546.128	3606309.562	38.77
LOCATION	L0000786	VOLUME	496546.528	3606306.307	38.91
LOCATION	L0000787	VOLUME	496546.928	3606303.051	39.04
LOCATION	L0000788	VOLUME	496547.328	3606299.795	39.17
LOCATION	L0000789	VOLUME	496547.728	3606296.540	39.30
LOCATION	L0000790	VOLUME	496548.128	3606293.284	39.42
LOCATION	L0000791	VOLUME	496548.528	3606290.029	39.54
LOCATION	L0000792	VOLUME	496548.928	3606286.773	39.65
LOCATION	L0000793	VOLUME	496549.328	3606283.518	39.76
LOCATION	L0000794	VOLUME	496549.728	3606280.262	39.87
LOCATION	L0000795	VOLUME	496550.128	3606277.007	39.99
LOCATION	L0000796	VOLUME	496550.528	3606273.751	40.09
LOCATION	L0000797	VOLUME	496550.928	3606270.496	40.20
LOCATION	L0000798	VOLUME	496551.328	3606267.240	40.30
LOCATION	L0000799	VOLUME	496551.728	3606263.985	40.39
LOCATION	L0000800	VOLUME	496552.128	3606260.729	40.48
LOCATION	L0000801	VOLUME	496552.528	3606257.474	40.57
LOCATION	L0000802	VOLUME	496552.928	3606254.218	40.65
LOCATION	L0000803	VOLUME	496553.328	3606250.963	40.67
LOCATION	L0000804	VOLUME	496553.727	3606247.707	40.59
LOCATION	L0000805	VOLUME	496554.127	3606244.452	40.50
LOCATION	L0000806	VOLUME	496554.527	3606241.196	40.42
LOCATION	L0000807	VOLUME	496554.927	3606237.941	40.34
LOCATION	L0000808	VOLUME	496555.327	3606234.685	40.27

LOCATION	L0000809	VOLUME	496555.727	3606231.429	40.19
LOCATION	L0000810	VOLUME	496556.127	3606228.174	40.12
LOCATION	L0000811	VOLUME	496556.527	3606224.918	40.05
LOCATION	L0000812	VOLUME	496556.927	3606221.663	39.99
LOCATION	L0000813	VOLUME	496557.327	3606218.407	39.91
LOCATION	L0000814	VOLUME	496557.727	3606215.152	39.83
LOCATION	L0000815	VOLUME	496558.127	3606211.896	39.76
LOCATION	L0000816	VOLUME	496558.527	3606208.641	39.68
LOCATION	L0000817	VOLUME	496558.927	3606205.385	39.62
LOCATION	L0000818	VOLUME	496559.327	3606202.130	39.55
LOCATION	L0000819	VOLUME	496559.727	3606198.874	39.49
LOCATION	L0000820	VOLUME	496560.127	3606195.619	39.43
LOCATION	L0000821	VOLUME	496560.527	3606192.363	39.38
LOCATION	L0000822	VOLUME	496560.927	3606189.108	39.32
LOCATION	L0000823	VOLUME	496561.327	3606185.852	39.27
LOCATION	L0000824	VOLUME	496561.727	3606182.597	39.22
LOCATION	L0000825	VOLUME	496562.127	3606179.341	39.17
LOCATION	L0000826	VOLUME	496562.527	3606176.086	39.13
LOCATION	L0000827	VOLUME	496562.927	3606172.830	39.09
LOCATION	L0000828	VOLUME	496563.326	3606169.575	39.05
LOCATION	L0000829	VOLUME	496563.726	3606166.319	39.02
LOCATION	L0000830	VOLUME	496564.126	3606163.063	39.00
LOCATION	L0000831	VOLUME	496564.526	3606159.808	38.97
LOCATION	L0000832	VOLUME	496564.926	3606156.552	38.98
LOCATION	L0000833	VOLUME	496565.326	3606153.297	38.99
LOCATION	L0000834	VOLUME	496565.726	3606150.041	39.00
LOCATION	L0000835	VOLUME	496566.126	3606146.786	39.01
LOCATION	L0000836	VOLUME	496566.526	3606143.530	39.03
LOCATION	L0000837	VOLUME	496566.926	3606140.275	39.04

** End of LINE VOLUME Source ID = SLINE7

** Source Parameters **

** LINE VOLUME Source ID = SLINE1

SRCPARAM	L0000223	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000224	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000225	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000226	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000227	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000228	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000229	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000230	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000231	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000232	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000233	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000234	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000235	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000236	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000237	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000238	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000239	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000240	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000241	0.0000001439	0.00	1.53	0.85

SRCPARAM	L0000242	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000243	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000244	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000245	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000246	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000247	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000248	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000249	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000250	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000251	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000252	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000253	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000254	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000255	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000256	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000257	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000258	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000259	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000260	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000261	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000262	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000263	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000264	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000265	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000266	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000267	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000268	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000269	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000270	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000271	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000272	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000273	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000274	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000275	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000276	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000277	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000278	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000279	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000280	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000281	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000282	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000283	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000284	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000285	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000286	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000287	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000288	0.0000001439	0.00	1.53	0.85
SRCPARAM	L0000289	0.0000001439	0.00	1.53	0.85

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** LINE VOLUME Source ID = SLINE2

SRCPARAM	L0000147	0.00000006816	0.00	1.53	0.85
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SRCPARAM	L0000148	0.00000006816	0.00	1.53	0.85
SRCPARAM	L0000149	0.00000006816	0.00	1.53	0.85
SRCPARAM	L0000150	0.00000006816	0.00	1.53	0.85
SRCPARAM	L0000151	0.00000006816	0.00	1.53	0.85
SRCPARAM	L0000152	0.00000006816	0.00	1.53	0.85
SRCPARAM	L0000153	0.00000006816	0.00	1.53	0.85
SRCPARAM	L0000154	0.00000006816	0.00	1.53	0.85
SRCPARAM	L0000155	0.00000006816	0.00	1.53	0.85
SRCPARAM	L0000156	0.00000006816	0.00	1.53	0.85
SRCPARAM	L0000157	0.00000006816	0.00	1.53	0.85
SRCPARAM	L0000158	0.00000006816	0.00	1.53	0.85
SRCPARAM	L0000159	0.00000006816	0.00	1.53	0.85
SRCPARAM	L0000160	0.00000006816	0.00	1.53	0.85
SRCPARAM	L0000161	0.00000006816	0.00	1.53	0.85
SRCPARAM	L0000162	0.00000006816	0.00	1.53	0.85
SRCPARAM	L0000163	0.00000006816	0.00	1.53	0.85
SRCPARAM	L0000164	0.00000006816	0.00	1.53	0.85
SRCPARAM	L0000165	0.00000006816	0.00	1.53	0.85
SRCPARAM	L0000166	0.00000006816	0.00	1.53	0.85
SRCPARAM	L0000167	0.00000006816	0.00	1.53	0.85
SRCPARAM	L0000168	0.00000006816	0.00	1.53	0.85
SRCPARAM	L0000169	0.00000006816	0.00	1.53	0.85
SRCPARAM	L0000170	0.00000006816	0.00	1.53	0.85
SRCPARAM	L0000171	0.00000006816	0.00	1.53	0.85
SRCPARAM	L0000172	0.00000006816	0.00	1.53	0.85
SRCPARAM	L0000173	0.00000006816	0.00	1.53	0.85
SRCPARAM	L0000174	0.00000006816	0.00	1.53	0.85
SRCPARAM	L0000175	0.00000006816	0.00	1.53	0.85
SRCPARAM	L0000176	0.00000006816	0.00	1.53	0.85
SRCPARAM	L0000177	0.00000006816	0.00	1.53	0.85
SRCPARAM	L0000178	0.00000006816	0.00	1.53	0.85
SRCPARAM	L0000179	0.00000006816	0.00	1.53	0.85
SRCPARAM	L0000180	0.00000006816	0.00	1.53	0.85
SRCPARAM	L0000181	0.00000006816	0.00	1.53	0.85
SRCPARAM	L0000182	0.00000006816	0.00	1.53	0.85
SRCPARAM	L0000183	0.00000006816	0.00	1.53	0.85
SRCPARAM	L0000184	0.00000006816	0.00	1.53	0.85

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**	LINE VOLUME Source ID = SLINE3				
SRCPARAM	L0000537	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000538	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000539	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000540	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000541	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000542	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000543	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000544	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000545	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000546	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000547	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000548	0.00000006868	0.00	1.53	0.85

SRCPARAM	L0000549	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000550	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000551	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000552	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000553	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000554	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000555	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000556	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000557	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000558	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000559	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000560	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000561	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000562	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000563	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000564	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000565	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000566	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000567	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000568	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000569	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000570	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000571	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000572	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000573	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000574	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000575	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000576	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000577	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000578	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000579	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000580	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000581	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000582	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000583	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000584	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000585	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000586	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000587	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000588	0.00000006868	0.00	1.53	0.85
SRCPARAM	L0000589	0.00000006868	0.00	1.53	0.85

**

 ** LINE VOLUME Source ID = SLINE4

SRCPARAM	L0000357	0.00000006889	0.00	1.53	0.85
SRCPARAM	L0000358	0.00000006889	0.00	1.53	0.85
SRCPARAM	L0000359	0.00000006889	0.00	1.53	0.85
SRCPARAM	L0000360	0.00000006889	0.00	1.53	0.85
SRCPARAM	L0000361	0.00000006889	0.00	1.53	0.85
SRCPARAM	L0000362	0.00000006889	0.00	1.53	0.85
SRCPARAM	L0000363	0.00000006889	0.00	1.53	0.85
SRCPARAM	L0000364	0.00000006889	0.00	1.53	0.85

SRCPARAM	L0000518	0.00000006889	0.00	1.53	0.85
SRCPARAM	L0000519	0.00000006889	0.00	1.53	0.85
SRCPARAM	L0000520	0.00000006889	0.00	1.53	0.85
SRCPARAM	L0000521	0.00000006889	0.00	1.53	0.85
SRCPARAM	L0000522	0.00000006889	0.00	1.53	0.85
SRCPARAM	L0000523	0.00000006889	0.00	1.53	0.85
SRCPARAM	L0000524	0.00000006889	0.00	1.53	0.85
SRCPARAM	L0000525	0.00000006889	0.00	1.53	0.85
SRCPARAM	L0000526	0.00000006889	0.00	1.53	0.85
SRCPARAM	L0000527	0.00000006889	0.00	1.53	0.85
SRCPARAM	L0000528	0.00000006889	0.00	1.53	0.85
SRCPARAM	L0000529	0.00000006889	0.00	1.53	0.85
SRCPARAM	L0000530	0.00000006889	0.00	1.53	0.85
SRCPARAM	L0000531	0.00000006889	0.00	1.53	0.85
SRCPARAM	L0000532	0.00000006889	0.00	1.53	0.85
SRCPARAM	L0000533	0.00000006889	0.00	1.53	0.85
SRCPARAM	L0000534	0.00000006889	0.00	1.53	0.85
SRCPARAM	L0000535	0.00000006889	0.00	1.53	0.85
SRCPARAM	L0000536	0.00000006889	0.00	1.53	0.85

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SRCPARAM	STCK1	0.0000296	3.658	366.000	51.90000	0.100
SRCPARAM	STCK2	0.0000296	3.658	366.000	51.90000	0.100
SRCPARAM	STCK3	0.0000296	3.658	366.000	551.90000	0.100
SRCPARAM	STCK4	0.0000296	3.658	366.000	51.90000	0.100

** LINE VOLUME Source ID = SLINES5

SRCPARAM	L0000643	0.00000003446	0.00	1.53	0.85
SRCPARAM	L0000644	0.00000003446	0.00	1.53	0.85
SRCPARAM	L0000645	0.00000003446	0.00	1.53	0.85
SRCPARAM	L0000646	0.00000003446	0.00	1.53	0.85
SRCPARAM	L0000647	0.00000003446	0.00	1.53	0.85
SRCPARAM	L0000648	0.00000003446	0.00	1.53	0.85
SRCPARAM	L0000649	0.00000003446	0.00	1.53	0.85
SRCPARAM	L0000650	0.00000003446	0.00	1.53	0.85
SRCPARAM	L0000651	0.00000003446	0.00	1.53	0.85
SRCPARAM	L0000652	0.00000003446	0.00	1.53	0.85
SRCPARAM	L0000653	0.00000003446	0.00	1.53	0.85
SRCPARAM	L0000654	0.00000003446	0.00	1.53	0.85
SRCPARAM	L0000655	0.00000003446	0.00	1.53	0.85
SRCPARAM	L0000656	0.00000003446	0.00	1.53	0.85
SRCPARAM	L0000657	0.00000003446	0.00	1.53	0.85
SRCPARAM	L0000658	0.00000003446	0.00	1.53	0.85
SRCPARAM	L0000659	0.00000003446	0.00	1.53	0.85
SRCPARAM	L0000660	0.00000003446	0.00	1.53	0.85
SRCPARAM	L0000661	0.00000003446	0.00	1.53	0.85
SRCPARAM	L0000662	0.00000003446	0.00	1.53	0.85
SRCPARAM	L0000663	0.00000003446	0.00	1.53	0.85
SRCPARAM	L0000664	0.00000003446	0.00	1.53	0.85
SRCPARAM	L0000665	0.00000003446	0.00	1.53	0.85
SRCPARAM	L0000666	0.00000003446	0.00	1.53	0.85
SRCPARAM	L0000667	0.00000003446	0.00	1.53	0.85
SRCPARAM	L0000668	0.00000003446	0.00	1.53	0.85

SRCPARAM	L0000720	0.00000003446	0.00	1.53	0.85
SRCPARAM	L0000721	0.00000003446	0.00	1.53	0.85
SRCPARAM	L0000722	0.00000003446	0.00	1.53	0.85
SRCPARAM	L0000723	0.00000003446	0.00	1.53	0.85
SRCPARAM	L0000724	0.00000003446	0.00	1.53	0.85
SRCPARAM	L0000725	0.00000003446	0.00	1.53	0.85

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** LINE VOLUME Source ID = SLINE6

SRCPARAM	L0000726	0.00000005865	0.00	1.53	0.85
SRCPARAM	L0000727	0.00000005865	0.00	1.53	0.85
SRCPARAM	L0000728	0.00000005865	0.00	1.53	0.85
SRCPARAM	L0000729	0.00000005865	0.00	1.53	0.85
SRCPARAM	L0000730	0.00000005865	0.00	1.53	0.85
SRCPARAM	L0000731	0.00000005865	0.00	1.53	0.85
SRCPARAM	L0000732	0.00000005865	0.00	1.53	0.85
SRCPARAM	L0000733	0.00000005865	0.00	1.53	0.85
SRCPARAM	L0000734	0.00000005865	0.00	1.53	0.85
SRCPARAM	L0000735	0.00000005865	0.00	1.53	0.85
SRCPARAM	L0000736	0.00000005865	0.00	1.53	0.85
SRCPARAM	L0000737	0.00000005865	0.00	1.53	0.85
SRCPARAM	L0000738	0.00000005865	0.00	1.53	0.85
SRCPARAM	L0000739	0.00000005865	0.00	1.53	0.85
SRCPARAM	L0000740	0.00000005865	0.00	1.53	0.85
SRCPARAM	L0000741	0.00000005865	0.00	1.53	0.85
SRCPARAM	L0000742	0.00000005865	0.00	1.53	0.85
SRCPARAM	L0000743	0.00000005865	0.00	1.53	0.85
SRCPARAM	L0000744	0.00000005865	0.00	1.53	0.85
SRCPARAM	L0000745	0.00000005865	0.00	1.53	0.85
SRCPARAM	L0000746	0.00000005865	0.00	1.53	0.85
SRCPARAM	L0000747	0.00000005865	0.00	1.53	0.85
SRCPARAM	L0000748	0.00000005865	0.00	1.53	0.85
SRCPARAM	L0000749	0.00000005865	0.00	1.53	0.85
SRCPARAM	L0000750	0.00000005865	0.00	1.53	0.85
SRCPARAM	L0000751	0.00000005865	0.00	1.53	0.85
SRCPARAM	L0000752	0.00000005865	0.00	1.53	0.85
SRCPARAM	L0000753	0.00000005865	0.00	1.53	0.85
SRCPARAM	L0000754	0.00000005865	0.00	1.53	0.85
SRCPARAM	L0000755	0.00000005865	0.00	1.53	0.85
SRCPARAM	L0000756	0.00000005865	0.00	1.53	0.85
SRCPARAM	L0000757	0.00000005865	0.00	1.53	0.85
SRCPARAM	L0000758	0.00000005865	0.00	1.53	0.85
SRCPARAM	L0000759	0.00000005865	0.00	1.53	0.85
SRCPARAM	L0000760	0.00000005865	0.00	1.53	0.85
SRCPARAM	L0000761	0.00000005865	0.00	1.53	0.85
SRCPARAM	L0000762	0.00000005865	0.00	1.53	0.85

** -----

** LINE VOLUME Source ID = SLINE7

SRCPARAM	L0000763	0.0000000344	0.00	1.53	0.85
SRCPARAM	L0000764	0.0000000344	0.00	1.53	0.85
SRCPARAM	L0000765	0.0000000344	0.00	1.53	0.85
SRCPARAM	L0000766	0.0000000344	0.00	1.53	0.85

BUILDLLEN	STCK4	199.35	209.63	213.75	211.76	203.33	188.72
BUILDLLEN	STCK4	202.46	211.62	214.35	210.68	201.08	185.37
BUILDLLEN	STCK4	164.25	138.47	108.47	134.62	161.13	183.02
BUILDLLEN	STCK4	199.35	209.63	213.75	211.76	203.33	188.72
XBADJ	STCK1	-61.02	-75.09	-86.87	-96.02	-102.25	-105.37
XBADJ	STCK1	-105.29	-102.01	-95.63	-116.76	-136.70	-152.49
XBADJ	STCK1	-163.64	-169.83	-170.85	-166.68	-157.45	-143.43
XBADJ	STCK1	-141.44	-136.53	-127.48	-114.66	-98.83	-80.00
XBADJ	STCK1	-58.97	-36.46	-12.84	-17.86	-24.43	-30.53
XBADJ	STCK1	-35.71	-39.80	-42.90	-45.08	-45.88	-45.29
XBADJ	STCK2	-91.75	-104.25	-113.59	-119.47	-121.72	-120.28
XBADJ	STCK2	-115.18	-106.58	-94.74	-110.44	-125.14	-136.04
XBADJ	STCK2	-142.80	-145.23	-143.25	-136.91	-126.41	-112.07
XBADJ	STCK2	-110.71	-107.37	-100.77	-91.21	-79.36	-65.09
XBADJ	STCK2	-49.08	-31.89	-13.73	-24.18	-35.99	-46.98
XBADJ	STCK2	-56.55	-64.40	-70.51	-74.85	-76.92	-76.65
XBADJ	STCK3	-122.31	-133.53	-140.69	-143.58	-142.10	-136.31
XBADJ	STCK3	-126.38	-112.61	-95.41	-105.73	-115.20	-121.16
XBADJ	STCK3	-123.45	-121.98	-116.81	-108.09	-96.08	-81.16
XBADJ	STCK3	-80.16	-78.09	-73.66	-67.10	-58.97	-49.06
XBADJ	STCK3	-37.88	-25.86	-13.06	-28.89	-45.93	-61.86
XBADJ	STCK3	-75.91	-87.65	-96.94	-103.67	-107.24	-107.56
XBADJ	STCK4	-161.55	-171.01	-175.28	-174.22	-167.86	-156.41
XBADJ	STCK4	-140.20	-119.73	-95.63	-99.03	-101.79	-101.45
XBADJ	STCK4	-98.03	-91.63	-82.45	-70.76	-56.92	-41.35
XBADJ	STCK4	-40.91	-40.61	-39.08	-36.46	-33.22	-28.96
XBADJ	STCK4	-24.05	-18.73	-12.84	-35.59	-59.34	-81.57
XBADJ	STCK4	-101.33	-118.00	-131.31	-141.00	-146.41	-147.37
YBADJ	STCK1	49.45	56.14	60.98	63.97	65.01	63.97
YBADJ	STCK1	60.80	55.78	49.07	40.21	30.72	20.30
YBADJ	STCK1	9.32	-1.71	-12.68	-23.16	-32.78	-41.40
YBADJ	STCK1	-49.45	-56.14	-60.98	-63.97	-65.01	-63.97
YBADJ	STCK1	-60.80	-55.78	-49.07	-40.21	-30.72	-20.30
YBADJ	STCK1	-9.32	1.71	12.68	23.16	32.78	41.40
YBADJ	STCK2	43.13	44.57	44.53	43.13	40.42	36.37
YBADJ	STCK2	31.03	24.75	17.71	9.48	1.56	-6.41
YBADJ	STCK2	-14.13	-21.18	-27.59	-33.05	-37.34	-40.51
YBADJ	STCK2	-43.13	-44.57	-44.53	-43.13	-40.42	-36.37
YBADJ	STCK2	-31.03	-24.75	-17.71	-9.48	-1.56	6.41
YBADJ	STCK2	14.13	21.18	27.59	33.05	37.34	40.51
YBADJ	STCK3	38.42	34.63	29.65	23.77	17.17	9.94
YBADJ	STCK3	2.21	-5.58	-13.20	-21.08	-27.72	-33.51
YBADJ	STCK3	-38.24	-41.56	-43.63	-44.25	-43.37	-41.17
YBADJ	STCK3	-38.42	-34.63	-29.65	-23.77	-17.17	-9.94

YBADJ	STCK3	-2.21	5.58	13.20	21.08	27.72	33.51
YBADJ	STCK3	38.24	41.56	43.63	44.25	43.37	41.17
YBADJ	STCK4	31.72	21.22	9.94	-1.65	-13.19	-24.43
YBADJ	STCK4	-35.12	-44.75	-53.01	-60.32	-65.20	-68.10
YBADJ	STCK4	-68.88	-67.32	-63.72	-58.07	-50.50	-41.39
YBADJ	STCK4	-31.72	-21.22	-9.94	1.65	13.19	24.43
YBADJ	STCK4	35.12	44.75	53.01	60.32	65.20	68.10
YBADJ	STCK4	68.88	67.32	63.72	58.07	50.50	41.39

SRCGROUP ALL

SO FINISHED

**

** AERMOD Receptor Pathway

**

**

RE STARTING

INCLUDED "Shinohara HRA.rou"

RE FINISHED

**

** AERMOD Meteorology Pathway

**

**

ME STARTING

SURFFILE C:\Users\cateh\OneDrive\Desktop\HRA\722904.SFC

PROFFILE C:\Users\cateh\OneDrive\Desktop\HRA\722904.PFL

SURFDATA 3178 2009

UAIRDATA 3190 2009

PROFBASE 157.0 METERS

ME FINISHED

**

** AERMOD Output Pathway

**

**

OU STARTING

** Auto-Generated Plotfiles

PLOTFILE PERIOD ALL "Shinohara HRA.AD\PE00GALL.PLT" 31

SUMMFILE "Shinohara HRA.sum"

OU FINISHED

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

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

A Total of 0 Fatal Error Message(s)
A Total of 4 Warning Message(s)
A Total of 0 Informational Message(s)

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

***** WARNING MESSAGES *****

SO W320	1041	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	1042	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	1043	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	1044	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS

*** SETUP Finishes Successfully ***

**Output Options Selected:

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

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

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 157.00 ; 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 = 4.5 MB of RAM.

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

**Detailed Error/Message File: Shinohara HRA.err
**File for Summary of Results: Shinohara HRA.sum

*** AERMOD - VERSION 21112 ***
*** AERMET - VERSION 14134 ***

*** C:\Lakes\AERMOD View\Shinohara HRA\Shinohara HRA.isc
*** Shinohara DPM Concentrations - 1 year

*** 08/04/21
*** 13:08:43
PAGE 3

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** 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	EMISSION RATE SCALAR VARY BY
L0000223	0	0.14390E-06	497124.0	3606564.8	46.9	0.00	1.53	0.85	NO	
L0000224	0	0.14390E-06	497121.7	3606567.2	46.8	0.00	1.53	0.85	NO	
L0000225	0	0.14390E-06	497119.5	3606569.6	46.7	0.00	1.53	0.85	NO	
L0000226	0	0.14390E-06	497117.2	3606572.0	46.9	0.00	1.53	0.85	NO	
L0000227	0	0.14390E-06	497115.8	3606574.9	47.2	0.00	1.53	0.85	NO	
L0000228	0	0.14390E-06	497114.7	3606578.0	47.4	0.00	1.53	0.85	NO	
L0000229	0	0.14390E-06	497113.6	3606581.1	47.7	0.00	1.53	0.85	NO	
L0000230	0	0.14390E-06	497112.5	3606584.2	47.9	0.00	1.53	0.85	NO	
L0000231	0	0.14390E-06	497111.5	3606587.3	48.1	0.00	1.53	0.85	NO	
L0000232	0	0.14390E-06	497111.5	3606590.5	48.4	0.00	1.53	0.85	NO	
L0000233	0	0.14390E-06	497111.6	3606593.8	48.7	0.00	1.53	0.85	NO	
L0000234	0	0.14390E-06	497111.7	3606597.1	48.9	0.00	1.53	0.85	NO	
L0000235	0	0.14390E-06	497111.8	3606600.4	49.2	0.00	1.53	0.85	NO	
L0000236	0	0.14390E-06	497111.9	3606603.7	49.5	0.00	1.53	0.85	NO	
L0000237	0	0.14390E-06	497112.0	3606606.9	49.8	0.00	1.53	0.85	NO	
L0000238	0	0.14390E-06	497112.1	3606610.2	50.1	0.00	1.53	0.85	NO	
L0000239	0	0.14390E-06	497112.2	3606613.5	50.4	0.00	1.53	0.85	NO	
L0000240	0	0.14390E-06	497112.3	3606616.8	50.6	0.00	1.53	0.85	NO	
L0000241	0	0.14390E-06	497112.3	3606620.1	50.9	0.00	1.53	0.85	NO	
L0000242	0	0.14390E-06	497112.4	3606623.3	51.2	0.00	1.53	0.85	NO	
L0000243	0	0.14390E-06	497112.5	3606626.6	51.5	0.00	1.53	0.85	NO	
L0000244	0	0.14390E-06	497112.6	3606629.9	51.8	0.00	1.53	0.85	NO	
L0000245	0	0.14390E-06	497112.7	3606633.2	52.1	0.00	1.53	0.85	NO	
L0000246	0	0.14390E-06	497112.8	3606636.5	52.4	0.00	1.53	0.85	NO	
L0000247	0	0.14390E-06	497112.9	3606639.7	52.7	0.00	1.53	0.85	NO	
L0000248	0	0.14390E-06	497113.0	3606643.0	53.0	0.00	1.53	0.85	NO	
L0000249	0	0.14390E-06	497113.1	3606646.3	53.3	0.00	1.53	0.85	NO	
L0000250	0	0.14390E-06	497113.1	3606649.6	53.6	0.00	1.53	0.85	NO	
L0000251	0	0.14390E-06	497113.2	3606652.8	53.9	0.00	1.53	0.85	NO	
L0000252	0	0.14390E-06	497113.3	3606656.1	54.3	0.00	1.53	0.85	NO	
L0000253	0	0.14390E-06	497113.3	3606659.4	54.7	0.00	1.53	0.85	NO	
L0000254	0	0.14390E-06	497113.3	3606662.7	55.1	0.00	1.53	0.85	NO	
L0000255	0	0.14390E-06	497113.3	3606666.0	55.5	0.00	1.53	0.85	NO	
L0000256	0	0.14390E-06	497113.3	3606669.2	56.0	0.00	1.53	0.85	NO	
L0000257	0	0.14390E-06	497113.3	3606672.5	56.4	0.00	1.53	0.85	NO	
L0000258	0	0.14390E-06	497113.3	3606675.8	56.8	0.00	1.53	0.85	NO	
L0000259	0	0.14390E-06	497113.3	3606679.1	57.2	0.00	1.53	0.85	NO	
L0000260	0	0.14390E-06	497113.3	3606682.4	57.6	0.00	1.53	0.85	NO	

L0000261	0	0.14390E-06	497113.3	3606685.6	58.0	0.00	1.53	0.85	NO
L0000262	0	0.14390E-06	497113.3	3606688.9	58.3	0.00	1.53	0.85	NO

*** AERMOD - VERSION 21112 ***
*** AERMET - VERSION 14134 ***

*** C:\Lakes\AERMOD View\Shinohara HRA\Shinohara HRA.isc
*** Shinohara DPM Concentrations - 1 year

*** 08/04/21
*** 13:08:43
PAGE 4

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** 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	EMISSION RATE SCALAR VARY BY
L0000263	0	0.14390E-06	497113.3	3606692.2	58.7	0.00	1.53	0.85	NO	
L0000264	0	0.14390E-06	497113.3	3606695.5	59.1	0.00	1.53	0.85	NO	
L0000265	0	0.14390E-06	497113.3	3606698.8	59.5	0.00	1.53	0.85	NO	
L0000266	0	0.14390E-06	497113.3	3606702.0	59.9	0.00	1.53	0.85	NO	
L0000267	0	0.14390E-06	497113.3	3606705.3	60.3	0.00	1.53	0.85	NO	
L0000268	0	0.14390E-06	497113.3	3606708.6	60.7	0.00	1.53	0.85	NO	
L0000269	0	0.14390E-06	497113.3	3606711.9	61.1	0.00	1.53	0.85	NO	
L0000270	0	0.14390E-06	497113.3	3606715.2	61.5	0.00	1.53	0.85	NO	
L0000271	0	0.14390E-06	497113.3	3606718.4	61.9	0.00	1.53	0.85	NO	
L0000272	0	0.14390E-06	497113.3	3606721.7	62.3	0.00	1.53	0.85	NO	
L0000273	0	0.14390E-06	497113.3	3606725.0	62.7	0.00	1.53	0.85	NO	
L0000274	0	0.14390E-06	497113.3	3606728.3	63.1	0.00	1.53	0.85	NO	
L0000275	0	0.14390E-06	497113.3	3606731.6	63.6	0.00	1.53	0.85	NO	
L0000276	0	0.14390E-06	497113.3	3606734.8	64.0	0.00	1.53	0.85	NO	
L0000277	0	0.14390E-06	497113.3	3606738.1	64.4	0.00	1.53	0.85	NO	
L0000278	0	0.14390E-06	497113.3	3606741.4	64.8	0.00	1.53	0.85	NO	
L0000279	0	0.14390E-06	497113.3	3606744.7	65.2	0.00	1.53	0.85	NO	
L0000280	0	0.14390E-06	497113.3	3606748.0	66.0	0.00	1.53	0.85	NO	
L0000281	0	0.14390E-06	497113.3	3606751.2	66.8	0.00	1.53	0.85	NO	
L0000282	0	0.14390E-06	497113.3	3606754.5	67.6	0.00	1.53	0.85	NO	
L0000283	0	0.14390E-06	497113.3	3606757.8	68.4	0.00	1.53	0.85	NO	
L0000284	0	0.14390E-06	497113.3	3606761.1	69.2	0.00	1.53	0.85	NO	
L0000285	0	0.14390E-06	497113.3	3606764.4	70.0	0.00	1.53	0.85	NO	
L0000286	0	0.14390E-06	497113.3	3606767.6	70.8	0.00	1.53	0.85	NO	
L0000287	0	0.14390E-06	497113.3	3606770.9	71.6	0.00	1.53	0.85	NO	
L0000288	0	0.14390E-06	497113.3	3606774.2	72.4	0.00	1.53	0.85	NO	
L0000289	0	0.14390E-06	497113.3	3606777.5	72.9	0.00	1.53	0.85	NO	
L0000147	0	0.68160E-07	497127.2	3606561.3	46.9	0.00	1.53	0.85	NO	
L0000148	0	0.68160E-07	497130.0	3606560.3	47.1	0.00	1.53	0.85	NO	
L0000149	0	0.68160E-07	497133.2	3606560.2	47.5	0.00	1.53	0.85	NO	
L0000150	0	0.68160E-07	497136.5	3606560.2	47.8	0.00	1.53	0.85	NO	
L0000151	0	0.68160E-07	497139.8	3606560.2	48.2	0.00	1.53	0.85	NO	
L0000152	0	0.68160E-07	497143.1	3606560.2	48.5	0.00	1.53	0.85	NO	
L0000153	0	0.68160E-07	497146.4	3606560.2	48.8	0.00	1.53	0.85	NO	
L0000154	0	0.68160E-07	497149.6	3606560.1	48.7	0.00	1.53	0.85	NO	
L0000155	0	0.68160E-07	497152.9	3606560.1	48.6	0.00	1.53	0.85	NO	
L0000156	0	0.68160E-07	497156.2	3606560.1	48.5	0.00	1.53	0.85	NO	
L0000157	0	0.68160E-07	497159.5	3606560.1	48.4	0.00	1.53	0.85	NO	

L0000158	0	0.68160E-07	497162.8	3606560.1	48.3	0.00	1.53	0.85	NO
L0000159	0	0.68160E-07	497166.0	3606560.0	48.1	0.00	1.53	0.85	NO

*** AERMOD - VERSION 21112 ***
*** AERMET - VERSION 14134 ***

*** C:\Lakes\AERMOD View\Shinohara HRA\Shinohara HRA.isc
*** Shinohara DPM Concentrations - 1 year

*** 08/04/21
*** 13:08:43
PAGE 5

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** 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	EMISSION RATE SCALAR VARY BY
L0000160	0	0.68160E-07	497169.3	3606560.0	48.0	0.00	1.53	0.85	NO	
L0000161	0	0.68160E-07	497172.6	3606560.0	48.0	0.00	1.53	0.85	NO	
L0000162	0	0.68160E-07	497175.9	3606560.0	48.0	0.00	1.53	0.85	NO	
L0000163	0	0.68160E-07	497179.2	3606560.0	48.1	0.00	1.53	0.85	NO	
L0000164	0	0.68160E-07	497182.4	3606559.9	48.1	0.00	1.53	0.85	NO	
L0000165	0	0.68160E-07	497185.7	3606559.9	48.2	0.00	1.53	0.85	NO	
L0000166	0	0.68160E-07	497189.0	3606559.9	48.2	0.00	1.53	0.85	NO	
L0000167	0	0.68160E-07	497192.3	3606559.9	48.2	0.00	1.53	0.85	NO	
L0000168	0	0.68160E-07	497195.6	3606559.9	48.3	0.00	1.53	0.85	NO	
L0000169	0	0.68160E-07	497198.8	3606559.9	48.3	0.00	1.53	0.85	NO	
L0000170	0	0.68160E-07	497202.1	3606559.8	48.4	0.00	1.53	0.85	NO	
L0000171	0	0.68160E-07	497205.4	3606559.8	48.4	0.00	1.53	0.85	NO	
L0000172	0	0.68160E-07	497208.7	3606559.8	48.4	0.00	1.53	0.85	NO	
L0000173	0	0.68160E-07	497212.0	3606559.8	48.4	0.00	1.53	0.85	NO	
L0000174	0	0.68160E-07	497215.2	3606559.8	48.4	0.00	1.53	0.85	NO	
L0000175	0	0.68160E-07	497218.5	3606559.7	48.4	0.00	1.53	0.85	NO	
L0000176	0	0.68160E-07	497221.8	3606559.7	48.5	0.00	1.53	0.85	NO	
L0000177	0	0.68160E-07	497225.1	3606559.7	48.5	0.00	1.53	0.85	NO	
L0000178	0	0.68160E-07	497228.4	3606559.7	48.5	0.00	1.53	0.85	NO	
L0000179	0	0.68160E-07	497231.6	3606559.7	48.4	0.00	1.53	0.85	NO	
L0000180	0	0.68160E-07	497234.9	3606559.6	48.4	0.00	1.53	0.85	NO	
L0000181	0	0.68160E-07	497238.2	3606559.6	48.4	0.00	1.53	0.85	NO	
L0000182	0	0.68160E-07	497241.5	3606559.6	48.4	0.00	1.53	0.85	NO	
L0000183	0	0.68160E-07	497244.8	3606559.6	48.3	0.00	1.53	0.85	NO	
L0000184	0	0.68160E-07	497248.0	3606559.6	48.3	0.00	1.53	0.85	NO	
L0000537	0	0.68680E-07	497250.0	3606557.6	48.2	0.00	1.53	0.85	NO	
L0000538	0	0.68680E-07	497250.0	3606554.3	48.1	0.00	1.53	0.85	NO	
L0000539	0	0.68680E-07	497250.0	3606551.0	48.0	0.00	1.53	0.85	NO	
L0000540	0	0.68680E-07	497250.1	3606547.8	47.9	0.00	1.53	0.85	NO	
L0000541	0	0.68680E-07	497250.1	3606544.5	47.8	0.00	1.53	0.85	NO	
L0000542	0	0.68680E-07	497250.1	3606541.2	47.7	0.00	1.53	0.85	NO	
L0000543	0	0.68680E-07	497250.1	3606537.9	47.6	0.00	1.53	0.85	NO	
L0000544	0	0.68680E-07	497250.2	3606534.6	47.5	0.00	1.53	0.85	NO	
L0000545	0	0.68680E-07	497250.2	3606531.4	47.4	0.00	1.53	0.85	NO	
L0000546	0	0.68680E-07	497250.2	3606528.1	47.3	0.00	1.53	0.85	NO	
L0000547	0	0.68680E-07	497250.2	3606524.8	47.1	0.00	1.53	0.85	NO	
L0000548	0	0.68680E-07	497250.2	3606521.5	47.0	0.00	1.53	0.85	NO	
L0000549	0	0.68680E-07	497250.3	3606518.2	46.9	0.00	1.53	0.85	NO	

L0000550	0	0.68680E-07	497250.3	3606515.0	46.8	0.00	1.53	0.85	NO
L0000551	0	0.68680E-07	497250.3	3606511.7	46.6	0.00	1.53	0.85	NO

*** AERMOD - VERSION 21112 ***
*** AERMET - VERSION 14134 ***

*** C:\Lakes\AERMOD View\Shinohara HRA\Shinohara HRA.isc
*** Shinohara DPM Concentrations - 1 year

*** 08/04/21
*** 13:08:43
PAGE 6

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** 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	EMISSION RATE SCALAR VARY BY
L0000552	0	0.68680E-07	497250.3	3606508.4	46.5	0.00	1.53	0.85	NO	
L0000553	0	0.68680E-07	497250.4	3606505.1	46.4	0.00	1.53	0.85	NO	
L0000554	0	0.68680E-07	497250.4	3606501.8	46.3	0.00	1.53	0.85	NO	
L0000555	0	0.68680E-07	497250.4	3606498.6	46.1	0.00	1.53	0.85	NO	
L0000556	0	0.68680E-07	497250.4	3606495.3	46.0	0.00	1.53	0.85	NO	
L0000557	0	0.68680E-07	497250.5	3606492.0	45.8	0.00	1.53	0.85	NO	
L0000558	0	0.68680E-07	497250.5	3606488.7	45.7	0.00	1.53	0.85	NO	
L0000559	0	0.68680E-07	497250.5	3606485.4	45.5	0.00	1.53	0.85	NO	
L0000560	0	0.68680E-07	497250.5	3606482.2	45.4	0.00	1.53	0.85	NO	
L0000561	0	0.68680E-07	497250.5	3606478.9	45.2	0.00	1.53	0.85	NO	
L0000562	0	0.68680E-07	497250.6	3606475.6	45.1	0.00	1.53	0.85	NO	
L0000563	0	0.68680E-07	497250.6	3606472.3	44.9	0.00	1.53	0.85	NO	
L0000564	0	0.68680E-07	497250.6	3606469.0	44.8	0.00	1.53	0.85	NO	
L0000565	0	0.68680E-07	497250.6	3606465.8	44.6	0.00	1.53	0.85	NO	
L0000566	0	0.68680E-07	497250.7	3606462.5	44.4	0.00	1.53	0.85	NO	
L0000567	0	0.68680E-07	497250.7	3606459.2	44.2	0.00	1.53	0.85	NO	
L0000568	0	0.68680E-07	497250.7	3606455.9	44.1	0.00	1.53	0.85	NO	
L0000569	0	0.68680E-07	497250.7	3606452.6	43.9	0.00	1.53	0.85	NO	
L0000570	0	0.68680E-07	497250.8	3606449.4	43.7	0.00	1.53	0.85	NO	
L0000571	0	0.68680E-07	497250.8	3606446.1	43.5	0.00	1.53	0.85	NO	
L0000572	0	0.68680E-07	497250.8	3606442.8	43.4	0.00	1.53	0.85	NO	
L0000573	0	0.68680E-07	497250.8	3606439.5	43.2	0.00	1.53	0.85	NO	
L0000574	0	0.68680E-07	497250.8	3606436.2	43.0	0.00	1.53	0.85	NO	
L0000575	0	0.68680E-07	497250.9	3606433.0	42.9	0.00	1.53	0.85	NO	
L0000576	0	0.68680E-07	497250.9	3606429.7	42.8	0.00	1.53	0.85	NO	
L0000577	0	0.68680E-07	497250.9	3606426.4	42.6	0.00	1.53	0.85	NO	
L0000578	0	0.68680E-07	497250.9	3606423.1	42.5	0.00	1.53	0.85	NO	
L0000579	0	0.68680E-07	497251.0	3606419.8	42.3	0.00	1.53	0.85	NO	
L0000580	0	0.68680E-07	497251.0	3606416.6	42.2	0.00	1.53	0.85	NO	
L0000581	0	0.68680E-07	497251.0	3606413.3	42.1	0.00	1.53	0.85	NO	
L0000582	0	0.68680E-07	497251.0	3606410.0	41.9	0.00	1.53	0.85	NO	
L0000583	0	0.68680E-07	497251.1	3606406.7	41.8	0.00	1.53	0.85	NO	
L0000584	0	0.68680E-07	497251.1	3606403.4	41.8	0.00	1.53	0.85	NO	
L0000585	0	0.68680E-07	497251.1	3606400.2	41.8	0.00	1.53	0.85	NO	
L0000586	0	0.68680E-07	497251.1	3606396.9	41.9	0.00	1.53	0.85	NO	
L0000587	0	0.68680E-07	497251.1	3606393.6	41.9	0.00	1.53	0.85	NO	
L0000588	0	0.68680E-07	497251.2	3606390.3	41.9	0.00	1.53	0.85	NO	
L0000589	0	0.68680E-07	497251.2	3606387.0	42.0	0.00	1.53	0.85	NO	

L0000357	0	0.68890E-07	497248.9	3606383.9	42.0	0.00	1.53	0.85	NO
L0000358	0	0.68890E-07	497245.6	3606383.9	42.0	0.00	1.53	0.85	NO

*** AERMOD - VERSION 21112 ***
*** AERMET - VERSION 14134 ***

*** C:\Lakes\AERMOD View\Shinohara HRA\Shinohara HRA.isc
*** Shinohara DPM Concentrations - 1 year

*** 08/04/21
*** 13:08:43
PAGE 7

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** 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	EMISSION RATE SCALAR VARY BY
L0000359	0	0.68890E-07	497242.3	3606384.0	42.1	0.00	1.53	0.85	NO	
L0000360	0	0.68890E-07	497239.1	3606384.0	42.1	0.00	1.53	0.85	NO	
L0000361	0	0.68890E-07	497235.8	3606384.0	42.1	0.00	1.53	0.85	NO	
L0000362	0	0.68890E-07	497232.5	3606384.1	42.2	0.00	1.53	0.85	NO	
L0000363	0	0.68890E-07	497229.2	3606384.1	42.2	0.00	1.53	0.85	NO	
L0000364	0	0.68890E-07	497226.0	3606384.1	42.3	0.00	1.53	0.85	NO	
L0000365	0	0.68890E-07	497222.7	3606384.2	42.3	0.00	1.53	0.85	NO	
L0000366	0	0.68890E-07	497219.4	3606384.2	42.3	0.00	1.53	0.85	NO	
L0000367	0	0.68890E-07	497216.1	3606384.3	42.3	0.00	1.53	0.85	NO	
L0000368	0	0.68890E-07	497212.8	3606384.3	42.3	0.00	1.53	0.85	NO	
L0000369	0	0.68890E-07	497209.6	3606384.3	42.2	0.00	1.53	0.85	NO	
L0000370	0	0.68890E-07	497206.3	3606384.4	42.2	0.00	1.53	0.85	NO	
L0000371	0	0.68890E-07	497203.0	3606384.4	42.2	0.00	1.53	0.85	NO	
L0000372	0	0.68890E-07	497199.7	3606384.4	42.2	0.00	1.53	0.85	NO	
L0000373	0	0.68890E-07	497196.4	3606384.5	42.2	0.00	1.53	0.85	NO	
L0000374	0	0.68890E-07	497193.2	3606384.5	42.2	0.00	1.53	0.85	NO	
L0000375	0	0.68890E-07	497189.9	3606384.5	42.2	0.00	1.53	0.85	NO	
L0000376	0	0.68890E-07	497186.6	3606384.6	42.2	0.00	1.53	0.85	NO	
L0000377	0	0.68890E-07	497183.3	3606384.6	42.2	0.00	1.53	0.85	NO	
L0000378	0	0.68890E-07	497180.0	3606384.7	42.2	0.00	1.53	0.85	NO	
L0000379	0	0.68890E-07	497176.8	3606384.7	42.2	0.00	1.53	0.85	NO	
L0000380	0	0.68890E-07	497173.5	3606384.7	42.2	0.00	1.53	0.85	NO	
L0000381	0	0.68890E-07	497170.2	3606384.8	42.2	0.00	1.53	0.85	NO	
L0000382	0	0.68890E-07	497166.9	3606384.8	42.2	0.00	1.53	0.85	NO	
L0000383	0	0.68890E-07	497163.6	3606384.8	42.2	0.00	1.53	0.85	NO	
L0000384	0	0.68890E-07	497160.4	3606384.9	42.2	0.00	1.53	0.85	NO	
L0000385	0	0.68890E-07	497157.1	3606384.9	42.2	0.00	1.53	0.85	NO	
L0000386	0	0.68890E-07	497153.8	3606384.9	42.2	0.00	1.53	0.85	NO	
L0000387	0	0.68890E-07	497150.5	3606385.0	42.2	0.00	1.53	0.85	NO	
L0000388	0	0.68890E-07	497147.2	3606385.0	42.2	0.00	1.53	0.85	NO	
L0000389	0	0.68890E-07	497144.0	3606385.1	42.2	0.00	1.53	0.85	NO	
L0000390	0	0.68890E-07	497140.7	3606385.1	42.1	0.00	1.53	0.85	NO	
L0000391	0	0.68890E-07	497137.4	3606385.1	42.0	0.00	1.53	0.85	NO	
L0000392	0	0.68890E-07	497134.1	3606385.2	41.8	0.00	1.53	0.85	NO	
L0000393	0	0.68890E-07	497130.8	3606385.2	41.7	0.00	1.53	0.85	NO	
L0000394	0	0.68890E-07	497127.6	3606385.2	41.6	0.00	1.53	0.85	NO	
L0000395	0	0.68890E-07	497124.3	3606385.3	41.5	0.00	1.53	0.85	NO	
L0000396	0	0.68890E-07	497121.0	3606385.3	41.4	0.00	1.53	0.85	NO	

L0000397	0	0.68890E-07	497117.7	3606385.3	41.3	0.00	1.53	0.85	NO
L0000398	0	0.68890E-07	497114.4	3606385.4	41.4	0.00	1.53	0.85	NO

*** AERMOD - VERSION 21112 ***
*** AERMET - VERSION 14134 ***

*** C:\Lakes\AERMOD View\Shinohara HRA\Shinohara HRA.isc
*** Shinohara DPM Concentrations - 1 year

*** 08/04/21
*** 13:08:43
PAGE 8

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** 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	EMISSION RATE SCALAR VARY BY
L0000399	0	0.68890E-07	497111.2	3606385.4	41.4	0.00	1.53	0.85	NO	
L0000400	0	0.68890E-07	497107.9	3606385.4	41.4	0.00	1.53	0.85	NO	
L0000401	0	0.68890E-07	497104.6	3606385.5	41.4	0.00	1.53	0.85	NO	
L0000402	0	0.68890E-07	497101.3	3606385.5	41.4	0.00	1.53	0.85	NO	
L0000403	0	0.68890E-07	497098.0	3606385.6	41.5	0.00	1.53	0.85	NO	
L0000404	0	0.68890E-07	497094.8	3606385.6	41.5	0.00	1.53	0.85	NO	
L0000405	0	0.68890E-07	497091.5	3606385.6	41.4	0.00	1.53	0.85	NO	
L0000406	0	0.68890E-07	497088.2	3606385.7	41.2	0.00	1.53	0.85	NO	
L0000407	0	0.68890E-07	497084.9	3606385.7	41.1	0.00	1.53	0.85	NO	
L0000408	0	0.68890E-07	497081.6	3606385.7	40.9	0.00	1.53	0.85	NO	
L0000409	0	0.68890E-07	497078.4	3606385.8	40.8	0.00	1.53	0.85	NO	
L0000410	0	0.68890E-07	497075.1	3606385.8	40.6	0.00	1.53	0.85	NO	
L0000411	0	0.68890E-07	497071.8	3606385.8	40.5	0.00	1.53	0.85	NO	
L0000412	0	0.68890E-07	497068.5	3606385.9	40.3	0.00	1.53	0.85	NO	
L0000413	0	0.68890E-07	497065.2	3606385.9	40.3	0.00	1.53	0.85	NO	
L0000414	0	0.68890E-07	497062.0	3606386.0	40.4	0.00	1.53	0.85	NO	
L0000415	0	0.68890E-07	497058.7	3606386.0	40.5	0.00	1.53	0.85	NO	
L0000416	0	0.68890E-07	497055.4	3606386.0	40.5	0.00	1.53	0.85	NO	
L0000417	0	0.68890E-07	497052.1	3606386.1	40.6	0.00	1.53	0.85	NO	
L0000418	0	0.68890E-07	497048.8	3606386.1	40.7	0.00	1.53	0.85	NO	
L0000419	0	0.68890E-07	497045.6	3606386.1	40.7	0.00	1.53	0.85	NO	
L0000420	0	0.68890E-07	497042.3	3606386.2	40.8	0.00	1.53	0.85	NO	
L0000421	0	0.68890E-07	497039.0	3606386.2	40.8	0.00	1.53	0.85	NO	
L0000422	0	0.68890E-07	497035.7	3606386.2	40.8	0.00	1.53	0.85	NO	
L0000423	0	0.68890E-07	497032.4	3606386.3	40.8	0.00	1.53	0.85	NO	
L0000424	0	0.68890E-07	497029.2	3606386.3	40.8	0.00	1.53	0.85	NO	
L0000425	0	0.68890E-07	497025.9	3606386.4	40.8	0.00	1.53	0.85	NO	
L0000426	0	0.68890E-07	497022.6	3606386.4	40.8	0.00	1.53	0.85	NO	
L0000427	0	0.68890E-07	497019.3	3606386.4	40.8	0.00	1.53	0.85	NO	
L0000428	0	0.68890E-07	497016.0	3606386.5	40.8	0.00	1.53	0.85	NO	
L0000429	0	0.68890E-07	497012.8	3606386.5	40.8	0.00	1.53	0.85	NO	
L0000430	0	0.68890E-07	497009.5	3606386.5	40.8	0.00	1.53	0.85	NO	
L0000431	0	0.68890E-07	497006.2	3606386.6	40.8	0.00	1.53	0.85	NO	
L0000432	0	0.68890E-07	497002.9	3606386.6	40.8	0.00	1.53	0.85	NO	
L0000433	0	0.68890E-07	496999.6	3606386.6	40.7	0.00	1.53	0.85	NO	
L0000434	0	0.68890E-07	496996.4	3606386.7	40.7	0.00	1.53	0.85	NO	
L0000435	0	0.68890E-07	496993.1	3606386.7	40.7	0.00	1.53	0.85	NO	
L0000436	0	0.68890E-07	496989.8	3606386.7	40.7	0.00	1.53	0.85	NO	

L0000437	0	0.68890E-07	496986.5	3606386.8	40.7	0.00	1.53	0.85	NO
L0000438	0	0.68890E-07	496983.2	3606386.8	40.6	0.00	1.53	0.85	NO

*** AERMOD - VERSION 21112 ***
*** AERMET - VERSION 14134 ***

*** C:\Lakes\AERMOD View\Shinohara HRA\Shinohara HRA.isc
*** Shinohara DPM Concentrations - 1 year

*** 08/04/21
*** 13:08:43
PAGE 9

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** 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	EMISSION RATE SCALAR VARY BY
L0000439	0	0.68890E-07	496980.0	3606386.9	40.6	0.00	1.53	0.85	NO	
L0000440	0	0.68890E-07	496976.7	3606386.9	40.6	0.00	1.53	0.85	NO	
L0000441	0	0.68890E-07	496973.4	3606386.9	40.6	0.00	1.53	0.85	NO	
L0000442	0	0.68890E-07	496970.1	3606387.0	40.5	0.00	1.53	0.85	NO	
L0000443	0	0.68890E-07	496966.8	3606387.0	40.5	0.00	1.53	0.85	NO	
L0000444	0	0.68890E-07	496963.6	3606387.0	40.5	0.00	1.53	0.85	NO	
L0000445	0	0.68890E-07	496960.3	3606387.1	40.4	0.00	1.53	0.85	NO	
L0000446	0	0.68890E-07	496957.0	3606387.1	40.4	0.00	1.53	0.85	NO	
L0000447	0	0.68890E-07	496953.7	3606387.1	40.4	0.00	1.53	0.85	NO	
L0000448	0	0.68890E-07	496950.4	3606387.2	40.4	0.00	1.53	0.85	NO	
L0000449	0	0.68890E-07	496947.2	3606387.2	40.4	0.00	1.53	0.85	NO	
L0000450	0	0.68890E-07	496943.9	3606387.3	40.3	0.00	1.53	0.85	NO	
L0000451	0	0.68890E-07	496940.6	3606387.3	40.3	0.00	1.53	0.85	NO	
L0000452	0	0.68890E-07	496937.3	3606387.3	40.3	0.00	1.53	0.85	NO	
L0000453	0	0.68890E-07	496934.0	3606387.4	40.4	0.00	1.53	0.85	NO	
L0000454	0	0.68890E-07	496930.8	3606387.4	40.6	0.00	1.53	0.85	NO	
L0000455	0	0.68890E-07	496927.5	3606387.4	40.7	0.00	1.53	0.85	NO	
L0000456	0	0.68890E-07	496924.2	3606387.5	40.8	0.00	1.53	0.85	NO	
L0000457	0	0.68890E-07	496920.9	3606387.5	41.0	0.00	1.53	0.85	NO	
L0000458	0	0.68890E-07	496917.6	3606387.5	41.1	0.00	1.53	0.85	NO	
L0000459	0	0.68890E-07	496914.4	3606387.6	41.3	0.00	1.53	0.85	NO	
L0000460	0	0.68890E-07	496911.1	3606387.6	41.4	0.00	1.53	0.85	NO	
L0000461	0	0.68890E-07	496907.8	3606387.7	41.5	0.00	1.53	0.85	NO	
L0000462	0	0.68890E-07	496904.5	3606387.7	41.5	0.00	1.53	0.85	NO	
L0000463	0	0.68890E-07	496901.3	3606387.7	41.6	0.00	1.53	0.85	NO	
L0000464	0	0.68890E-07	496898.0	3606387.8	41.6	0.00	1.53	0.85	NO	
L0000465	0	0.68890E-07	496894.7	3606387.8	41.7	0.00	1.53	0.85	NO	
L0000466	0	0.68890E-07	496891.4	3606387.8	41.8	0.00	1.53	0.85	NO	
L0000467	0	0.68890E-07	496888.1	3606387.9	41.8	0.00	1.53	0.85	NO	
L0000468	0	0.68890E-07	496884.9	3606387.9	41.9	0.00	1.53	0.85	NO	
L0000469	0	0.68890E-07	496881.6	3606387.9	41.9	0.00	1.53	0.85	NO	
L0000470	0	0.68890E-07	496878.3	3606388.0	41.9	0.00	1.53	0.85	NO	
L0000471	0	0.68890E-07	496875.0	3606388.0	42.0	0.00	1.53	0.85	NO	
L0000472	0	0.68890E-07	496871.7	3606388.0	42.0	0.00	1.53	0.85	NO	
L0000473	0	0.68890E-07	496868.5	3606388.1	42.1	0.00	1.53	0.85	NO	
L0000474	0	0.68890E-07	496865.2	3606388.1	42.1	0.00	1.53	0.85	NO	
L0000475	0	0.68890E-07	496861.9	3606388.2	42.2	0.00	1.53	0.85	NO	
L0000476	0	0.68890E-07	496858.6	3606388.2	42.2	0.00	1.53	0.85	NO	

L0000477	0	0.68890E-07	496855.3	3606388.2	42.3	0.00	1.53	0.85	NO
L0000478	0	0.68890E-07	496852.1	3606388.3	42.3	0.00	1.53	0.85	NO

*** AERMOD - VERSION 21112 ***
*** AERMET - VERSION 14134 ***

*** C:\Lakes\AERMOD View\Shinohara HRA\Shinohara HRA.isc
*** Shinohara DPM Concentrations - 1 year

*** 08/04/21
*** 13:08:43
PAGE 10

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** 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	EMISSION RATE SCALAR VARY BY
L0000479	0	0.68890E-07	496848.8	3606388.3	42.3	0.00	1.53	0.85	NO	
L0000480	0	0.68890E-07	496845.5	3606388.3	42.4	0.00	1.53	0.85	NO	
L0000481	0	0.68890E-07	496842.2	3606388.4	42.4	0.00	1.53	0.85	NO	
L0000482	0	0.68890E-07	496838.9	3606388.4	42.5	0.00	1.53	0.85	NO	
L0000483	0	0.68890E-07	496835.7	3606388.4	42.5	0.00	1.53	0.85	NO	
L0000484	0	0.68890E-07	496832.4	3606388.5	42.6	0.00	1.53	0.85	NO	
L0000485	0	0.68890E-07	496829.1	3606388.5	42.6	0.00	1.53	0.85	NO	
L0000486	0	0.68890E-07	496825.8	3606388.6	42.6	0.00	1.53	0.85	NO	
L0000487	0	0.68890E-07	496822.5	3606388.6	42.7	0.00	1.53	0.85	NO	
L0000488	0	0.68890E-07	496819.3	3606388.6	42.7	0.00	1.53	0.85	NO	
L0000489	0	0.68890E-07	496816.0	3606388.7	42.8	0.00	1.53	0.85	NO	
L0000490	0	0.68890E-07	496812.7	3606388.7	42.8	0.00	1.53	0.85	NO	
L0000491	0	0.68890E-07	496809.4	3606388.7	42.9	0.00	1.53	0.85	NO	
L0000492	0	0.68890E-07	496806.1	3606388.8	42.9	0.00	1.53	0.85	NO	
L0000493	0	0.68890E-07	496802.9	3606388.8	42.9	0.00	1.53	0.85	NO	
L0000494	0	0.68890E-07	496799.6	3606388.8	43.0	0.00	1.53	0.85	NO	
L0000495	0	0.68890E-07	496796.3	3606388.9	43.0	0.00	1.53	0.85	NO	
L0000496	0	0.68890E-07	496793.0	3606388.9	43.0	0.00	1.53	0.85	NO	
L0000497	0	0.68890E-07	496789.7	3606389.0	43.1	0.00	1.53	0.85	NO	
L0000498	0	0.68890E-07	496786.5	3606389.0	43.1	0.00	1.53	0.85	NO	
L0000499	0	0.68890E-07	496783.2	3606389.0	43.1	0.00	1.53	0.85	NO	
L0000500	0	0.68890E-07	496779.9	3606389.1	43.1	0.00	1.53	0.85	NO	
L0000501	0	0.68890E-07	496776.6	3606389.1	43.1	0.00	1.53	0.85	NO	
L0000502	0	0.68890E-07	496773.3	3606389.1	43.0	0.00	1.53	0.85	NO	
L0000503	0	0.68890E-07	496770.1	3606389.2	42.9	0.00	1.53	0.85	NO	
L0000504	0	0.68890E-07	496766.8	3606389.2	42.8	0.00	1.53	0.85	NO	
L0000505	0	0.68890E-07	496763.5	3606389.2	42.8	0.00	1.53	0.85	NO	
L0000506	0	0.68890E-07	496760.2	3606389.3	42.7	0.00	1.53	0.85	NO	
L0000507	0	0.68890E-07	496756.9	3606389.3	42.6	0.00	1.53	0.85	NO	
L0000508	0	0.68890E-07	496753.7	3606389.3	42.6	0.00	1.53	0.85	NO	
L0000509	0	0.68890E-07	496750.4	3606389.4	42.5	0.00	1.53	0.85	NO	
L0000510	0	0.68890E-07	496747.1	3606389.4	42.4	0.00	1.53	0.85	NO	
L0000511	0	0.68890E-07	496743.8	3606389.5	42.3	0.00	1.53	0.85	NO	
L0000512	0	0.68890E-07	496740.5	3606389.5	42.3	0.00	1.53	0.85	NO	
L0000513	0	0.68890E-07	496737.3	3606389.5	42.2	0.00	1.53	0.85	NO	
L0000514	0	0.68890E-07	496734.0	3606389.6	42.1	0.00	1.53	0.85	NO	
L0000515	0	0.68890E-07	496730.7	3606389.6	42.0	0.00	1.53	0.85	NO	
L0000516	0	0.68890E-07	496727.4	3606389.6	41.9	0.00	1.53	0.85	NO	

L0000517	0	0.68890E-07	496724.1	3606389.7	41.8	0.00	1.53	0.85	NO
L0000518	0	0.68890E-07	496720.9	3606389.7	41.7	0.00	1.53	0.85	NO

*** AERMOD - VERSION 21112 ***
*** AERMET - VERSION 14134 ***

*** C:\Lakes\AERMOD View\Shinohara HRA\Shinohara HRA.isc
*** Shinohara DPM Concentrations - 1 year

*** 08/04/21
*** 13:08:43
PAGE 11

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** 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	EMISSION RATE SCALAR VARY BY
L0000519	0	0.68890E-07	496717.6	3606389.7	41.6	0.00	1.53	0.85	NO	
L0000520	0	0.68890E-07	496714.3	3606389.8	41.4	0.00	1.53	0.85	NO	
L0000521	0	0.68890E-07	496711.0	3606389.8	41.3	0.00	1.53	0.85	NO	
L0000522	0	0.68890E-07	496707.7	3606389.9	41.2	0.00	1.53	0.85	NO	
L0000523	0	0.68890E-07	496704.5	3606389.9	41.0	0.00	1.53	0.85	NO	
L0000524	0	0.68890E-07	496701.2	3606389.9	40.9	0.00	1.53	0.85	NO	
L0000525	0	0.68890E-07	496697.9	3606390.0	40.7	0.00	1.53	0.85	NO	
L0000526	0	0.68890E-07	496694.6	3606390.0	40.6	0.00	1.53	0.85	NO	
L0000527	0	0.68890E-07	496691.3	3606390.0	40.4	0.00	1.53	0.85	NO	
L0000528	0	0.68890E-07	496688.1	3606390.1	40.3	0.00	1.53	0.85	NO	
L0000529	0	0.68890E-07	496684.8	3606390.1	40.1	0.00	1.53	0.85	NO	
L0000530	0	0.68890E-07	496681.5	3606390.1	39.9	0.00	1.53	0.85	NO	
L0000531	0	0.68890E-07	496678.2	3606390.2	39.8	0.00	1.53	0.85	NO	
L0000532	0	0.68890E-07	496674.9	3606390.2	39.7	0.00	1.53	0.85	NO	
L0000533	0	0.68890E-07	496671.7	3606390.3	39.6	0.00	1.53	0.85	NO	
L0000534	0	0.68890E-07	496668.4	3606390.3	39.5	0.00	1.53	0.85	NO	
L0000535	0	0.68890E-07	496665.1	3606390.3	39.4	0.00	1.53	0.85	NO	
L0000536	0	0.68890E-07	496661.8	3606390.4	39.4	0.00	1.53	0.85	NO	
L0000643	0	0.34460E-07	496660.7	3606394.4	39.3	0.00	1.53	0.85	NO	
L0000644	0	0.34460E-07	496660.4	3606397.6	39.3	0.00	1.53	0.85	NO	
L0000645	0	0.34460E-07	496660.1	3606400.9	39.3	0.00	1.53	0.85	NO	
L0000646	0	0.34460E-07	496659.8	3606404.2	39.3	0.00	1.53	0.85	NO	
L0000647	0	0.34460E-07	496659.5	3606407.4	39.3	0.00	1.53	0.85	NO	
L0000648	0	0.34460E-07	496659.2	3606410.7	39.5	0.00	1.53	0.85	NO	
L0000649	0	0.34460E-07	496659.0	3606414.0	39.7	0.00	1.53	0.85	NO	
L0000650	0	0.34460E-07	496658.7	3606417.2	39.8	0.00	1.53	0.85	NO	
L0000651	0	0.34460E-07	496658.4	3606420.5	40.0	0.00	1.53	0.85	NO	
L0000652	0	0.34460E-07	496658.1	3606423.8	40.1	0.00	1.53	0.85	NO	
L0000653	0	0.34460E-07	496657.8	3606427.0	40.2	0.00	1.53	0.85	NO	
L0000654	0	0.34460E-07	496657.5	3606430.3	40.3	0.00	1.53	0.85	NO	
L0000655	0	0.34460E-07	496657.2	3606433.6	40.4	0.00	1.53	0.85	NO	
L0000656	0	0.34460E-07	496657.0	3606436.8	40.5	0.00	1.53	0.85	NO	
L0000657	0	0.34460E-07	496656.7	3606440.1	40.7	0.00	1.53	0.85	NO	
L0000658	0	0.34460E-07	496656.4	3606443.4	40.8	0.00	1.53	0.85	NO	
L0000659	0	0.34460E-07	496656.1	3606446.7	40.9	0.00	1.53	0.85	NO	
L0000660	0	0.34460E-07	496655.8	3606449.9	41.0	0.00	1.53	0.85	NO	
L0000661	0	0.34460E-07	496655.5	3606453.2	41.1	0.00	1.53	0.85	NO	
L0000662	0	0.34460E-07	496655.2	3606456.4	41.2	0.00	1.53	0.85	NO	

L0000663	0	0.34460E-07	496654.9	3606459.7	41.3	0.00	1.53	0.85	NO
L0000664	0	0.34460E-07	496654.6	3606463.0	41.4	0.00	1.53	0.85	NO

*** AERMOD - VERSION 21112 ***
*** AERMET - VERSION 14134 ***

*** C:\Lakes\AERMOD View\Shinohara HRA\Shinohara HRA.isc
*** Shinohara DPM Concentrations - 1 year

*** 08/04/21
*** 13:08:43
*** PAGE 12

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** 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	EMISSION RATE SCALAR VARY BY
L0000665	0	0.34460E-07	496654.3	3606466.2	41.5	0.00	1.53	0.85	NO	
L0000666	0	0.34460E-07	496654.0	3606469.5	41.6	0.00	1.53	0.85	NO	
L0000667	0	0.34460E-07	496653.7	3606472.8	41.7	0.00	1.53	0.85	NO	
L0000668	0	0.34460E-07	496653.4	3606476.0	41.8	0.00	1.53	0.85	NO	
L0000669	0	0.34460E-07	496653.1	3606479.3	41.9	0.00	1.53	0.85	NO	
L0000670	0	0.34460E-07	496652.8	3606482.6	42.0	0.00	1.53	0.85	NO	
L0000671	0	0.34460E-07	496652.5	3606485.8	42.0	0.00	1.53	0.85	NO	
L0000672	0	0.34460E-07	496652.2	3606489.1	42.1	0.00	1.53	0.85	NO	
L0000673	0	0.34460E-07	496651.9	3606492.4	42.2	0.00	1.53	0.85	NO	
L0000674	0	0.34460E-07	496651.6	3606495.6	42.3	0.00	1.53	0.85	NO	
L0000675	0	0.34460E-07	496651.3	3606498.9	42.4	0.00	1.53	0.85	NO	
L0000676	0	0.34460E-07	496651.0	3606502.2	42.6	0.00	1.53	0.85	NO	
L0000677	0	0.34460E-07	496650.6	3606505.4	42.8	0.00	1.53	0.85	NO	
L0000678	0	0.34460E-07	496650.3	3606508.7	43.0	0.00	1.53	0.85	NO	
L0000679	0	0.34460E-07	496650.0	3606512.0	43.4	0.00	1.53	0.85	NO	
L0000680	0	0.34460E-07	496649.7	3606515.2	43.8	0.00	1.53	0.85	NO	
L0000681	0	0.34460E-07	496649.4	3606518.5	44.1	0.00	1.53	0.85	NO	
L0000682	0	0.34460E-07	496649.1	3606521.8	44.4	0.00	1.53	0.85	NO	
L0000683	0	0.34460E-07	496648.8	3606525.0	44.8	0.00	1.53	0.85	NO	
L0000684	0	0.34460E-07	496648.5	3606528.3	45.1	0.00	1.53	0.85	NO	
L0000685	0	0.34460E-07	496648.2	3606531.6	45.4	0.00	1.53	0.85	NO	
L0000686	0	0.34460E-07	496647.9	3606534.8	45.6	0.00	1.53	0.85	NO	
L0000687	0	0.34460E-07	496647.6	3606538.1	45.9	0.00	1.53	0.85	NO	
L0000688	0	0.34460E-07	496647.3	3606541.4	46.1	0.00	1.53	0.85	NO	
L0000689	0	0.34460E-07	496647.0	3606544.6	46.4	0.00	1.53	0.85	NO	
L0000690	0	0.34460E-07	496646.7	3606547.9	46.6	0.00	1.53	0.85	NO	
L0000691	0	0.34460E-07	496646.4	3606551.2	46.8	0.00	1.53	0.85	NO	
L0000692	0	0.34460E-07	496646.1	3606554.4	47.1	0.00	1.53	0.85	NO	
L0000693	0	0.34460E-07	496645.8	3606557.7	47.3	0.00	1.53	0.85	NO	
L0000694	0	0.34460E-07	496645.5	3606561.0	47.6	0.00	1.53	0.85	NO	
L0000695	0	0.34460E-07	496645.2	3606564.2	48.0	0.00	1.53	0.85	NO	
L0000696	0	0.34460E-07	496644.9	3606567.5	48.3	0.00	1.53	0.85	NO	
L0000697	0	0.34460E-07	496644.6	3606570.8	48.7	0.00	1.53	0.85	NO	
L0000698	0	0.34460E-07	496644.3	3606574.0	49.1	0.00	1.53	0.85	NO	
L0000699	0	0.34460E-07	496644.0	3606577.3	49.5	0.00	1.53	0.85	NO	
L0000700	0	0.34460E-07	496643.7	3606580.6	49.8	0.00	1.53	0.85	NO	
L0000701	0	0.34460E-07	496643.4	3606583.8	50.2	0.00	1.53	0.85	NO	
L0000702	0	0.34460E-07	496643.1	3606587.1	50.5	0.00	1.53	0.85	NO	

L0000703	0	0.34460E-07	496642.8	3606590.4	50.8	0.00	1.53	0.85	NO
L0000704	0	0.34460E-07	496642.5	3606593.6	51.2	0.00	1.53	0.85	NO

*** AERMOD - VERSION 21112 ***
*** AERMET - VERSION 14134 ***

*** C:\Lakes\AERMOD View\Shinohara HRA\Shinohara HRA.isc
*** Shinohara DPM Concentrations - 1 year

*** 08/04/21
*** 13:08:43
*** PAGE 13

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** 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	EMISSION RATE SCALAR VARY BY
L0000705	0	0.34460E-07	496642.2	3606596.9	51.5	0.00	1.53	0.85	NO	
L0000706	0	0.34460E-07	496641.9	3606600.2	51.9	0.00	1.53	0.85	NO	
L0000707	0	0.34460E-07	496641.5	3606603.4	52.2	0.00	1.53	0.85	NO	
L0000708	0	0.34460E-07	496641.2	3606606.7	52.6	0.00	1.53	0.85	NO	
L0000709	0	0.34460E-07	496640.9	3606609.9	52.9	0.00	1.53	0.85	NO	
L0000710	0	0.34460E-07	496640.6	3606613.2	53.2	0.00	1.53	0.85	NO	
L0000711	0	0.34460E-07	496640.3	3606616.5	53.5	0.00	1.53	0.85	NO	
L0000712	0	0.34460E-07	496640.0	3606619.7	53.8	0.00	1.53	0.85	NO	
L0000713	0	0.34460E-07	496639.7	3606623.0	54.0	0.00	1.53	0.85	NO	
L0000714	0	0.34460E-07	496639.4	3606626.3	54.3	0.00	1.53	0.85	NO	
L0000715	0	0.34460E-07	496639.1	3606629.5	54.5	0.00	1.53	0.85	NO	
L0000716	0	0.34460E-07	496638.8	3606632.8	54.7	0.00	1.53	0.85	NO	
L0000717	0	0.34460E-07	496638.5	3606636.1	54.9	0.00	1.53	0.85	NO	
L0000718	0	0.34460E-07	496638.2	3606639.3	55.1	0.00	1.53	0.85	NO	
L0000719	0	0.34460E-07	496637.9	3606642.6	55.3	0.00	1.53	0.85	NO	
L0000720	0	0.34460E-07	496637.6	3606645.9	55.5	0.00	1.53	0.85	NO	
L0000721	0	0.34460E-07	496637.3	3606649.1	55.7	0.00	1.53	0.85	NO	
L0000722	0	0.34460E-07	496637.0	3606652.4	55.9	0.00	1.53	0.85	NO	
L0000723	0	0.34460E-07	496636.7	3606655.7	56.0	0.00	1.53	0.85	NO	
L0000724	0	0.34460E-07	496636.4	3606658.9	56.1	0.00	1.53	0.85	NO	
L0000725	0	0.34460E-07	496636.1	3606662.2	56.3	0.00	1.53	0.85	NO	
L0000726	0	0.58650E-07	496655.9	3606389.7	39.2	0.00	1.53	0.85	NO	
L0000727	0	0.58650E-07	496652.6	3606389.6	39.2	0.00	1.53	0.85	NO	
L0000728	0	0.58650E-07	496649.3	3606389.5	39.2	0.00	1.53	0.85	NO	
L0000729	0	0.58650E-07	496646.1	3606389.4	39.5	0.00	1.53	0.85	NO	
L0000730	0	0.58650E-07	496642.8	3606389.3	39.8	0.00	1.53	0.85	NO	
L0000731	0	0.58650E-07	496639.5	3606389.1	40.1	0.00	1.53	0.85	NO	
L0000732	0	0.58650E-07	496636.2	3606389.0	40.5	0.00	1.53	0.85	NO	
L0000733	0	0.58650E-07	496633.0	3606388.9	40.8	0.00	1.53	0.85	NO	
L0000734	0	0.58650E-07	496629.7	3606388.8	41.0	0.00	1.53	0.85	NO	
L0000735	0	0.58650E-07	496626.4	3606388.7	41.3	0.00	1.53	0.85	NO	
L0000736	0	0.58650E-07	496623.1	3606388.5	41.5	0.00	1.53	0.85	NO	
L0000737	0	0.58650E-07	496619.8	3606388.4	41.7	0.00	1.53	0.85	NO	
L0000738	0	0.58650E-07	496616.6	3606388.3	41.8	0.00	1.53	0.85	NO	
L0000739	0	0.58650E-07	496613.3	3606388.2	41.9	0.00	1.53	0.85	NO	
L0000740	0	0.58650E-07	496610.0	3606388.1	42.0	0.00	1.53	0.85	NO	
L0000741	0	0.58650E-07	496606.7	3606387.9	42.1	0.00	1.53	0.85	NO	
L0000742	0	0.58650E-07	496603.5	3606387.8	42.2	0.00	1.53	0.85	NO	

L0000743	0	0.58650E-07	496600.2	3606387.7	42.3	0.00	1.53	0.85	NO
L0000744	0	0.58650E-07	496596.9	3606387.6	42.3	0.00	1.53	0.85	NO

*** AERMOD - VERSION 21112 ***
*** AERMET - VERSION 14134 ***

*** C:\Lakes\AERMOD View\Shinohara HRA\Shinohara HRA.isc
*** Shinohara DPM Concentrations - 1 year

*** 08/04/21
*** 13:08:43
PAGE 14

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** 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	EMISSION RATE SCALAR VARY BY
L0000745	0	0.58650E-07	496593.6	3606387.5	42.3	0.00	1.53	0.85	NO	
L0000746	0	0.58650E-07	496590.3	3606387.4	42.2	0.00	1.53	0.85	NO	
L0000747	0	0.58650E-07	496587.1	3606387.2	42.2	0.00	1.53	0.85	NO	
L0000748	0	0.58650E-07	496583.8	3606387.1	42.1	0.00	1.53	0.85	NO	
L0000749	0	0.58650E-07	496580.5	3606387.0	42.1	0.00	1.53	0.85	NO	
L0000750	0	0.58650E-07	496577.2	3606386.9	42.0	0.00	1.53	0.85	NO	
L0000751	0	0.58650E-07	496574.0	3606386.8	42.0	0.00	1.53	0.85	NO	
L0000752	0	0.58650E-07	496570.7	3606386.6	41.8	0.00	1.53	0.85	NO	
L0000753	0	0.58650E-07	496567.4	3606386.5	41.4	0.00	1.53	0.85	NO	
L0000754	0	0.58650E-07	496564.1	3606386.4	41.0	0.00	1.53	0.85	NO	
L0000755	0	0.58650E-07	496560.8	3606386.3	40.7	0.00	1.53	0.85	NO	
L0000756	0	0.58650E-07	496557.6	3606386.2	40.3	0.00	1.53	0.85	NO	
L0000757	0	0.58650E-07	496554.3	3606386.1	39.9	0.00	1.53	0.85	NO	
L0000758	0	0.58650E-07	496551.0	3606385.9	39.6	0.00	1.53	0.85	NO	
L0000759	0	0.58650E-07	496547.7	3606385.8	39.3	0.00	1.53	0.85	NO	
L0000760	0	0.58650E-07	496544.5	3606385.7	39.1	0.00	1.53	0.85	NO	
L0000761	0	0.58650E-07	496541.2	3606385.6	39.3	0.00	1.53	0.85	NO	
L0000762	0	0.58650E-07	496537.9	3606385.5	39.4	0.00	1.53	0.85	NO	
L0000763	0	0.34400E-07	496537.3	3606381.2	39.3	0.00	1.53	0.85	NO	
L0000764	0	0.34400E-07	496537.7	3606377.9	39.2	0.00	1.53	0.85	NO	
L0000765	0	0.34400E-07	496538.1	3606374.7	39.2	0.00	1.53	0.85	NO	
L0000766	0	0.34400E-07	496538.5	3606371.4	39.1	0.00	1.53	0.85	NO	
L0000767	0	0.34400E-07	496538.9	3606368.2	39.0	0.00	1.53	0.85	NO	
L0000768	0	0.34400E-07	496539.3	3606364.9	38.9	0.00	1.53	0.85	NO	
L0000769	0	0.34400E-07	496539.7	3606361.6	38.8	0.00	1.53	0.85	NO	
L0000770	0	0.34400E-07	496540.1	3606358.4	38.8	0.00	1.53	0.85	NO	
L0000771	0	0.34400E-07	496540.5	3606355.1	38.7	0.00	1.53	0.85	NO	
L0000772	0	0.34400E-07	496540.9	3606351.9	38.6	0.00	1.53	0.85	NO	
L0000773	0	0.34400E-07	496541.3	3606348.6	38.5	0.00	1.53	0.85	NO	
L0000774	0	0.34400E-07	496541.7	3606345.4	38.5	0.00	1.53	0.85	NO	
L0000775	0	0.34400E-07	496542.1	3606342.1	38.5	0.00	1.53	0.85	NO	
L0000776	0	0.34400E-07	496542.5	3606338.9	38.5	0.00	1.53	0.85	NO	
L0000777	0	0.34400E-07	496542.9	3606335.6	38.5	0.00	1.53	0.85	NO	
L0000778	0	0.34400E-07	496543.3	3606332.4	38.5	0.00	1.53	0.85	NO	
L0000779	0	0.34400E-07	496543.7	3606329.1	38.5	0.00	1.53	0.85	NO	
L0000780	0	0.34400E-07	496544.1	3606325.8	38.5	0.00	1.53	0.85	NO	
L0000781	0	0.34400E-07	496544.5	3606322.6	38.6	0.00	1.53	0.85	NO	
L0000782	0	0.34400E-07	496544.9	3606319.3	38.6	0.00	1.53	0.85	NO	

L0000783	0	0.34400E-07	496545.3	3606316.1	38.6	0.00	1.53	0.85	NO
L0000784	0	0.34400E-07	496545.7	3606312.8	38.7	0.00	1.53	0.85	NO

*** AERMOD - VERSION 21112 ***
*** AERMET - VERSION 14134 ***

*** C:\Lakes\AERMOD View\Shinohara HRA\Shinohara HRA.isc
*** Shinohara DPM Concentrations - 1 year

*** 08/04/21
*** 13:08:43
*** PAGE 15

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** 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	EMISSION RATE SCALAR VARY BY
L0000785	0	0.34400E-07	496546.1	3606309.6	38.8	0.00	1.53	0.85	NO	
L0000786	0	0.34400E-07	496546.5	3606306.3	38.9	0.00	1.53	0.85	NO	
L0000787	0	0.34400E-07	496546.9	3606303.1	39.0	0.00	1.53	0.85	NO	
L0000788	0	0.34400E-07	496547.3	3606299.8	39.2	0.00	1.53	0.85	NO	
L0000789	0	0.34400E-07	496547.7	3606296.5	39.3	0.00	1.53	0.85	NO	
L0000790	0	0.34400E-07	496548.1	3606293.3	39.4	0.00	1.53	0.85	NO	
L0000791	0	0.34400E-07	496548.5	3606290.0	39.5	0.00	1.53	0.85	NO	
L0000792	0	0.34400E-07	496548.9	3606286.8	39.6	0.00	1.53	0.85	NO	
L0000793	0	0.34400E-07	496549.3	3606283.5	39.8	0.00	1.53	0.85	NO	
L0000794	0	0.34400E-07	496549.7	3606280.3	39.9	0.00	1.53	0.85	NO	
L0000795	0	0.34400E-07	496550.1	3606277.0	40.0	0.00	1.53	0.85	NO	
L0000796	0	0.34400E-07	496550.5	3606273.8	40.1	0.00	1.53	0.85	NO	
L0000797	0	0.34400E-07	496550.9	3606270.5	40.2	0.00	1.53	0.85	NO	
L0000798	0	0.34400E-07	496551.3	3606267.2	40.3	0.00	1.53	0.85	NO	
L0000799	0	0.34400E-07	496551.7	3606264.0	40.4	0.00	1.53	0.85	NO	
L0000800	0	0.34400E-07	496552.1	3606260.7	40.5	0.00	1.53	0.85	NO	
L0000801	0	0.34400E-07	496552.5	3606257.5	40.6	0.00	1.53	0.85	NO	
L0000802	0	0.34400E-07	496552.9	3606254.2	40.6	0.00	1.53	0.85	NO	
L0000803	0	0.34400E-07	496553.3	3606251.0	40.7	0.00	1.53	0.85	NO	
L0000804	0	0.34400E-07	496553.7	3606247.7	40.6	0.00	1.53	0.85	NO	
L0000805	0	0.34400E-07	496554.1	3606244.5	40.5	0.00	1.53	0.85	NO	
L0000806	0	0.34400E-07	496554.5	3606241.2	40.4	0.00	1.53	0.85	NO	
L0000807	0	0.34400E-07	496554.9	3606237.9	40.3	0.00	1.53	0.85	NO	
L0000808	0	0.34400E-07	496555.3	3606234.7	40.3	0.00	1.53	0.85	NO	
L0000809	0	0.34400E-07	496555.7	3606231.4	40.2	0.00	1.53	0.85	NO	
L0000810	0	0.34400E-07	496556.1	3606228.2	40.1	0.00	1.53	0.85	NO	
L0000811	0	0.34400E-07	496556.5	3606224.9	40.0	0.00	1.53	0.85	NO	
L0000812	0	0.34400E-07	496556.9	3606221.7	40.0	0.00	1.53	0.85	NO	
L0000813	0	0.34400E-07	496557.3	3606218.4	39.9	0.00	1.53	0.85	NO	
L0000814	0	0.34400E-07	496557.7	3606215.2	39.8	0.00	1.53	0.85	NO	
L0000815	0	0.34400E-07	496558.1	3606211.9	39.8	0.00	1.53	0.85	NO	
L0000816	0	0.34400E-07	496558.5	3606208.6	39.7	0.00	1.53	0.85	NO	
L0000817	0	0.34400E-07	496558.9	3606205.4	39.6	0.00	1.53	0.85	NO	
L0000818	0	0.34400E-07	496559.3	3606202.1	39.5	0.00	1.53	0.85	NO	
L0000819	0	0.34400E-07	496559.7	3606198.9	39.5	0.00	1.53	0.85	NO	
L0000820	0	0.34400E-07	496560.1	3606195.6	39.4	0.00	1.53	0.85	NO	
L0000821	0	0.34400E-07	496560.5	3606192.4	39.4	0.00	1.53	0.85	NO	
L0000822	0	0.34400E-07	496560.9	3606189.1	39.3	0.00	1.53	0.85	NO	

L0000823	0	0.34400E-07	496561.3	3606185.9	39.3	0.00	1.53	0.85	NO
L0000824	0	0.34400E-07	496561.7	3606182.6	39.2	0.00	1.53	0.85	NO

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA\Shinohara HRA.isc
*** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1 year

*** 08/04/21
*** 13:08:43
 PAGE 17

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs															
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ALL	L0000223	,	L0000224	,	L0000225	,	L0000226	,	L0000227	,	L0000228	,	L0000229	,	L0000230	,
	L0000231	,	L0000232	,	L0000233	,	L0000234	,	L0000235	,	L0000236	,	L0000237	,	L0000238	,
	L0000239	,	L0000240	,	L0000241	,	L0000242	,	L0000243	,	L0000244	,	L0000245	,	L0000246	,
	L0000247	,	L0000248	,	L0000249	,	L0000250	,	L0000251	,	L0000252	,	L0000253	,	L0000254	,
	L0000255	,	L0000256	,	L0000257	,	L0000258	,	L0000259	,	L0000260	,	L0000261	,	L0000262	,
	L0000263	,	L0000264	,	L0000265	,	L0000266	,	L0000267	,	L0000268	,	L0000269	,	L0000270	,
	L0000271	,	L0000272	,	L0000273	,	L0000274	,	L0000275	,	L0000276	,	L0000277	,	L0000278	,
	L0000279	,	L0000280	,	L0000281	,	L0000282	,	L0000283	,	L0000284	,	L0000285	,	L0000286	,
	L0000287	,	L0000288	,	L0000289	,	L0000147	,	L0000148	,	L0000149	,	L0000150	,	L0000151	,
	L0000152	,	L0000153	,	L0000154	,	L0000155	,	L0000156	,	L0000157	,	L0000158	,	L0000159	,
	L0000160	,	L0000161	,	L0000162	,	L0000163	,	L0000164	,	L0000165	,	L0000166	,	L0000167	,
	L0000168	,	L0000169	,	L0000170	,	L0000171	,	L0000172	,	L0000173	,	L0000174	,	L0000175	,
	L0000176	,	L0000177	,	L0000178	,	L0000179	,	L0000180	,	L0000181	,	L0000182	,	L0000183	,
	L0000184	,	L0000537	,	L0000538	,	L0000539	,	L0000540	,	L0000541	,	L0000542	,	L0000543	,
	L0000544	,	L0000545	,	L0000546	,	L0000547	,	L0000548	,	L0000549	,	L0000550	,	L0000551	,
	L0000552	,	L0000553	,	L0000554	,	L0000555	,	L0000556	,	L0000557	,	L0000558	,	L0000559	,
	L0000560	,	L0000561	,	L0000562	,	L0000563	,	L0000564	,	L0000565	,	L0000566	,	L0000567	,
	L0000568	,	L0000569	,	L0000570	,	L0000571	,	L0000572	,	L0000573	,	L0000574	,	L0000575	,
	L0000576	,	L0000577	,	L0000578	,	L0000579	,	L0000580	,	L0000581	,	L0000582	,	L0000583	,
	L0000584	,	L0000585	,	L0000586	,	L0000587	,	L0000588	,	L0000589	,	L0000357	,	L0000358	,

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*** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1 year

*** 08/04/21
*** 13:08:43
 PAGE 18

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs														
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L0000359	,	L0000360	,	L0000361	,	L0000362	,	L0000363	,	L0000364	,	L0000365	,	L0000366	,
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L0000375	,	L0000376	,	L0000377	,	L0000378	,	L0000379	,	L0000380	,	L0000381	,	L0000382	,
L0000383	,	L0000384	,	L0000385	,	L0000386	,	L0000387	,	L0000388	,	L0000389	,	L0000390	,
L0000391	,	L0000392	,	L0000393	,	L0000394	,	L0000395	,	L0000396	,	L0000397	,	L0000398	,
L0000399	,	L0000400	,	L0000401	,	L0000402	,	L0000403	,	L0000404	,	L0000405	,	L0000406	,
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L0000423	,	L0000424	,	L0000425	,	L0000426	,	L0000427	,	L0000428	,	L0000429	,	L0000430	,
L0000431	,	L0000432	,	L0000433	,	L0000434	,	L0000435	,	L0000436	,	L0000437	,	L0000438	,
L0000439	,	L0000440	,	L0000441	,	L0000442	,	L0000443	,	L0000444	,	L0000445	,	L0000446	,
L0000447	,	L0000448	,	L0000449	,	L0000450	,	L0000451	,	L0000452	,	L0000453	,	L0000454	,
L0000455	,	L0000456	,	L0000457	,	L0000458	,	L0000459	,	L0000460	,	L0000461	,	L0000462	,
L0000463	,	L0000464	,	L0000465	,	L0000466	,	L0000467	,	L0000468	,	L0000469	,	L0000470	,
L0000471	,	L0000472	,	L0000473	,	L0000474	,	L0000475	,	L0000476	,	L0000477	,	L0000478	,
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L0000487	,	L0000488	,	L0000489	,	L0000490	,	L0000491	,	L0000492	,	L0000493	,	L0000494	,
L0000495	,	L0000496	,	L0000497	,	L0000498	,	L0000499	,	L0000500	,	L0000501	,	L0000502	,
L0000503	,	L0000504	,	L0000505	,	L0000506	,	L0000507	,	L0000508	,	L0000509	,	L0000510	,
L0000511	,	L0000512	,	L0000513	,	L0000514	,	L0000515	,	L0000516	,	L0000517	,	L0000518	,

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*** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1 year

*** 08/04/21
*** 13:08:43
PAGE 19

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID

SOURCE IDs

L0000519	,	L0000520	,	L0000521	,	L0000522	,	L0000523	,	L0000524	,	L0000525	,	L0000526	,
L0000527	,	L0000528	,	L0000529	,	L0000530	,	L0000531	,	L0000532	,	L0000533	,	L0000534	,
L0000535	,	L0000536	,	STCK1	,	STCK2	,	STCK3	,	STCK4	,	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	,	L0000670	,	L0000671	,	L0000672	,	L0000673	,	L0000674	,	L0000675	,	L0000676	,
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L0000685	,	L0000686	,	L0000687	,	L0000688	,	L0000689	,	L0000690	,	L0000691	,	L0000692	,
L0000693	,	L0000694	,	L0000695	,	L0000696	,	L0000697	,	L0000698	,	L0000699	,	L0000700	,
L0000701	,	L0000702	,	L0000703	,	L0000704	,	L0000705	,	L0000706	,	L0000707	,	L0000708	,
L0000709	,	L0000710	,	L0000711	,	L0000712	,	L0000713	,	L0000714	,	L0000715	,	L0000716	,
L0000717	,	L0000718	,	L0000719	,	L0000720	,	L0000721	,	L0000722	,	L0000723	,	L0000724	,
L0000725	,	L0000726	,	L0000727	,	L0000728	,	L0000729	,	L0000730	,	L0000731	,	L0000732	,
L0000733	,	L0000734	,	L0000735	,	L0000736	,	L0000737	,	L0000738	,	L0000739	,	L0000740	,
L0000741	,	L0000742	,	L0000743	,	L0000744	,	L0000745	,	L0000746	,	L0000747	,	L0000748	,
L0000749	,	L0000750	,	L0000751	,	L0000752	,	L0000753	,	L0000754	,	L0000755	,	L0000756	,
L0000757	,	L0000758	,	L0000759	,	L0000760	,	L0000761	,	L0000762	,	L0000763	,	L0000764	,
L0000765	,	L0000766	,	L0000767	,	L0000768	,	L0000769	,	L0000770	,	L0000771	,	L0000772	,
L0000773	,	L0000774	,	L0000775	,	L0000776	,	L0000777	,	L0000778	,	L0000779	,	L0000780	,

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*** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1 year

*** 08/04/21
*** 13:08:43
 PAGE 20

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID

SOURCE IDs

L0000781 , L0000782 , L0000783 , L0000784 , L0000785 , L0000786 , L0000787 , L0000788 ,
L0000789 , L0000790 , L0000791 , L0000792 , 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 , L0000825 , L0000826 , L0000827 , L0000828 ,
L0000829 , L0000830 , L0000831 , L0000832 , L0000833 , L0000834 , L0000835 , L0000836 ,
L0000837 ,

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA\Shinohara HRA.isc
*** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1 year

*** 08/04/21
*** 13:08:43
*** PAGE 21

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK1

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	12.2,	134.6,	202.5,	-61.0,	49.4,	2	12.2,	161.1,	211.6,	-75.1,	56.1,
3	12.2,	183.0,	214.4,	-86.9,	61.0,	4	12.2,	199.4,	210.7,	-96.0,	64.0,
5	12.2,	209.6,	201.1,	-102.2,	65.0,	6	12.2,	213.8,	185.4,	-105.4,	64.0,
7	12.2,	211.8,	164.2,	-105.3,	60.8,	8	12.2,	203.3,	138.5,	-102.0,	55.8,
9	12.2,	188.7,	108.5,	-95.6,	49.1,	10	12.2,	202.5,	134.6,	-116.8,	40.2,
11	12.2,	211.6,	161.1,	-136.7,	30.7,	12	12.2,	214.4,	183.0,	-152.5,	20.3,
13	12.2,	210.7,	199.4,	-163.6,	9.3,	14	12.2,	201.1,	209.6,	-169.8,	-1.7,
15	12.2,	185.4,	213.8,	-170.9,	-12.7,	16	12.2,	164.2,	211.8,	-166.7,	-23.2,
17	12.2,	138.5,	203.3,	-157.5,	-32.8,	18	12.2,	108.5,	188.7,	-143.4,	-41.4,
19	12.2,	134.6,	202.5,	-141.4,	-49.4,	20	12.2,	161.1,	211.6,	-136.5,	-56.1,
21	12.2,	183.0,	214.4,	-127.5,	-61.0,	22	12.2,	199.4,	210.7,	-114.7,	-64.0,
23	12.2,	209.6,	201.1,	-98.8,	-65.0,	24	12.2,	213.8,	185.4,	-80.0,	-64.0,
25	12.2,	211.8,	164.2,	-59.0,	-60.8,	26	12.2,	203.3,	138.5,	-36.5,	-55.8,
27	12.2,	188.7,	108.5,	-12.8,	-49.1,	28	12.2,	202.5,	134.6,	-17.9,	-40.2,
29	12.2,	211.6,	161.1,	-24.4,	-30.7,	30	12.2,	214.4,	183.0,	-30.5,	-20.3,
31	12.2,	210.7,	199.4,	-35.7,	-9.3,	32	12.2,	201.1,	209.6,	-39.8,	1.7,
33	12.2,	185.4,	213.8,	-42.9,	12.7,	34	12.2,	164.2,	211.8,	-45.1,	23.2,
35	12.2,	138.5,	203.3,	-45.9,	32.8,	36	12.2,	108.5,	188.7,	-45.3,	41.4,

SOURCE ID: STCK2

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	12.2,	134.6,	202.5,	-91.8,	43.1,	2	12.2,	161.1,	211.6,	-104.2,	44.6,
3	12.2,	183.0,	214.4,	-113.6,	44.5,	4	12.2,	199.4,	210.7,	-119.5,	43.1,
5	12.2,	209.6,	201.1,	-121.7,	40.4,	6	12.2,	213.8,	185.4,	-120.3,	36.4,
7	12.2,	211.8,	164.2,	-115.2,	31.0,	8	12.2,	203.3,	138.5,	-106.6,	24.8,
9	12.2,	188.7,	108.5,	-94.7,	17.7,	10	12.2,	202.5,	134.6,	-110.4,	9.5,
11	12.2,	211.6,	161.1,	-125.1,	1.6,	12	12.2,	214.4,	183.0,	-136.0,	-6.4,
13	12.2,	210.7,	199.4,	-142.8,	-14.1,	14	12.2,	201.1,	209.6,	-145.2,	-21.2,
15	12.2,	185.4,	213.8,	-143.2,	-27.6,	16	12.2,	164.2,	211.8,	-136.9,	-33.0,
17	12.2,	138.5,	203.3,	-126.4,	-37.3,	18	12.2,	108.5,	188.7,	-112.1,	-40.5,
19	12.2,	134.6,	202.5,	-110.7,	-43.1,	20	12.2,	161.1,	211.6,	-107.4,	-44.6,
21	12.2,	183.0,	214.4,	-100.8,	-44.5,	22	12.2,	199.4,	210.7,	-91.2,	-43.1,
23	12.2,	209.6,	201.1,	-79.4,	-40.4,	24	12.2,	213.8,	185.4,	-65.1,	-36.4,
25	12.2,	211.8,	164.2,	-49.1,	-31.0,	26	12.2,	203.3,	138.5,	-31.9,	-24.8,
27	12.2,	188.7,	108.5,	-13.7,	-17.7,	28	12.2,	202.5,	134.6,	-24.2,	-9.5,
29	12.2,	211.6,	161.1,	-36.0,	-1.6,	30	12.2,	214.4,	183.0,	-47.0,	6.4,
31	12.2,	210.7,	199.4,	-56.5,	14.1,	32	12.2,	201.1,	209.6,	-64.4,	21.2,
33	12.2,	185.4,	213.8,	-70.5,	27.6,	34	12.2,	164.2,	211.8,	-74.8,	33.0,
35	12.2,	138.5,	203.3,	-76.9,	37.3,	36	12.2,	108.5,	188.7,	-76.6,	40.5,

SOURCE ID: STCK3

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	12.2,	134.6,	202.5,	-122.3,	38.4,	2	12.2,	161.1,	211.6,	-133.5,	34.6,
3	12.2,	183.0,	214.4,	-140.7,	29.7,	4	12.2,	199.4,	210.7,	-143.6,	23.8,
5	12.2,	209.6,	201.1,	-142.1,	17.2,	6	12.2,	213.8,	185.4,	-136.3,	9.9,
7	12.2,	211.8,	164.2,	-126.4,	2.2,	8	12.2,	203.3,	138.5,	-112.6,	-5.6,
9	12.2,	188.7,	108.5,	-95.4,	-13.2,	10	12.2,	202.5,	134.6,	-105.7,	-21.1,
11	12.2,	211.6,	161.1,	-115.2,	-27.7,	12	12.2,	214.4,	183.0,	-121.2,	-33.5,
13	12.2,	210.7,	199.4,	-123.5,	-38.2,	14	12.2,	201.1,	209.6,	-122.0,	-41.6,
15	12.2,	185.4,	213.8,	-116.8,	-43.6,	16	12.2,	164.2,	211.8,	-108.1,	-44.2,
17	12.2,	138.5,	203.3,	-96.1,	-43.4,	18	12.2,	108.5,	188.7,	-81.2,	-41.2,
19	12.2,	134.6,	202.5,	-80.2,	-38.4,	20	12.2,	161.1,	211.6,	-78.1,	-34.6,
21	12.2,	183.0,	214.4,	-73.7,	-29.7,	22	12.2,	199.4,	210.7,	-67.1,	-23.8,
23	12.2,	209.6,	201.1,	-59.0,	-17.2,	24	12.2,	213.8,	185.4,	-49.1,	-9.9,
25	12.2,	211.8,	164.2,	-37.9,	-2.2,	26	12.2,	203.3,	138.5,	-25.9,	5.6,
27	12.2,	188.7,	108.5,	-13.1,	13.2,	28	12.2,	202.5,	134.6,	-28.9,	21.1,
29	12.2,	211.6,	161.1,	-45.9,	27.7,	30	12.2,	214.4,	183.0,	-61.9,	33.5,
31	12.2,	210.7,	199.4,	-75.9,	38.2,	32	12.2,	201.1,	209.6,	-87.6,	41.6,
33	12.2,	185.4,	213.8,	-96.9,	43.6,	34	12.2,	164.2,	211.8,	-103.7,	44.2,
35	12.2,	138.5,	203.3,	-107.2,	43.4,	36	12.2,	108.5,	188.7,	-107.6,	41.2,

SOURCE ID: STCK4

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	12.2,	134.6,	202.5,	-161.6,	31.7,	2	12.2,	161.1,	211.6,	-171.0,	21.2,
3	12.2,	183.0,	214.4,	-175.3,	9.9,	4	12.2,	199.4,	210.7,	-174.2,	-1.7,
5	12.2,	209.6,	201.1,	-167.9,	-13.2,	6	12.2,	213.8,	185.4,	-156.4,	-24.4,
7	12.2,	211.8,	164.2,	-140.2,	-35.1,	8	12.2,	203.3,	138.5,	-119.7,	-44.8,
9	12.2,	188.7,	108.5,	-95.6,	-53.0,	10	12.2,	202.5,	134.6,	-99.0,	-60.3,
11	12.2,	211.6,	161.1,	-101.8,	-65.2,	12	12.2,	214.4,	183.0,	-101.5,	-68.1,
13	12.2,	210.7,	199.4,	-98.0,	-68.9,	14	12.2,	201.1,	209.6,	-91.6,	-67.3,
15	12.2,	185.4,	213.8,	-82.5,	-63.7,	16	12.2,	164.2,	211.8,	-70.8,	-58.1,
17	12.2,	138.5,	203.3,	-56.9,	-50.5,	18	12.2,	108.5,	188.7,	-41.3,	-41.4,
19	12.2,	134.6,	202.5,	-40.9,	-31.7,	20	12.2,	161.1,	211.6,	-40.6,	-21.2,
21	12.2,	183.0,	214.4,	-39.1,	-9.9,	22	12.2,	199.4,	210.7,	-36.5,	1.7,
23	12.2,	209.6,	201.1,	-33.2,	13.2,	24	12.2,	213.8,	185.4,	-29.0,	24.4,
25	12.2,	211.8,	164.2,	-24.1,	35.1,	26	12.2,	203.3,	138.5,	-18.7,	44.8,
27	12.2,	188.7,	108.5,	-12.8,	53.0,	28	12.2,	202.5,	134.6,	-35.6,	60.3,
29	12.2,	211.6,	161.1,	-59.3,	65.2,	30	12.2,	214.4,	183.0,	-81.6,	68.1,
31	12.2,	210.7,	199.4,	-101.3,	68.9,	32	12.2,	201.1,	209.6,	-118.0,	67.3,
33	12.2,	185.4,	213.8,	-131.3,	63.7,	34	12.2,	164.2,	211.8,	-141.0,	58.1,
35	12.2,	138.5,	203.3,	-146.4,	50.5,	36	12.2,	108.5,	188.7,	-147.4,	41.4,

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA\Shinohara HRA.isc
 *** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1 year

*** 08/04/21
 *** 13:08:43
 PAGE 23

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	496437.35	496496.95	496556.55	496616.15	496675.75	496735.35	496794.95	496854.55	496914.15
3607254.64	73.10	71.10	68.00	67.00	61.50	61.40	54.30	57.70	59.70
3607195.51	72.10	68.40	66.60	66.10	59.60	54.00	56.50	57.80	58.60
3607136.38	72.40	66.00	65.40	64.20	56.60	53.00	55.70	59.00	59.60
3607077.25	72.60	62.20	62.60	62.90	48.40	54.40	58.20	59.70	61.50
3607018.12	59.50	56.80	59.50	61.20	53.60	53.70	60.30	63.90	68.00
3606958.99	54.40	52.60	57.00	60.00	54.80	55.60	62.40	65.10	68.60
3606899.86	46.70	50.20	55.80	58.70	58.30	58.20	65.70	68.50	72.40
3606840.73	48.90	49.90	55.10	57.20	63.80	62.90	63.90	68.30	69.20
3606781.60	48.20	52.80	54.50	56.50	64.70	66.80	63.70	64.40	65.60
3606722.47	50.90	52.50	55.10	54.30	66.20	66.80	65.00	61.30	60.70
3606663.34	54.50	57.10	55.00	52.60	64.70	64.00	66.30	60.80	57.90
3606604.21	56.30	58.80	51.40	50.40	60.50	59.70	61.60	62.50	54.60
3606545.08	58.30	59.00	47.30	48.80	56.10	53.90	57.80	58.20	50.60
3606485.95	54.50	56.20	44.40	47.20	51.00	49.40	48.20	47.40	45.60
3606426.82	53.30	50.30	42.30	45.70	43.20	46.40	45.10	43.70	42.60
3606367.69	39.50	38.70	39.70	40.40	39.00	40.20	40.50	40.70	39.80
3606308.56	38.20	37.00	41.00	42.70	37.10	39.80	38.10	38.10	37.80
3606249.43	37.10	36.70	41.00	41.70	35.70	36.10	36.30	35.90	35.70
3606190.30	34.70	35.00	38.50	41.10	35.00	34.70	34.60	34.20	33.90
3606131.17	34.00	34.10	36.10	40.10	34.10	34.10	33.50	33.60	33.30
3606072.04	33.40	33.60	34.50	38.40	33.70	33.70	34.00	29.30	27.80

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA\Shinohara HRA.isc
 *** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1 year

*** 08/04/21
 *** 13:08:43
 PAGE 24

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	496973.75	497033.35	497092.95	497152.55	497212.15	497271.75	497331.35	497390.95	497450.55
3607254.64	65.20	67.50	72.50	76.70	80.10	84.70	85.30	99.00	100.10
3607195.51	61.30	65.70	70.70	74.40	76.60	80.60	82.80	86.80	87.50
3607136.38	64.40	75.90	80.00	78.20	76.90	74.10	80.90	83.60	88.20
3607077.25	75.10	80.20	80.90	77.80	75.10	72.10	77.80	84.60	97.10
3607018.12	79.90	81.00	81.80	78.40	76.80	70.30	75.70	94.70	98.20
3606958.99	76.20	81.00	80.90	79.10	75.70	67.00	75.50	92.50	92.30
3606899.86	73.00	77.50	77.90	77.80	73.20	62.70	72.30	79.40	77.70
3606840.73	69.10	77.40	77.70	68.70	65.10	60.30	65.00	68.30	81.60
3606781.60	64.40	73.30	74.10	63.10	56.30	57.70	62.30	72.50	76.20
3606722.47	63.30	63.80	64.10	57.30	53.90	56.10	57.00	56.70	65.30
3606663.34	61.00	62.50	59.10	54.30	53.20	55.10	56.90	56.60	61.90
3606604.21	54.40	55.20	50.40	53.50	52.20	50.00	51.30	50.80	49.30
3606545.08	48.60	44.70	45.10	46.60	47.00	48.50	49.40	49.10	44.30
3606485.95	44.90	41.60	42.90	44.40	44.30	45.00	44.00	42.80	43.20
3606426.82	42.50	41.80	42.60	44.00	43.50	43.10	43.20	41.80	42.00
3606367.69	39.60	39.90	40.40	41.10	41.40	41.60	41.20	41.00	40.40
3606308.56	37.90	38.60	38.00	38.20	39.10	39.20	38.00	39.30	39.60
3606249.43	36.30	37.50	37.90	37.90	37.60	37.40	38.10	37.60	35.00
3606190.30	35.20	36.20	37.10	37.60	36.40	37.70	31.30	30.00	30.00
3606131.17	34.40	33.10	29.00	28.40	27.90	29.60	28.70	29.70	29.50
3606072.04	27.10	26.40	26.60	27.20	27.70	27.50	28.10	28.60	28.90

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*** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1 year

*** 08/04/21
*** 13:08:43
*** PAGE 25

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	497510.15	497569.75	497629.35
3607254.64	102.70	107.40	104.40
3607195.51	92.20	95.00	98.50
3607136.38	95.90	97.40	100.30
3607077.25	100.10	101.10	103.90
3607018.12	98.70	102.50	103.70
3606958.99	90.30	101.40	103.10
3606899.86	79.10	92.10	93.50
3606840.73	90.10	90.90	90.20
3606781.60	74.50	72.40	71.20
3606722.47	66.70	62.80	62.50
3606663.34	65.40	56.40	57.40
3606604.21	51.20	53.90	58.40
3606545.08	44.40	45.00	46.00
3606485.95	43.10	43.10	43.30
3606426.82	42.50	42.40	42.90
3606367.69	40.60	40.90	41.30
3606308.56	39.70	39.90	40.60
3606249.43	40.20	40.00	39.90
3606190.30	29.90	29.60	29.80
3606131.17	29.10	30.90	30.60
3606072.04	29.10	30.50	30.00

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 *** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1 year

*** 08/04/21
 *** 13:08:43
 PAGE 26

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	496437.35	496496.95	496556.55	496616.15	496675.75	496735.35	496794.95	496854.55	496914.15
3607254.64	73.10	71.10	76.50	67.00	76.00	76.00	80.50	80.50	130.10
3607195.51	72.10	68.40	66.60	66.10	66.50	76.00	81.70	81.70	81.90
3607136.38	72.40	72.70	65.40	64.20	66.50	81.70	81.90	81.90	82.20
3607077.25	72.60	72.90	62.60	62.90	81.90	81.90	81.90	81.90	82.20
3607018.12	73.00	72.90	72.90	61.20	63.00	81.90	81.90	81.90	81.90
3606958.99	73.00	72.90	72.00	60.00	58.90	81.90	72.40	81.90	81.90
3606899.86	73.00	72.90	59.20	58.70	58.30	71.70	65.70	72.10	72.40
3606840.73	72.90	72.90	64.80	65.20	64.50	62.90	63.90	68.30	73.20
3606781.60	48.20	52.80	66.20	66.70	64.70	66.80	67.90	64.40	77.50
3606722.47	50.90	59.00	66.20	67.40	66.20	66.80	66.70	61.30	78.30
3606663.34	56.30	58.80	66.20	67.50	64.70	64.00	66.30	66.50	78.00
3606604.21	56.30	58.80	66.20	66.50	62.30	65.70	65.50	62.50	66.50
3606545.08	58.30	59.00	66.10	66.20	57.70	66.10	62.00	62.50	66.50
3606485.95	54.50	59.20	59.30	62.30	52.50	65.70	66.50	66.50	66.50
3606426.82	53.30	59.20	59.30	45.70	65.70	46.40	65.70	65.70	62.50
3606367.69	59.30	59.30	59.30	59.20	65.70	65.70	62.50	62.50	62.50
3606308.56	59.20	59.30	45.20	44.70	37.10	39.80	38.10	38.10	37.80
3606249.43	37.10	36.70	43.00	41.70	41.00	36.10	36.30	35.90	35.70
3606190.30	34.70	35.00	42.30	41.10	40.80	34.70	34.60	34.20	33.90
3606131.17	34.00	34.10	40.80	40.10	40.50	34.10	33.50	33.60	33.30
3606072.04	33.40	33.60	39.70	38.40	33.70	33.70	34.00	33.50	33.40

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 *** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1 year

*** 08/04/21
 *** 13:08:43
 PAGE 27

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	496973.75	497033.35	497092.95	497152.55	497212.15	497271.75	497331.35	497390.95	497450.55
3607254.64	129.60	130.80	130.80	130.80	130.90	130.90	130.90	129.00	129.00
3607195.51	130.10	130.10	130.10	130.80	130.90	130.90	130.90	130.90	139.00
3607136.38	82.20	80.80	80.00	78.20	129.60	130.90	130.80	130.80	129.00
3607077.25	81.70	80.20	80.90	81.10	129.00	130.80	129.60	129.00	98.10
3607018.12	81.70	81.00	81.80	78.40	98.60	129.60	129.00	98.60	98.20
3606958.99	81.90	81.00	80.90	79.10	98.60	129.00	103.80	98.60	99.00
3606899.86	81.60	81.60	77.90	77.80	98.60	129.00	104.30	102.70	125.50
3606840.73	81.60	77.40	78.20	98.50	99.20	127.90	125.50	125.50	104.30
3606781.60	81.60	78.30	78.50	98.60	104.30	125.50	125.50	104.30	104.30
3606722.47	78.50	78.50	78.50	98.70	104.30	125.50	125.50	125.50	125.50
3606663.34	78.30	78.50	78.50	98.60	102.30	104.30	125.50	125.50	125.50
3606604.21	78.50	78.50	78.50	78.50	98.70	125.50	125.50	125.50	128.20
3606545.08	78.50	78.50	78.50	98.50	101.60	104.30	125.50	125.50	128.30
3606485.95	78.00	78.50	78.50	78.50	98.50	101.60	125.50	125.50	125.50
3606426.82	62.50	41.80	42.60	44.00	43.50	43.10	101.60	125.50	125.50
3606367.69	62.50	39.90	40.40	41.10	41.40	41.60	41.20	112.20	125.50
3606308.56	37.90	38.60	38.00	38.20	39.10	39.20	38.00	39.30	39.60
3606249.43	36.30	37.50	37.90	37.90	37.60	37.40	38.10	37.60	40.00
3606190.30	35.20	36.20	37.10	37.60	36.40	37.70	38.10	38.50	40.30
3606131.17	34.40	33.10	37.70	37.80	37.90	37.90	37.90	29.70	29.50
3606072.04	46.60	46.60	46.60	46.20	45.90	45.90	45.30	45.20	28.90

*** AERMOD - VERSION 21112 ***
*** AERMET - VERSION 14134 ***

*** C:\Lakes\AERMOD View\Shinohara HRA\Shinohara HRA.isc
*** Shinohara DPM Concentrations - 1 year

*** 08/04/21
*** 13:08:43
*** PAGE 29

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

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

(497063.6, 3606807.8,	78.2,	78.2,	0.0);	(496962.2, 3606775.4,	63.0,	81.6,	0.0);
(496960.6, 3606692.3,	61.2,	78.3,	0.0);	(496963.9, 3606567.3,	51.9,	78.3,	0.0);
(496956.1, 3606409.6,	41.7,	62.5,	0.0);	(496869.7, 3606414.9,	43.6,	62.5,	0.0);
(496768.2, 3606419.4,	45.8,	62.5,	0.0);	(496687.5, 3606578.0,	58.4,	58.4,	0.0);
(497159.2, 3606873.8,	77.5,	77.5,	0.0);	(496517.0, 3606174.8,	34.5,	42.3,	0.0);

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA\Shinohara HRA.isc
 *** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1 year

*** 08/04/21
 *** 13:08:43
 *** PAGE 37

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE SUMMARY OF MAXIMUM PERIOD (43872 HRS) RESULTS ***

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

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	1ST HIGHEST VALUE IS	0.01194	AT (497092.95, 3606663.34, 59.10, 78.50, 0.00)	GC	UCART1
	2ND HIGHEST VALUE IS	0.01045	AT (497092.95, 3606722.47, 64.10, 78.50, 0.00)	GC	UCART1
	3RD HIGHEST VALUE IS	0.00832	AT (497092.95, 3606604.21, 50.40, 78.50, 0.00)	GC	UCART1
	4TH HIGHEST VALUE IS	0.00830	AT (497152.55, 3606604.21, 53.50, 78.50, 0.00)	GC	UCART1
	5TH HIGHEST VALUE IS	0.00802	AT (497152.55, 3606663.34, 54.30, 98.60, 0.00)	GC	UCART1
	6TH HIGHEST VALUE IS	0.00752	AT (497152.55, 3606722.47, 57.30, 98.70, 0.00)	GC	UCART1
	7TH HIGHEST VALUE IS	0.00682	AT (497033.35, 3606663.34, 62.50, 78.50, 0.00)	GC	UCART1
	8TH HIGHEST VALUE IS	0.00616	AT (497033.35, 3606722.47, 63.80, 78.50, 0.00)	GC	UCART1
	9TH HIGHEST VALUE IS	0.00541	AT (497212.15, 3606545.08, 47.00, 101.60, 0.00)	GC	UCART1
	10TH HIGHEST VALUE IS	0.00527	AT (497212.15, 3606604.21, 52.20, 98.70, 0.00)	GC	UCART1

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

*** AERMOD - VERSION 21112 *** ** C:\Lakes\AERMOD View\Shinohara HRA\Shinohara HRA.isc
*** AERMET - VERSION 14134 *** ** Shinohara DPM Concentrations - 1 year

*** 08/04/21
*** 13:08:43
PAGE 38

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

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

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

A Total of 0 Fatal Error Message(s)
A Total of 6 Warning Message(s)
A Total of 16961 Informational Message(s)

A Total of 43872 Hours Were Processed

A Total of 13845 Calm Hours Identified

A Total of 3116 Missing Hours Identified (7.10 Percent)

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

***** WARNING MESSAGES *****
SO W320 1041 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 1042 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 1043 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 1044 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
MX W430 33748 METQA: Ambient Temperature Data Out-of-Range. KURDAT = 12110704
MX W430 33749 METQA: Ambient Temperature Data Out-of-Range. KURDAT = 12110705

*** AERMOD Finishes Successfully ***

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**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 10.0.1
** Lakes Environmental Software Inc.
** Date: 8/5/2021
** File: C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i
  TITLETWO Shinohara DPM Concentrations - 2 year
  MODELOPT DFAULT CONC
  AVERTIME PERIOD
  POLLUTID DPM
  RUNORNOT RUN
  ERRORFIL "Shinohara HRA - 2 year.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 On-Site - Project Driveway to Loading Area
** PREFIX
** Length of Side = 3.28
** Configuration = Adjacent
** Emission Rate = 3.12E-06
** Elevated
** Vertical Dimension = 3.66
** SZINIT = 0.85
** Nodes = 5
** 497125.107, 3606563.656, 46.25, 0.00, 1.53
** 497116.635, 3606572.599, 46.24, 0.00, 1.53
** 497111.457, 3606587.191, 48.45, 0.00, 1.53
** 497113.340, 3606656.851, 53.51, 0.00, 1.53

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** 497113.261, 3606777.752, 72.42, 0.00, 1.53

** -----

LOCATION	L0000838	VOLUME	497123.979	3606564.847	46.90
LOCATION	L0000839	VOLUME	497121.724	3606567.228	46.81
LOCATION	L0000840	VOLUME	497119.468	3606569.609	46.72
LOCATION	L0000841	VOLUME	497117.212	3606571.990	46.93
LOCATION	L0000842	VOLUME	497115.819	3606574.900	47.17
LOCATION	L0000843	VOLUME	497114.722	3606577.991	47.42
LOCATION	L0000844	VOLUME	497113.625	3606581.082	47.66
LOCATION	L0000845	VOLUME	497112.528	3606584.173	47.91
LOCATION	L0000846	VOLUME	497111.460	3606587.269	48.15
LOCATION	L0000847	VOLUME	497111.548	3606590.548	48.39
LOCATION	L0000848	VOLUME	497111.637	3606593.827	48.67
LOCATION	L0000849	VOLUME	497111.725	3606597.105	48.95
LOCATION	L0000850	VOLUME	497111.814	3606600.384	49.24
LOCATION	L0000851	VOLUME	497111.903	3606603.663	49.52
LOCATION	L0000852	VOLUME	497111.991	3606606.942	49.80
LOCATION	L0000853	VOLUME	497112.080	3606610.221	50.08
LOCATION	L0000854	VOLUME	497112.169	3606613.499	50.36
LOCATION	L0000855	VOLUME	497112.257	3606616.778	50.64
LOCATION	L0000856	VOLUME	497112.346	3606620.057	50.91
LOCATION	L0000857	VOLUME	497112.434	3606623.336	51.21
LOCATION	L0000858	VOLUME	497112.523	3606626.615	51.52
LOCATION	L0000859	VOLUME	497112.612	3606629.894	51.83
LOCATION	L0000860	VOLUME	497112.700	3606633.172	52.14
LOCATION	L0000861	VOLUME	497112.789	3606636.451	52.44
LOCATION	L0000862	VOLUME	497112.877	3606639.730	52.74
LOCATION	L0000863	VOLUME	497112.966	3606643.009	53.04
LOCATION	L0000864	VOLUME	497113.055	3606646.288	53.34
LOCATION	L0000865	VOLUME	497113.143	3606649.566	53.64
LOCATION	L0000866	VOLUME	497113.232	3606652.845	53.95
LOCATION	L0000867	VOLUME	497113.321	3606656.124	54.34
LOCATION	L0000868	VOLUME	497113.339	3606659.404	54.74
LOCATION	L0000869	VOLUME	497113.336	3606662.684	55.15
LOCATION	L0000870	VOLUME	497113.334	3606665.964	55.55
LOCATION	L0000871	VOLUME	497113.332	3606669.244	55.96
LOCATION	L0000872	VOLUME	497113.330	3606672.524	56.36
LOCATION	L0000873	VOLUME	497113.328	3606675.804	56.77
LOCATION	L0000874	VOLUME	497113.326	3606679.084	57.17
LOCATION	L0000875	VOLUME	497113.324	3606682.364	57.58
LOCATION	L0000876	VOLUME	497113.321	3606685.644	57.97
LOCATION	L0000877	VOLUME	497113.319	3606688.924	58.35
LOCATION	L0000878	VOLUME	497113.317	3606692.204	58.74
LOCATION	L0000879	VOLUME	497113.315	3606695.484	59.13
LOCATION	L0000880	VOLUME	497113.313	3606698.764	59.51
LOCATION	L0000881	VOLUME	497113.311	3606702.044	59.90
LOCATION	L0000882	VOLUME	497113.309	3606705.324	60.28
LOCATION	L0000883	VOLUME	497113.306	3606708.604	60.67
LOCATION	L0000884	VOLUME	497113.304	3606711.884	61.06
LOCATION	L0000885	VOLUME	497113.302	3606715.164	61.46
LOCATION	L0000886	VOLUME	497113.300	3606718.444	61.88

LOCATION	VOLUME	497113.298	3606721.724	62.30
LOCATION L0000887	VOLUME	497113.298	3606721.724	62.30
LOCATION L0000888	VOLUME	497113.296	3606725.004	62.72
LOCATION L0000889	VOLUME	497113.294	3606728.284	63.14
LOCATION L0000890	VOLUME	497113.291	3606731.564	63.56
LOCATION L0000891	VOLUME	497113.289	3606734.844	63.98
LOCATION L0000892	VOLUME	497113.287	3606738.124	64.40
LOCATION L0000893	VOLUME	497113.285	3606741.404	64.82
LOCATION L0000894	VOLUME	497113.283	3606744.684	65.25
LOCATION L0000895	VOLUME	497113.281	3606747.964	66.04
LOCATION L0000896	VOLUME	497113.279	3606751.244	66.83
LOCATION L0000897	VOLUME	497113.276	3606754.524	67.63
LOCATION L0000898	VOLUME	497113.274	3606757.804	68.42
LOCATION L0000899	VOLUME	497113.272	3606761.084	69.21
LOCATION L0000900	VOLUME	497113.270	3606764.364	70.01
LOCATION L0000901	VOLUME	497113.268	3606767.644	70.80
LOCATION L0000902	VOLUME	497113.266	3606770.924	71.59
LOCATION L0000903	VOLUME	497113.264	3606774.204	72.39
LOCATION L0000904	VOLUME	497113.261	3606777.484	72.87

** End of LINE VOLUME Source ID = SLINE1

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = SLINE2

** DESCRSRC Shinohara Lane from Project Driveway to Brandywine Ave

** PREFIX

** Length of Side = 3.28

** Configuration = Adjacent

** Emission Rate = 1.2E-06

** Elevated

** Vertical Dimension = 3.66

** SZINIT = 0.85

** Nodes = 3

** 497126.126, 3606562.573, 46.29, 0.00, 1.53

** 497128.006, 3606560.276, 46.47, 0.00, 1.53

** 497249.204, 3606559.551, 48.32, 0.00, 1.53

LOCATION	VOLUME	497127.165	3606561.304	46.94
LOCATION L0000905	VOLUME	497127.165	3606561.304	46.94
LOCATION L0000906	VOLUME	497129.958	3606560.264	47.13
LOCATION L0000907	VOLUME	497133.238	3606560.244	47.48
LOCATION L0000908	VOLUME	497136.517	3606560.225	47.83
LOCATION L0000909	VOLUME	497139.797	3606560.205	48.18
LOCATION L0000910	VOLUME	497143.077	3606560.186	48.53
LOCATION L0000911	VOLUME	497146.357	3606560.166	48.79
LOCATION L0000912	VOLUME	497149.637	3606560.146	48.69
LOCATION L0000913	VOLUME	497152.917	3606560.127	48.58
LOCATION L0000914	VOLUME	497156.197	3606560.107	48.47
LOCATION L0000915	VOLUME	497159.477	3606560.087	48.36
LOCATION L0000916	VOLUME	497162.757	3606560.068	48.26
LOCATION L0000917	VOLUME	497166.037	3606560.048	48.15
LOCATION L0000918	VOLUME	497169.317	3606560.029	48.04
LOCATION L0000919	VOLUME	497172.597	3606560.009	47.97
LOCATION L0000920	VOLUME	497175.877	3606559.989	48.02

LOCATION	VOLUME				
L0000921	497179.157	3606559.970	48.07		
L0000922	497182.437	3606559.950	48.11		
L0000923	497185.717	3606559.931	48.16		
L0000924	497188.997	3606559.911	48.21		
L0000925	497192.276	3606559.891	48.25		
L0000926	497195.556	3606559.872	48.30		
L0000927	497198.836	3606559.852	48.34		
L0000928	497202.116	3606559.832	48.36		
L0000929	497205.396	3606559.813	48.37		
L0000930	497208.676	3606559.793	48.39		
L0000931	497211.956	3606559.774	48.41		
L0000932	497215.236	3606559.754	48.43		
L0000933	497218.516	3606559.734	48.45		
L0000934	497221.796	3606559.715	48.47		
L0000935	497225.076	3606559.695	48.48		
L0000936	497228.356	3606559.676	48.46		
L0000937	497231.636	3606559.656	48.43		
L0000938	497234.916	3606559.636	48.41		
L0000939	497238.196	3606559.617	48.39		
L0000940	497241.476	3606559.597	48.37		
L0000941	497244.756	3606559.577	48.35		
L0000942	497248.035	3606559.558	48.32		

** End of LINE VOLUME Source ID = SLINE2

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = SLINE3

** DESCRSRC Brandywine Ave from Shinohara Lane to Main Street

** PREFIX

** Length of Side = 3.28

** Configuration = Adjacent

** Emission Rate = 1.69E-06

** Elevated

** Vertical Dimension = 3.66

** SZINIT = 0.85

** Nodes = 2

** 497249.977, 3606559.231, 48.32, 0.00, 1.53

** 497251.206, 3606385.124, 42.07, 0.00, 1.53

** -----

LOCATION	VOLUME				
L0000943	497249.989	3606557.591	48.25		
L0000944	497250.012	3606554.311	48.14		
L0000945	497250.035	3606551.032	48.03		
L0000946	497250.058	3606547.752	47.92		
L0000947	497250.082	3606544.472	47.81		
L0000948	497250.105	3606541.192	47.70		
L0000949	497250.128	3606537.912	47.59		
L0000950	497250.151	3606534.632	47.48		
L0000951	497250.174	3606531.352	47.37		
L0000952	497250.197	3606528.072	47.26		
L0000953	497250.220	3606524.792	47.14		
L0000954	497250.244	3606521.512	47.01		
L0000955	497250.267	3606518.232	46.89		

LOCATION	VOLUME				
L0000956	497250.290	3606514.952	46.77		
L0000957	497250.313	3606511.673	46.64		
L0000958	497250.336	3606508.393	46.52		
L0000959	497250.359	3606505.113	46.39		
L0000960	497250.382	3606501.833	46.27		
L0000961	497250.406	3606498.553	46.14		
L0000962	497250.429	3606495.273	45.99		
L0000963	497250.452	3606491.993	45.84		
L0000964	497250.475	3606488.713	45.69		
L0000965	497250.498	3606485.433	45.53		
L0000966	497250.521	3606482.153	45.38		
L0000967	497250.544	3606478.873	45.22		
L0000968	497250.567	3606475.593	45.07		
L0000969	497250.591	3606472.314	44.92		
L0000970	497250.614	3606469.034	44.76		
L0000971	497250.637	3606465.754	44.60		
L0000972	497250.660	3606462.474	44.42		
L0000973	497250.683	3606459.194	44.24		
L0000974	497250.706	3606455.914	44.07		
L0000975	497250.729	3606452.634	43.90		
L0000976	497250.753	3606449.354	43.72		
L0000977	497250.776	3606446.074	43.55		
L0000978	497250.799	3606442.794	43.38		
L0000979	497250.822	3606439.514	43.20		
L0000980	497250.845	3606436.234	43.03		
L0000981	497250.868	3606432.955	42.90		
L0000982	497250.891	3606429.675	42.76		
L0000983	497250.915	3606426.395	42.62		
L0000984	497250.938	3606423.115	42.48		
L0000985	497250.961	3606419.835	42.35		
L0000986	497250.984	3606416.555	42.21		
L0000987	497251.007	3606413.275	42.07		
L0000988	497251.030	3606409.995	41.94		
L0000989	497251.053	3606406.715	41.80		
L0000990	497251.077	3606403.435	41.79		
L0000991	497251.100	3606400.155	41.83		
L0000992	497251.123	3606396.875	41.86		
L0000993	497251.146	3606393.595	41.89		
L0000994	497251.169	3606390.316	41.93		
L0000995	497251.192	3606387.036	41.96		

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** End of LINE VOLUME Source ID = SLINE3
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE4
** DESCRSRC Main Street from Brandywine Ave to 805 freeway
** PREFIX
** Length of Side = 3.28
** Configuration = Adjacent
** Emission Rate = 5.73E-06
** Elevated
** Vertical Dimension = 3.66

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** SZINIT = 0.85
** Nodes = 2
** 497250.550, 3606383.877, 42.07, 0.00, 1.53
** 496658.774, 3606390.392, 39.20, 0.00, 1.53

LOCATION	L0001551	VOLUME	497248.910	3606383.895	41.98
LOCATION	L0001552	VOLUME	497245.630	3606383.931	42.02
LOCATION	L0001553	VOLUME	497242.350	3606383.967	42.06
LOCATION	L0001554	VOLUME	497239.071	3606384.003	42.10
LOCATION	L0001555	VOLUME	497235.791	3606384.040	42.14
LOCATION	L0001556	VOLUME	497232.511	3606384.076	42.18
LOCATION	L0001557	VOLUME	497229.231	3606384.112	42.22
LOCATION	L0001558	VOLUME	497225.951	3606384.148	42.26
LOCATION	L0001559	VOLUME	497222.672	3606384.184	42.29
LOCATION	L0001560	VOLUME	497219.392	3606384.220	42.28
LOCATION	L0001561	VOLUME	497216.112	3606384.256	42.27
LOCATION	L0001562	VOLUME	497212.832	3606384.292	42.26
LOCATION	L0001563	VOLUME	497209.552	3606384.328	42.25
LOCATION	L0001564	VOLUME	497206.273	3606384.365	42.25
LOCATION	L0001565	VOLUME	497202.993	3606384.401	42.24
LOCATION	L0001566	VOLUME	497199.713	3606384.437	42.23
LOCATION	L0001567	VOLUME	497196.433	3606384.473	42.22
LOCATION	L0001568	VOLUME	497193.153	3606384.509	42.21
LOCATION	L0001569	VOLUME	497189.874	3606384.545	42.21
LOCATION	L0001570	VOLUME	497186.594	3606384.581	42.20
LOCATION	L0001571	VOLUME	497183.314	3606384.617	42.19
LOCATION	L0001572	VOLUME	497180.034	3606384.653	42.19
LOCATION	L0001573	VOLUME	497176.754	3606384.690	42.18
LOCATION	L0001574	VOLUME	497173.475	3606384.726	42.17
LOCATION	L0001575	VOLUME	497170.195	3606384.762	42.18
LOCATION	L0001576	VOLUME	497166.915	3606384.798	42.18
LOCATION	L0001577	VOLUME	497163.635	3606384.834	42.19
LOCATION	L0001578	VOLUME	497160.355	3606384.870	42.20
LOCATION	L0001579	VOLUME	497157.076	3606384.906	42.21
LOCATION	L0001580	VOLUME	497153.796	3606384.942	42.22
LOCATION	L0001581	VOLUME	497150.516	3606384.978	42.23
LOCATION	L0001582	VOLUME	497147.236	3606385.015	42.24
LOCATION	L0001583	VOLUME	497143.956	3606385.051	42.19
LOCATION	L0001584	VOLUME	497140.677	3606385.087	42.08
LOCATION	L0001585	VOLUME	497137.397	3606385.123	41.96
LOCATION	L0001586	VOLUME	497134.117	3606385.159	41.85
LOCATION	L0001587	VOLUME	497130.837	3606385.195	41.73
LOCATION	L0001588	VOLUME	497127.557	3606385.231	41.62
LOCATION	L0001589	VOLUME	497124.278	3606385.267	41.50
LOCATION	L0001590	VOLUME	497120.998	3606385.303	41.38
LOCATION	L0001591	VOLUME	497117.718	3606385.340	41.35
LOCATION	L0001592	VOLUME	497114.438	3606385.376	41.36
LOCATION	L0001593	VOLUME	497111.158	3606385.412	41.38
LOCATION	L0001594	VOLUME	497107.879	3606385.448	41.40
LOCATION	L0001595	VOLUME	497104.599	3606385.484	41.42
LOCATION	L0001596	VOLUME	497101.319	3606385.520	41.44

LOCATION	L0001597	VOLUME	497098.039	3606385.556	41.46
LOCATION	L0001598	VOLUME	497094.759	3606385.592	41.48
LOCATION	L0001599	VOLUME	497091.480	3606385.628	41.39
LOCATION	L0001600	VOLUME	497088.200	3606385.665	41.24
LOCATION	L0001601	VOLUME	497084.920	3606385.701	41.09
LOCATION	L0001602	VOLUME	497081.640	3606385.737	40.94
LOCATION	L0001603	VOLUME	497078.360	3606385.773	40.79
LOCATION	L0001604	VOLUME	497075.080	3606385.809	40.64
LOCATION	L0001605	VOLUME	497071.801	3606385.845	40.49
LOCATION	L0001606	VOLUME	497068.521	3606385.881	40.33
LOCATION	L0001607	VOLUME	497065.241	3606385.917	40.33
LOCATION	L0001608	VOLUME	497061.961	3606385.953	40.40
LOCATION	L0001609	VOLUME	497058.681	3606385.990	40.46
LOCATION	L0001610	VOLUME	497055.402	3606386.026	40.53
LOCATION	L0001611	VOLUME	497052.122	3606386.062	40.60
LOCATION	L0001612	VOLUME	497048.842	3606386.098	40.67
LOCATION	L0001613	VOLUME	497045.562	3606386.134	40.74
LOCATION	L0001614	VOLUME	497042.282	3606386.170	40.81
LOCATION	L0001615	VOLUME	497039.003	3606386.206	40.83
LOCATION	L0001616	VOLUME	497035.723	3606386.242	40.82
LOCATION	L0001617	VOLUME	497032.443	3606386.278	40.82
LOCATION	L0001618	VOLUME	497029.163	3606386.314	40.81
LOCATION	L0001619	VOLUME	497025.883	3606386.351	40.81
LOCATION	L0001620	VOLUME	497022.604	3606386.387	40.81
LOCATION	L0001621	VOLUME	497019.324	3606386.423	40.80
LOCATION	L0001622	VOLUME	497016.044	3606386.459	40.80
LOCATION	L0001623	VOLUME	497012.764	3606386.495	40.79
LOCATION	L0001624	VOLUME	497009.484	3606386.531	40.78
LOCATION	L0001625	VOLUME	497006.205	3606386.567	40.76
LOCATION	L0001626	VOLUME	497002.925	3606386.603	40.75
LOCATION	L0001627	VOLUME	496999.645	3606386.639	40.74
LOCATION	L0001628	VOLUME	496996.365	3606386.676	40.72
LOCATION	L0001629	VOLUME	496993.085	3606386.712	40.71
LOCATION	L0001630	VOLUME	496989.806	3606386.748	40.70
LOCATION	L0001631	VOLUME	496986.526	3606386.784	40.67
LOCATION	L0001632	VOLUME	496983.246	3606386.820	40.64
LOCATION	L0001633	VOLUME	496979.966	3606386.856	40.62
LOCATION	L0001634	VOLUME	496976.686	3606386.892	40.59
LOCATION	L0001635	VOLUME	496973.407	3606386.928	40.56
LOCATION	L0001636	VOLUME	496970.127	3606386.964	40.53
LOCATION	L0001637	VOLUME	496966.847	3606387.001	40.50
LOCATION	L0001638	VOLUME	496963.567	3606387.037	40.47
LOCATION	L0001639	VOLUME	496960.287	3606387.073	40.45
LOCATION	L0001640	VOLUME	496957.008	3606387.109	40.43
LOCATION	L0001641	VOLUME	496953.728	3606387.145	40.40
LOCATION	L0001642	VOLUME	496950.448	3606387.181	40.38
LOCATION	L0001643	VOLUME	496947.168	3606387.217	40.36
LOCATION	L0001644	VOLUME	496943.888	3606387.253	40.34
LOCATION	L0001645	VOLUME	496940.609	3606387.289	40.32
LOCATION	L0001646	VOLUME	496937.329	3606387.326	40.29
LOCATION	L0001647	VOLUME	496934.049	3606387.362	40.43

LOCATION	L0001648	VOLUME	496930.769	3606387.398	40.57
LOCATION	L0001649	VOLUME	496927.489	3606387.434	40.71
LOCATION	L0001650	VOLUME	496924.210	3606387.470	40.85
LOCATION	L0001651	VOLUME	496920.930	3606387.506	40.99
LOCATION	L0001652	VOLUME	496917.650	3606387.542	41.13
LOCATION	L0001653	VOLUME	496914.370	3606387.578	41.28
LOCATION	L0001654	VOLUME	496911.090	3606387.614	41.42
LOCATION	L0001655	VOLUME	496907.811	3606387.651	41.48
LOCATION	L0001656	VOLUME	496904.531	3606387.687	41.53
LOCATION	L0001657	VOLUME	496901.251	3606387.723	41.59
LOCATION	L0001658	VOLUME	496897.971	3606387.759	41.64
LOCATION	L0001659	VOLUME	496894.691	3606387.795	41.70
LOCATION	L0001660	VOLUME	496891.412	3606387.831	41.75
LOCATION	L0001661	VOLUME	496888.132	3606387.867	41.81
LOCATION	L0001662	VOLUME	496884.852	3606387.903	41.86
LOCATION	L0001663	VOLUME	496881.572	3606387.939	41.91
LOCATION	L0001664	VOLUME	496878.292	3606387.976	41.95
LOCATION	L0001665	VOLUME	496875.013	3606388.012	42.00
LOCATION	L0001666	VOLUME	496871.733	3606388.048	42.04
LOCATION	L0001667	VOLUME	496868.453	3606388.084	42.09
LOCATION	L0001668	VOLUME	496865.173	3606388.120	42.13
LOCATION	L0001669	VOLUME	496861.893	3606388.156	42.17
LOCATION	L0001670	VOLUME	496858.614	3606388.192	42.22
LOCATION	L0001671	VOLUME	496855.334	3606388.228	42.26
LOCATION	L0001672	VOLUME	496852.054	3606388.264	42.30
LOCATION	L0001673	VOLUME	496848.774	3606388.301	42.35
LOCATION	L0001674	VOLUME	496845.494	3606388.337	42.39
LOCATION	L0001675	VOLUME	496842.215	3606388.373	42.43
LOCATION	L0001676	VOLUME	496838.935	3606388.409	42.48
LOCATION	L0001677	VOLUME	496835.655	3606388.445	42.52
LOCATION	L0001678	VOLUME	496832.375	3606388.481	42.56
LOCATION	L0001679	VOLUME	496829.095	3606388.517	42.61
LOCATION	L0001680	VOLUME	496825.816	3606388.553	42.65
LOCATION	L0001681	VOLUME	496822.536	3606388.589	42.70
LOCATION	L0001682	VOLUME	496819.256	3606388.626	42.74
LOCATION	L0001683	VOLUME	496815.976	3606388.662	42.79
LOCATION	L0001684	VOLUME	496812.696	3606388.698	42.83
LOCATION	L0001685	VOLUME	496809.417	3606388.734	42.88
LOCATION	L0001686	VOLUME	496806.137	3606388.770	42.92
LOCATION	L0001687	VOLUME	496802.857	3606388.806	42.94
LOCATION	L0001688	VOLUME	496799.577	3606388.842	42.97
LOCATION	L0001689	VOLUME	496796.297	3606388.878	43.00
LOCATION	L0001690	VOLUME	496793.018	3606388.914	43.03
LOCATION	L0001691	VOLUME	496789.738	3606388.951	43.06
LOCATION	L0001692	VOLUME	496786.458	3606388.987	43.09
LOCATION	L0001693	VOLUME	496783.178	3606389.023	43.12
LOCATION	L0001694	VOLUME	496779.898	3606389.059	43.13
LOCATION	L0001695	VOLUME	496776.619	3606389.095	43.06
LOCATION	L0001696	VOLUME	496773.339	3606389.131	42.99
LOCATION	L0001697	VOLUME	496770.059	3606389.167	42.92
LOCATION	L0001698	VOLUME	496766.779	3606389.203	42.85

LOCATION	L0001699	VOLUME	496763.499	3606389.239	42.78
LOCATION	L0001700	VOLUME	496760.220	3606389.276	42.71
LOCATION	L0001701	VOLUME	496756.940	3606389.312	42.64
LOCATION	L0001702	VOLUME	496753.660	3606389.348	42.57
LOCATION	L0001703	VOLUME	496750.380	3606389.384	42.49
LOCATION	L0001704	VOLUME	496747.100	3606389.420	42.42
LOCATION	L0001705	VOLUME	496743.821	3606389.456	42.35
LOCATION	L0001706	VOLUME	496740.541	3606389.492	42.27
LOCATION	L0001707	VOLUME	496737.261	3606389.528	42.20
LOCATION	L0001708	VOLUME	496733.981	3606389.564	42.12
LOCATION	L0001709	VOLUME	496730.701	3606389.601	42.05
LOCATION	L0001710	VOLUME	496727.422	3606389.637	41.95
LOCATION	L0001711	VOLUME	496724.142	3606389.673	41.82
LOCATION	L0001712	VOLUME	496720.862	3606389.709	41.69
LOCATION	L0001713	VOLUME	496717.582	3606389.745	41.56
LOCATION	L0001714	VOLUME	496714.302	3606389.781	41.43
LOCATION	L0001715	VOLUME	496711.023	3606389.817	41.29
LOCATION	L0001716	VOLUME	496707.743	3606389.853	41.16
LOCATION	L0001717	VOLUME	496704.463	3606389.889	41.03
LOCATION	L0001718	VOLUME	496701.183	3606389.926	40.89
LOCATION	L0001719	VOLUME	496697.903	3606389.962	40.73
LOCATION	L0001720	VOLUME	496694.624	3606389.998	40.57
LOCATION	L0001721	VOLUME	496691.344	3606390.034	40.41
LOCATION	L0001722	VOLUME	496688.064	3606390.070	40.26
LOCATION	L0001723	VOLUME	496684.784	3606390.106	40.10
LOCATION	L0001724	VOLUME	496681.504	3606390.142	39.94
LOCATION	L0001725	VOLUME	496678.225	3606390.178	39.78
LOCATION	L0001726	VOLUME	496674.945	3606390.214	39.66
LOCATION	L0001727	VOLUME	496671.665	3606390.251	39.58
LOCATION	L0001728	VOLUME	496668.385	3606390.287	39.51
LOCATION	L0001729	VOLUME	496665.105	3606390.323	39.43
LOCATION	L0001730	VOLUME	496661.826	3606390.359	39.36
** End of LINE VOLUME Source ID = SLINE4					
LOCATION	STCK1	POINT	497086.160	3606629.320	54.370
** DESCRSRC Idle Position 1					
LOCATION	STCK2	POINT	497085.270	3606660.680	59.380
** DESCRSRC Idle Position 2					
LOCATION	STCK3	POINT	497085.940	3606691.590	62.580
** DESCRSRC Idle Position 3					
LOCATION	STCK4	POINT	497086.160	3606731.400	64.210
** DESCRSRC Idle Position 4					
** -----					
** Line Source Represented by Adjacent Volume Sources					
** LINE VOLUME Source ID = SLINE5					
** DESCRSRC 805 Freeway Northbound Ramp					
** PREFIX					
** Length of Side = 3.28					
** Configuration = Adjacent					
** Emission Rate = 1.32E-06					
** Elevated					
** Vertical Dimension = 3.66					

** SZINIT = 0.85
** Nodes = 3
** 496660.808, 3606392.737, 39.18, 0.00, 1.53
** 496656.048, 3606447.305, 40.21, 0.00, 1.53
** 496635.811, 3606665.221, 55.96, 0.00, 1.53

** LOCATION L0001176 VOLUME 496660.665 3606394.370 39.32
LOCATION L0001177 VOLUME 496660.380 3606397.638 39.30
LOCATION L0001178 VOLUME 496660.095 3606400.906 39.28
LOCATION L0001179 VOLUME 496659.810 3606404.173 39.26
LOCATION L0001180 VOLUME 496659.525 3606407.441 39.33
LOCATION L0001181 VOLUME 496659.240 3606410.708 39.51
LOCATION L0001182 VOLUME 496658.955 3606413.976 39.67
LOCATION L0001183 VOLUME 496658.670 3606417.244 39.83
LOCATION L0001184 VOLUME 496658.385 3606420.511 39.97
LOCATION L0001185 VOLUME 496658.100 3606423.779 40.11
LOCATION L0001186 VOLUME 496657.815 3606427.046 40.23
LOCATION L0001187 VOLUME 496657.530 3606430.314 40.34
LOCATION L0001188 VOLUME 496657.245 3606433.581 40.44
LOCATION L0001189 VOLUME 496656.960 3606436.849 40.53
LOCATION L0001190 VOLUME 496656.675 3606440.117 40.67
LOCATION L0001191 VOLUME 496656.390 3606443.384 40.80
LOCATION L0001192 VOLUME 496656.105 3606446.652 40.93
LOCATION L0001193 VOLUME 496655.805 3606449.918 41.04
LOCATION L0001194 VOLUME 496655.502 3606453.184 41.14
LOCATION L0001195 VOLUME 496655.198 3606456.450 41.24
LOCATION L0001196 VOLUME 496654.895 3606459.716 41.33
LOCATION L0001197 VOLUME 496654.592 3606462.982 41.41
LOCATION L0001198 VOLUME 496654.288 3606466.248 41.48
LOCATION L0001199 VOLUME 496653.985 3606469.514 41.57
LOCATION L0001200 VOLUME 496653.682 3606472.780 41.67
LOCATION L0001201 VOLUME 496653.379 3606476.046 41.77
LOCATION L0001202 VOLUME 496653.075 3606479.312 41.86
LOCATION L0001203 VOLUME 496652.772 3606482.578 41.96
LOCATION L0001204 VOLUME 496652.469 3606485.844 42.04
LOCATION L0001205 VOLUME 496652.165 3606489.109 42.13
LOCATION L0001206 VOLUME 496651.862 3606492.375 42.21
LOCATION L0001207 VOLUME 496651.559 3606495.641 42.29
LOCATION L0001208 VOLUME 496651.255 3606498.907 42.39
LOCATION L0001209 VOLUME 496650.952 3606502.173 42.58
LOCATION L0001210 VOLUME 496650.649 3606505.439 42.77
LOCATION L0001211 VOLUME 496650.346 3606508.705 43.03
LOCATION L0001212 VOLUME 496650.042 3606511.971 43.39
LOCATION L0001213 VOLUME 496649.739 3606515.237 43.75
LOCATION L0001214 VOLUME 496649.436 3606518.503 44.10
LOCATION L0001215 VOLUME 496649.132 3606521.769 44.44
LOCATION L0001216 VOLUME 496648.829 3606525.035 44.78
LOCATION L0001217 VOLUME 496648.526 3606528.301 45.12
LOCATION L0001218 VOLUME 496648.223 3606531.567 45.39
LOCATION L0001219 VOLUME 496647.919 3606534.833 45.64
LOCATION L0001220 VOLUME 496647.616 3606538.099 45.89

LOCATION	VOLUME				
L0001221	496647.313	3606541.365	46.13		
L0001222	496647.009	3606544.631	46.37		
L0001223	496646.706	3606547.897	46.61		
L0001224	496646.403	3606551.162	46.84		
L0001225	496646.099	3606554.428	47.07		
L0001226	496645.796	3606557.694	47.29		
L0001227	496645.493	3606560.960	47.56		
L0001228	496645.190	3606564.226	47.96		
L0001229	496644.886	3606567.492	48.35		
L0001230	496644.583	3606570.758	48.72		
L0001231	496644.280	3606574.024	49.09		
L0001232	496643.976	3606577.290	49.46		
L0001233	496643.673	3606580.556	49.81		
L0001234	496643.370	3606583.822	50.16		
L0001235	496643.066	3606587.088	50.50		
L0001236	496642.763	3606590.354	50.83		
L0001237	496642.460	3606593.620	51.19		
L0001238	496642.157	3606596.886	51.55		
L0001239	496641.853	3606600.152	51.89		
L0001240	496641.550	3606603.418	52.23		
L0001241	496641.247	3606606.684	52.56		
L0001242	496640.943	3606609.950	52.88		
L0001243	496640.640	3606613.215	53.19		
L0001244	496640.337	3606616.481	53.49		
L0001245	496640.034	3606619.747	53.78		
L0001246	496639.730	3606623.013	54.04		
L0001247	496639.427	3606626.279	54.27		
L0001248	496639.124	3606629.545	54.50		
L0001249	496638.820	3606632.811	54.71		
L0001250	496638.517	3606636.077	54.93		
L0001251	496638.214	3606639.343	55.14		
L0001252	496637.910	3606642.609	55.34		
L0001253	496637.607	3606645.875	55.54		
L0001254	496637.304	3606649.141	55.73		
L0001255	496637.001	3606652.407	55.92		
L0001256	496636.697	3606655.673	56.04		
L0001257	496636.394	3606658.939	56.15		
L0001258	496636.091	3606662.205	56.26		

```

** End of LINE VOLUME Source ID = SLINE5
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE6
** DESCRSRC Main Street from 805 NB Ramp to SB Ramp
** PREFIX
** Length of Side = 3.28
** Configuration = Adjacent
** Emission Rate = 5.9E-07
** Elevated
** Vertical Dimension = 3.66
** SZINIT = 0.85
** Nodes = 2

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** 496657.542, 3606389.788, 39.21, 0.00, 1.53
** 496535.861, 3606385.384, 39.14, 0.00, 1.53

** -----
LOCATION L0001259 VOLUME 496655.903 3606389.729 39.23
LOCATION L0001260 VOLUME 496652.625 3606389.610 39.16
LOCATION L0001261 VOLUME 496649.347 3606389.492 39.21
LOCATION L0001262 VOLUME 496646.069 3606389.373 39.53
LOCATION L0001263 VOLUME 496642.791 3606389.254 39.85
LOCATION L0001264 VOLUME 496639.514 3606389.136 40.15
LOCATION L0001265 VOLUME 496636.236 3606389.017 40.46
LOCATION L0001266 VOLUME 496632.958 3606388.898 40.75
LOCATION L0001267 VOLUME 496629.680 3606388.780 41.04
LOCATION L0001268 VOLUME 496626.402 3606388.661 41.33
LOCATION L0001269 VOLUME 496623.124 3606388.542 41.55
LOCATION L0001270 VOLUME 496619.846 3606388.424 41.66
LOCATION L0001271 VOLUME 496616.569 3606388.305 41.77
LOCATION L0001272 VOLUME 496613.291 3606388.186 41.88
LOCATION L0001273 VOLUME 496610.013 3606388.068 41.99
LOCATION L0001274 VOLUME 496606.735 3606387.949 42.09
LOCATION L0001275 VOLUME 496603.457 3606387.830 42.19
LOCATION L0001276 VOLUME 496600.179 3606387.712 42.29
LOCATION L0001277 VOLUME 496596.901 3606387.593 42.32
LOCATION L0001278 VOLUME 496593.624 3606387.475 42.28
LOCATION L0001279 VOLUME 496590.346 3606387.356 42.23
LOCATION L0001280 VOLUME 496587.068 3606387.237 42.18
LOCATION L0001281 VOLUME 496583.790 3606387.119 42.14
LOCATION L0001282 VOLUME 496580.512 3606387.000 42.09
LOCATION L0001283 VOLUME 496577.234 3606386.881 42.05
LOCATION L0001284 VOLUME 496573.956 3606386.763 42.00
LOCATION L0001285 VOLUME 496570.679 3606386.644 41.79
LOCATION L0001286 VOLUME 496567.401 3606386.525 41.41
LOCATION L0001287 VOLUME 496564.123 3606386.407 41.03
LOCATION L0001288 VOLUME 496560.845 3606386.288 40.66
LOCATION L0001289 VOLUME 496557.567 3606386.169 40.30
LOCATION L0001290 VOLUME 496554.289 3606386.051 39.94
LOCATION L0001291 VOLUME 496551.012 3606385.932 39.60
LOCATION L0001292 VOLUME 496547.734 3606385.814 39.26
LOCATION L0001293 VOLUME 496544.456 3606385.695 39.15
LOCATION L0001294 VOLUME 496541.178 3606385.576 39.26
LOCATION L0001295 VOLUME 496537.900 3606385.458 39.37

** End of LINE VOLUME Source ID = SLINE6

** -----
** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = SLINE7

** DESCRSRC 805 SB Ramp

** PREFIX

** Length of Side = 3.28

** Configuration = Adjacent

** Emission Rate = 1.2E-06

** Elevated

** Vertical Dimension = 3.66

** SZINIT = 0.85
** Nodes = 2
** 496537.129, 3606382.811, 39.16, 0.00, 1.53
** 496567.248, 3606137.652, 39.35, 0.00, 1.53

LOCATION	L0001296	VOLUME	496537.329	3606381.184	39.30
LOCATION	L0001297	VOLUME	496537.729	3606377.928	39.24
LOCATION	L0001298	VOLUME	496538.129	3606374.673	39.17
LOCATION	L0001299	VOLUME	496538.529	3606371.417	39.08
LOCATION	L0001300	VOLUME	496538.929	3606368.161	39.00
LOCATION	L0001301	VOLUME	496539.329	3606364.906	38.92
LOCATION	L0001302	VOLUME	496539.729	3606361.650	38.84
LOCATION	L0001303	VOLUME	496540.129	3606358.395	38.76
LOCATION	L0001304	VOLUME	496540.529	3606355.139	38.69
LOCATION	L0001305	VOLUME	496540.929	3606351.884	38.62
LOCATION	L0001306	VOLUME	496541.329	3606348.628	38.55
LOCATION	L0001307	VOLUME	496541.729	3606345.373	38.49
LOCATION	L0001308	VOLUME	496542.129	3606342.117	38.48
LOCATION	L0001309	VOLUME	496542.529	3606338.862	38.48
LOCATION	L0001310	VOLUME	496542.929	3606335.606	38.50
LOCATION	L0001311	VOLUME	496543.329	3606332.351	38.51
LOCATION	L0001312	VOLUME	496543.728	3606329.095	38.53
LOCATION	L0001313	VOLUME	496544.128	3606325.840	38.55
LOCATION	L0001314	VOLUME	496544.528	3606322.584	38.58
LOCATION	L0001315	VOLUME	496544.928	3606319.329	38.61
LOCATION	L0001316	VOLUME	496545.328	3606316.073	38.64
LOCATION	L0001317	VOLUME	496545.728	3606312.818	38.69
LOCATION	L0001318	VOLUME	496546.128	3606309.562	38.77
LOCATION	L0001319	VOLUME	496546.528	3606306.307	38.91
LOCATION	L0001320	VOLUME	496546.928	3606303.051	39.04
LOCATION	L0001321	VOLUME	496547.328	3606299.795	39.17
LOCATION	L0001322	VOLUME	496547.728	3606296.540	39.30
LOCATION	L0001323	VOLUME	496548.128	3606293.284	39.42
LOCATION	L0001324	VOLUME	496548.528	3606290.029	39.54
LOCATION	L0001325	VOLUME	496548.928	3606286.773	39.65
LOCATION	L0001326	VOLUME	496549.328	3606283.518	39.76
LOCATION	L0001327	VOLUME	496549.728	3606280.262	39.87
LOCATION	L0001328	VOLUME	496550.128	3606277.007	39.99
LOCATION	L0001329	VOLUME	496550.528	3606273.751	40.09
LOCATION	L0001330	VOLUME	496550.928	3606270.496	40.20
LOCATION	L0001331	VOLUME	496551.328	3606267.240	40.30
LOCATION	L0001332	VOLUME	496551.728	3606263.985	40.39
LOCATION	L0001333	VOLUME	496552.128	3606260.729	40.48
LOCATION	L0001334	VOLUME	496552.528	3606257.474	40.57
LOCATION	L0001335	VOLUME	496552.928	3606254.218	40.65
LOCATION	L0001336	VOLUME	496553.328	3606250.963	40.67
LOCATION	L0001337	VOLUME	496553.727	3606247.707	40.59
LOCATION	L0001338	VOLUME	496554.127	3606244.452	40.50
LOCATION	L0001339	VOLUME	496554.527	3606241.196	40.42
LOCATION	L0001340	VOLUME	496554.927	3606237.941	40.34
LOCATION	L0001341	VOLUME	496555.327	3606234.685	40.27

LOCATION	VOLUME	496555.727	3606231.429	40.19
LOCATION L0001342	VOLUME	496555.727	3606231.429	40.19
LOCATION L0001343	VOLUME	496556.127	3606228.174	40.12
LOCATION L0001344	VOLUME	496556.527	3606224.918	40.05
LOCATION L0001345	VOLUME	496556.927	3606221.663	39.99
LOCATION L0001346	VOLUME	496557.327	3606218.407	39.91
LOCATION L0001347	VOLUME	496557.727	3606215.152	39.83
LOCATION L0001348	VOLUME	496558.127	3606211.896	39.76
LOCATION L0001349	VOLUME	496558.527	3606208.641	39.68
LOCATION L0001350	VOLUME	496558.927	3606205.385	39.62
LOCATION L0001351	VOLUME	496559.327	3606202.130	39.55
LOCATION L0001352	VOLUME	496559.727	3606198.874	39.49
LOCATION L0001353	VOLUME	496560.127	3606195.619	39.43
LOCATION L0001354	VOLUME	496560.527	3606192.363	39.38
LOCATION L0001355	VOLUME	496560.927	3606189.108	39.32
LOCATION L0001356	VOLUME	496561.327	3606185.852	39.27
LOCATION L0001357	VOLUME	496561.727	3606182.597	39.22
LOCATION L0001358	VOLUME	496562.127	3606179.341	39.17
LOCATION L0001359	VOLUME	496562.527	3606176.086	39.13
LOCATION L0001360	VOLUME	496562.927	3606172.830	39.09
LOCATION L0001361	VOLUME	496563.326	3606169.575	39.05
LOCATION L0001362	VOLUME	496563.726	3606166.319	39.02
LOCATION L0001363	VOLUME	496564.126	3606163.063	39.00
LOCATION L0001364	VOLUME	496564.526	3606159.808	38.97
LOCATION L0001365	VOLUME	496564.926	3606156.552	38.98
LOCATION L0001366	VOLUME	496565.326	3606153.297	38.99
LOCATION L0001367	VOLUME	496565.726	3606150.041	39.00
LOCATION L0001368	VOLUME	496566.126	3606146.786	39.01
LOCATION L0001369	VOLUME	496566.526	3606143.530	39.03
LOCATION L0001370	VOLUME	496566.926	3606140.275	39.04

** End of LINE VOLUME Source ID = SLINE7

** Source Parameters **

** LINE VOLUME Source ID = SLINE1

SRCPARAM	VOLUME	0.00000004657	0.00	1.53	0.85
SRCPARAM L0000838	VOLUME	0.00000004657	0.00	1.53	0.85
SRCPARAM L0000839	VOLUME	0.00000004657	0.00	1.53	0.85
SRCPARAM L0000840	VOLUME	0.00000004657	0.00	1.53	0.85
SRCPARAM L0000841	VOLUME	0.00000004657	0.00	1.53	0.85
SRCPARAM L0000842	VOLUME	0.00000004657	0.00	1.53	0.85
SRCPARAM L0000843	VOLUME	0.00000004657	0.00	1.53	0.85
SRCPARAM L0000844	VOLUME	0.00000004657	0.00	1.53	0.85
SRCPARAM L0000845	VOLUME	0.00000004657	0.00	1.53	0.85
SRCPARAM L0000846	VOLUME	0.00000004657	0.00	1.53	0.85
SRCPARAM L0000847	VOLUME	0.00000004657	0.00	1.53	0.85
SRCPARAM L0000848	VOLUME	0.00000004657	0.00	1.53	0.85
SRCPARAM L0000849	VOLUME	0.00000004657	0.00	1.53	0.85
SRCPARAM L0000850	VOLUME	0.00000004657	0.00	1.53	0.85
SRCPARAM L0000851	VOLUME	0.00000004657	0.00	1.53	0.85
SRCPARAM L0000852	VOLUME	0.00000004657	0.00	1.53	0.85
SRCPARAM L0000853	VOLUME	0.00000004657	0.00	1.53	0.85
SRCPARAM L0000854	VOLUME	0.00000004657	0.00	1.53	0.85
SRCPARAM L0000855	VOLUME	0.00000004657	0.00	1.53	0.85
SRCPARAM L0000856	VOLUME	0.00000004657	0.00	1.53	0.85

SRCPARAM	L0000906	0.00000003158	0.00	1.53	0.85
SRCPARAM	L0000907	0.00000003158	0.00	1.53	0.85
SRCPARAM	L0000908	0.00000003158	0.00	1.53	0.85
SRCPARAM	L0000909	0.00000003158	0.00	1.53	0.85
SRCPARAM	L0000910	0.00000003158	0.00	1.53	0.85
SRCPARAM	L0000911	0.00000003158	0.00	1.53	0.85
SRCPARAM	L0000912	0.00000003158	0.00	1.53	0.85
SRCPARAM	L0000913	0.00000003158	0.00	1.53	0.85
SRCPARAM	L0000914	0.00000003158	0.00	1.53	0.85
SRCPARAM	L0000915	0.00000003158	0.00	1.53	0.85
SRCPARAM	L0000916	0.00000003158	0.00	1.53	0.85
SRCPARAM	L0000917	0.00000003158	0.00	1.53	0.85
SRCPARAM	L0000918	0.00000003158	0.00	1.53	0.85
SRCPARAM	L0000919	0.00000003158	0.00	1.53	0.85
SRCPARAM	L0000920	0.00000003158	0.00	1.53	0.85
SRCPARAM	L0000921	0.00000003158	0.00	1.53	0.85
SRCPARAM	L0000922	0.00000003158	0.00	1.53	0.85
SRCPARAM	L0000923	0.00000003158	0.00	1.53	0.85
SRCPARAM	L0000924	0.00000003158	0.00	1.53	0.85
SRCPARAM	L0000925	0.00000003158	0.00	1.53	0.85
SRCPARAM	L0000926	0.00000003158	0.00	1.53	0.85
SRCPARAM	L0000927	0.00000003158	0.00	1.53	0.85
SRCPARAM	L0000928	0.00000003158	0.00	1.53	0.85
SRCPARAM	L0000929	0.00000003158	0.00	1.53	0.85
SRCPARAM	L0000930	0.00000003158	0.00	1.53	0.85
SRCPARAM	L0000931	0.00000003158	0.00	1.53	0.85
SRCPARAM	L0000932	0.00000003158	0.00	1.53	0.85
SRCPARAM	L0000933	0.00000003158	0.00	1.53	0.85
SRCPARAM	L0000934	0.00000003158	0.00	1.53	0.85
SRCPARAM	L0000935	0.00000003158	0.00	1.53	0.85
SRCPARAM	L0000936	0.00000003158	0.00	1.53	0.85
SRCPARAM	L0000937	0.00000003158	0.00	1.53	0.85
SRCPARAM	L0000938	0.00000003158	0.00	1.53	0.85
SRCPARAM	L0000939	0.00000003158	0.00	1.53	0.85
SRCPARAM	L0000940	0.00000003158	0.00	1.53	0.85
SRCPARAM	L0000941	0.00000003158	0.00	1.53	0.85
SRCPARAM	L0000942	0.00000003158	0.00	1.53	0.85

**

 ** LINE VOLUME Source ID = SLINE3

SRCPARAM	L0000943	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000944	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000945	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000946	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000947	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000948	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000949	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000950	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000951	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000952	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000953	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000954	0.00000003189	0.00	1.53	0.85

SRCPARAM	L0000955	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000956	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000957	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000958	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000959	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000960	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000961	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000962	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000963	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000964	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000965	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000966	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000967	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000968	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000969	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000970	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000971	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000972	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000973	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000974	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000975	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000976	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000977	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000978	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000979	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000980	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000981	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000982	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000983	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000984	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000985	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000986	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000987	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000988	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000989	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000990	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000991	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000992	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000993	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000994	0.00000003189	0.00	1.53	0.85
SRCPARAM	L0000995	0.00000003189	0.00	1.53	0.85

**

 ** LINE VOLUME Source ID = SLINE4

SRCPARAM	L0001551	0.00000003183	0.00	1.53	0.85
SRCPARAM	L0001552	0.00000003183	0.00	1.53	0.85
SRCPARAM	L0001553	0.00000003183	0.00	1.53	0.85
SRCPARAM	L0001554	0.00000003183	0.00	1.53	0.85
SRCPARAM	L0001555	0.00000003183	0.00	1.53	0.85
SRCPARAM	L0001556	0.00000003183	0.00	1.53	0.85
SRCPARAM	L0001557	0.00000003183	0.00	1.53	0.85
SRCPARAM	L0001558	0.00000003183	0.00	1.53	0.85

SRCPARAM	L0001712	0.00000003183	0.00	1.53	0.85
SRCPARAM	L0001713	0.00000003183	0.00	1.53	0.85
SRCPARAM	L0001714	0.00000003183	0.00	1.53	0.85
SRCPARAM	L0001715	0.00000003183	0.00	1.53	0.85
SRCPARAM	L0001716	0.00000003183	0.00	1.53	0.85
SRCPARAM	L0001717	0.00000003183	0.00	1.53	0.85
SRCPARAM	L0001718	0.00000003183	0.00	1.53	0.85
SRCPARAM	L0001719	0.00000003183	0.00	1.53	0.85
SRCPARAM	L0001720	0.00000003183	0.00	1.53	0.85
SRCPARAM	L0001721	0.00000003183	0.00	1.53	0.85
SRCPARAM	L0001722	0.00000003183	0.00	1.53	0.85
SRCPARAM	L0001723	0.00000003183	0.00	1.53	0.85
SRCPARAM	L0001724	0.00000003183	0.00	1.53	0.85
SRCPARAM	L0001725	0.00000003183	0.00	1.53	0.85
SRCPARAM	L0001726	0.00000003183	0.00	1.53	0.85
SRCPARAM	L0001727	0.00000003183	0.00	1.53	0.85
SRCPARAM	L0001728	0.00000003183	0.00	1.53	0.85
SRCPARAM	L0001729	0.00000003183	0.00	1.53	0.85
SRCPARAM	L0001730	0.00000003183	0.00	1.53	0.85

**-----

SRCPARAM	STCK1	8.36E-06	3.658	366.000	51.90000	0.100
SRCPARAM	STCK2	8.36E-06	3.658	366.000	51.90000	0.100
SRCPARAM	STCK3	8.36E-06	3.658	366.000	551.90000	0.100
SRCPARAM	STCK4	8.36E-06	3.658	366.000	51.90000	0.100

** LINE VOLUME Source ID = SLINES5

SRCPARAM	L0001176	0.0000000159	0.00	1.53	0.85
SRCPARAM	L0001177	0.0000000159	0.00	1.53	0.85
SRCPARAM	L0001178	0.0000000159	0.00	1.53	0.85
SRCPARAM	L0001179	0.0000000159	0.00	1.53	0.85
SRCPARAM	L0001180	0.0000000159	0.00	1.53	0.85
SRCPARAM	L0001181	0.0000000159	0.00	1.53	0.85
SRCPARAM	L0001182	0.0000000159	0.00	1.53	0.85
SRCPARAM	L0001183	0.0000000159	0.00	1.53	0.85
SRCPARAM	L0001184	0.0000000159	0.00	1.53	0.85
SRCPARAM	L0001185	0.0000000159	0.00	1.53	0.85
SRCPARAM	L0001186	0.0000000159	0.00	1.53	0.85
SRCPARAM	L0001187	0.0000000159	0.00	1.53	0.85
SRCPARAM	L0001188	0.0000000159	0.00	1.53	0.85
SRCPARAM	L0001189	0.0000000159	0.00	1.53	0.85
SRCPARAM	L0001190	0.0000000159	0.00	1.53	0.85
SRCPARAM	L0001191	0.0000000159	0.00	1.53	0.85
SRCPARAM	L0001192	0.0000000159	0.00	1.53	0.85
SRCPARAM	L0001193	0.0000000159	0.00	1.53	0.85
SRCPARAM	L0001194	0.0000000159	0.00	1.53	0.85
SRCPARAM	L0001195	0.0000000159	0.00	1.53	0.85
SRCPARAM	L0001196	0.0000000159	0.00	1.53	0.85
SRCPARAM	L0001197	0.0000000159	0.00	1.53	0.85
SRCPARAM	L0001198	0.0000000159	0.00	1.53	0.85
SRCPARAM	L0001199	0.0000000159	0.00	1.53	0.85
SRCPARAM	L0001200	0.0000000159	0.00	1.53	0.85
SRCPARAM	L0001201	0.0000000159	0.00	1.53	0.85

SRCPARAM	L0001253	0.0000000159	0.00	1.53	0.85
SRCPARAM	L0001254	0.0000000159	0.00	1.53	0.85
SRCPARAM	L0001255	0.0000000159	0.00	1.53	0.85
SRCPARAM	L0001256	0.0000000159	0.00	1.53	0.85
SRCPARAM	L0001257	0.0000000159	0.00	1.53	0.85
SRCPARAM	L0001258	0.0000000159	0.00	1.53	0.85

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** LINE VOLUME Source ID = SLINE6

SRCPARAM	L0001259	0.00000001595	0.00	1.53	0.85
SRCPARAM	L0001260	0.00000001595	0.00	1.53	0.85
SRCPARAM	L0001261	0.00000001595	0.00	1.53	0.85
SRCPARAM	L0001262	0.00000001595	0.00	1.53	0.85
SRCPARAM	L0001263	0.00000001595	0.00	1.53	0.85
SRCPARAM	L0001264	0.00000001595	0.00	1.53	0.85
SRCPARAM	L0001265	0.00000001595	0.00	1.53	0.85
SRCPARAM	L0001266	0.00000001595	0.00	1.53	0.85
SRCPARAM	L0001267	0.00000001595	0.00	1.53	0.85
SRCPARAM	L0001268	0.00000001595	0.00	1.53	0.85
SRCPARAM	L0001269	0.00000001595	0.00	1.53	0.85
SRCPARAM	L0001270	0.00000001595	0.00	1.53	0.85
SRCPARAM	L0001271	0.00000001595	0.00	1.53	0.85
SRCPARAM	L0001272	0.00000001595	0.00	1.53	0.85
SRCPARAM	L0001273	0.00000001595	0.00	1.53	0.85
SRCPARAM	L0001274	0.00000001595	0.00	1.53	0.85
SRCPARAM	L0001275	0.00000001595	0.00	1.53	0.85
SRCPARAM	L0001276	0.00000001595	0.00	1.53	0.85
SRCPARAM	L0001277	0.00000001595	0.00	1.53	0.85
SRCPARAM	L0001278	0.00000001595	0.00	1.53	0.85
SRCPARAM	L0001279	0.00000001595	0.00	1.53	0.85
SRCPARAM	L0001280	0.00000001595	0.00	1.53	0.85
SRCPARAM	L0001281	0.00000001595	0.00	1.53	0.85
SRCPARAM	L0001282	0.00000001595	0.00	1.53	0.85
SRCPARAM	L0001283	0.00000001595	0.00	1.53	0.85
SRCPARAM	L0001284	0.00000001595	0.00	1.53	0.85
SRCPARAM	L0001285	0.00000001595	0.00	1.53	0.85
SRCPARAM	L0001286	0.00000001595	0.00	1.53	0.85
SRCPARAM	L0001287	0.00000001595	0.00	1.53	0.85
SRCPARAM	L0001288	0.00000001595	0.00	1.53	0.85
SRCPARAM	L0001289	0.00000001595	0.00	1.53	0.85
SRCPARAM	L0001290	0.00000001595	0.00	1.53	0.85
SRCPARAM	L0001291	0.00000001595	0.00	1.53	0.85
SRCPARAM	L0001292	0.00000001595	0.00	1.53	0.85
SRCPARAM	L0001293	0.00000001595	0.00	1.53	0.85
SRCPARAM	L0001294	0.00000001595	0.00	1.53	0.85
SRCPARAM	L0001295	0.00000001595	0.00	1.53	0.85

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** LINE VOLUME Source ID = SLINE7

SRCPARAM	L0001296	0.000000016	0.00	1.53	0.85
SRCPARAM	L0001297	0.000000016	0.00	1.53	0.85
SRCPARAM	L0001298	0.000000016	0.00	1.53	0.85
SRCPARAM	L0001299	0.000000016	0.00	1.53	0.85

BUILDLLEN	STCK4	199.35	209.63	213.75	211.76	203.33	188.72
BUILDLLEN	STCK4	202.46	211.62	214.35	210.68	201.08	185.37
BUILDLLEN	STCK4	164.25	138.47	108.47	134.62	161.13	183.02
BUILDLLEN	STCK4	199.35	209.63	213.75	211.76	203.33	188.72
XBADJ	STCK1	-61.02	-75.09	-86.87	-96.02	-102.25	-105.37
XBADJ	STCK1	-105.29	-102.01	-95.63	-116.76	-136.70	-152.49
XBADJ	STCK1	-163.64	-169.83	-170.85	-166.68	-157.45	-143.43
XBADJ	STCK1	-141.44	-136.53	-127.48	-114.66	-98.83	-80.00
XBADJ	STCK1	-58.97	-36.46	-12.84	-17.86	-24.43	-30.53
XBADJ	STCK1	-35.71	-39.80	-42.90	-45.08	-45.88	-45.29
XBADJ	STCK2	-91.75	-104.25	-113.59	-119.47	-121.72	-120.28
XBADJ	STCK2	-115.18	-106.58	-94.74	-110.44	-125.14	-136.04
XBADJ	STCK2	-142.80	-145.23	-143.25	-136.91	-126.41	-112.07
XBADJ	STCK2	-110.71	-107.37	-100.77	-91.21	-79.36	-65.09
XBADJ	STCK2	-49.08	-31.89	-13.73	-24.18	-35.99	-46.98
XBADJ	STCK2	-56.55	-64.40	-70.51	-74.85	-76.92	-76.65
XBADJ	STCK3	-122.31	-133.53	-140.69	-143.58	-142.10	-136.31
XBADJ	STCK3	-126.38	-112.61	-95.41	-105.73	-115.20	-121.16
XBADJ	STCK3	-123.45	-121.98	-116.81	-108.09	-96.08	-81.16
XBADJ	STCK3	-80.16	-78.09	-73.66	-67.10	-58.97	-49.06
XBADJ	STCK3	-37.88	-25.86	-13.06	-28.89	-45.93	-61.86
XBADJ	STCK3	-75.91	-87.65	-96.94	-103.67	-107.24	-107.56
XBADJ	STCK4	-161.55	-171.01	-175.28	-174.22	-167.86	-156.41
XBADJ	STCK4	-140.20	-119.73	-95.63	-99.03	-101.79	-101.45
XBADJ	STCK4	-98.03	-91.63	-82.45	-70.76	-56.92	-41.35
XBADJ	STCK4	-40.91	-40.61	-39.08	-36.46	-33.22	-28.96
XBADJ	STCK4	-24.05	-18.73	-12.84	-35.59	-59.34	-81.57
XBADJ	STCK4	-101.33	-118.00	-131.31	-141.00	-146.41	-147.37
YBADJ	STCK1	49.45	56.14	60.98	63.97	65.01	63.97
YBADJ	STCK1	60.80	55.78	49.07	40.21	30.72	20.30
YBADJ	STCK1	9.32	-1.71	-12.68	-23.16	-32.78	-41.40
YBADJ	STCK1	-49.45	-56.14	-60.98	-63.97	-65.01	-63.97
YBADJ	STCK1	-60.80	-55.78	-49.07	-40.21	-30.72	-20.30
YBADJ	STCK1	-9.32	1.71	12.68	23.16	32.78	41.40
YBADJ	STCK2	43.13	44.57	44.53	43.13	40.42	36.37
YBADJ	STCK2	31.03	24.75	17.71	9.48	1.56	-6.41
YBADJ	STCK2	-14.13	-21.18	-27.59	-33.05	-37.34	-40.51
YBADJ	STCK2	-43.13	-44.57	-44.53	-43.13	-40.42	-36.37
YBADJ	STCK2	-31.03	-24.75	-17.71	-9.48	-1.56	6.41
YBADJ	STCK2	14.13	21.18	27.59	33.05	37.34	40.51
YBADJ	STCK3	38.42	34.63	29.65	23.77	17.17	9.94
YBADJ	STCK3	2.21	-5.58	-13.20	-21.08	-27.72	-33.51
YBADJ	STCK3	-38.24	-41.56	-43.63	-44.25	-43.37	-41.17
YBADJ	STCK3	-38.42	-34.63	-29.65	-23.77	-17.17	-9.94

YBADJ	STCK3	-2.21	5.58	13.20	21.08	27.72	33.51
YBADJ	STCK3	38.24	41.56	43.63	44.25	43.37	41.17
YBADJ	STCK4	31.72	21.22	9.94	-1.65	-13.19	-24.43
YBADJ	STCK4	-35.12	-44.75	-53.01	-60.32	-65.20	-68.10
YBADJ	STCK4	-68.88	-67.32	-63.72	-58.07	-50.50	-41.39
YBADJ	STCK4	-31.72	-21.22	-9.94	1.65	13.19	24.43
YBADJ	STCK4	35.12	44.75	53.01	60.32	65.20	68.10
YBADJ	STCK4	68.88	67.32	63.72	58.07	50.50	41.39

SRCGROUP ALL

SO FINISHED

**

** AERMOD Receptor Pathway

**

**

RE STARTING

INCLUDED "Shinohara HRA - 2 year.rou"

RE FINISHED

**

** AERMOD Meteorology Pathway

**

**

ME STARTING

SURFFILE C:\Users\cateh\OneDrive\Desktop\HRA\722904.SFC

PROFFILE C:\Users\cateh\OneDrive\Desktop\HRA\722904.PFL

SURFDATA 3178 2009

UAIRDATA 3190 2009

PROFBASE 157.0 METERS

ME FINISHED

**

** AERMOD Output Pathway

**

**

OU STARTING

** Auto-Generated Plotfiles

PLOTFILE PERIOD ALL "SHINOHARA HRA - 2 YEAR.AD\PE00GALL.PLT" 31

SUMMFILE "Shinohara HRA - 2 year.sum"

OU FINISHED

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

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

A Total of 0 Fatal Error Message(s)
A Total of 4 Warning Message(s)
A Total of 0 Informational Message(s)

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

***** WARNING MESSAGES *****

SO W320	1041	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	1042	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	1043	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	1044	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS

*** SETUP Finishes Successfully ***

**Output Options Selected:

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

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

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 157.00 ; 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 = 4.5 MB of RAM.

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

**Detailed Error/Message File: Shinohara HRA - 2 year.err
**File for Summary of Results: Shinohara HRA - 2 year.sum

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
 *** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 2 year ***

08/05/21
 00:37:38
 PAGE 2

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BLDG EXISTS	URBAN SOURCE	CAP/ HOR	EMIS RATE SCALAR VARY BY
STCK1	0	0.83600E-05	497086.2	3606629.3	54.4	3.66	366.00	51.90	0.10	YES	NO	NO	
STCK2	0	0.83600E-05	497085.3	3606660.7	59.4	3.66	366.00	51.90	0.10	YES	NO	NO	
STCK3	0	0.83600E-05	497085.9	3606691.6	62.6	3.66	366.00	551.90	0.10	YES	NO	NO	
STCK4	0	0.83600E-05	497086.2	3606731.4	64.2	3.66	366.00	51.90	0.10	YES	NO	NO	

L0000876	0	0.46570E-07	497113.3	3606685.6	58.0	0.00	1.53	0.85	NO
L0000877	0	0.46570E-07	497113.3	3606688.9	58.3	0.00	1.53	0.85	NO

L0000916	0	0.31580E-07	497162.8	3606560.1	48.3	0.00	1.53	0.85	NO
L0000917	0	0.31580E-07	497166.0	3606560.0	48.1	0.00	1.53	0.85	NO

L0000956	0	0.31890E-07	497250.3	3606515.0	46.8	0.00	1.53	0.85	NO
L0000957	0	0.31890E-07	497250.3	3606511.7	46.6	0.00	1.53	0.85	NO

L0001551	0	0.31830E-07	497248.9	3606383.9	42.0	0.00	1.53	0.85	NO
L0001552	0	0.31830E-07	497245.6	3606383.9	42.0	0.00	1.53	0.85	NO

L0001591	0	0.31830E-07	497117.7	3606385.3	41.3	0.00	1.53	0.85	NO
L0001592	0	0.31830E-07	497114.4	3606385.4	41.4	0.00	1.53	0.85	NO

L0001631	0	0.31830E-07	496986.5	3606386.8	40.7	0.00	1.53	0.85	NO
L0001632	0	0.31830E-07	496983.2	3606386.8	40.6	0.00	1.53	0.85	NO

*** AERMOD - VERSION 21112 ***
*** AERMET - VERSION 14134 ***

*** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
*** Shinohara DPM Concentrations - 2 year ***

08/05/21
00:37:38
PAGE 9

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** 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	EMISSION RATE SCALAR VARY BY
L0001633	0	0.31830E-07	496980.0	3606386.9	40.6	0.00	1.53	0.85	NO	
L0001634	0	0.31830E-07	496976.7	3606386.9	40.6	0.00	1.53	0.85	NO	
L0001635	0	0.31830E-07	496973.4	3606386.9	40.6	0.00	1.53	0.85	NO	
L0001636	0	0.31830E-07	496970.1	3606387.0	40.5	0.00	1.53	0.85	NO	
L0001637	0	0.31830E-07	496966.8	3606387.0	40.5	0.00	1.53	0.85	NO	
L0001638	0	0.31830E-07	496963.6	3606387.0	40.5	0.00	1.53	0.85	NO	
L0001639	0	0.31830E-07	496960.3	3606387.1	40.4	0.00	1.53	0.85	NO	
L0001640	0	0.31830E-07	496957.0	3606387.1	40.4	0.00	1.53	0.85	NO	
L0001641	0	0.31830E-07	496953.7	3606387.1	40.4	0.00	1.53	0.85	NO	
L0001642	0	0.31830E-07	496950.4	3606387.2	40.4	0.00	1.53	0.85	NO	
L0001643	0	0.31830E-07	496947.2	3606387.2	40.4	0.00	1.53	0.85	NO	
L0001644	0	0.31830E-07	496943.9	3606387.3	40.3	0.00	1.53	0.85	NO	
L0001645	0	0.31830E-07	496940.6	3606387.3	40.3	0.00	1.53	0.85	NO	
L0001646	0	0.31830E-07	496937.3	3606387.3	40.3	0.00	1.53	0.85	NO	
L0001647	0	0.31830E-07	496934.0	3606387.4	40.4	0.00	1.53	0.85	NO	
L0001648	0	0.31830E-07	496930.8	3606387.4	40.6	0.00	1.53	0.85	NO	
L0001649	0	0.31830E-07	496927.5	3606387.4	40.7	0.00	1.53	0.85	NO	
L0001650	0	0.31830E-07	496924.2	3606387.5	40.8	0.00	1.53	0.85	NO	
L0001651	0	0.31830E-07	496920.9	3606387.5	41.0	0.00	1.53	0.85	NO	
L0001652	0	0.31830E-07	496917.6	3606387.5	41.1	0.00	1.53	0.85	NO	
L0001653	0	0.31830E-07	496914.4	3606387.6	41.3	0.00	1.53	0.85	NO	
L0001654	0	0.31830E-07	496911.1	3606387.6	41.4	0.00	1.53	0.85	NO	
L0001655	0	0.31830E-07	496907.8	3606387.7	41.5	0.00	1.53	0.85	NO	
L0001656	0	0.31830E-07	496904.5	3606387.7	41.5	0.00	1.53	0.85	NO	
L0001657	0	0.31830E-07	496901.3	3606387.7	41.6	0.00	1.53	0.85	NO	
L0001658	0	0.31830E-07	496898.0	3606387.8	41.6	0.00	1.53	0.85	NO	
L0001659	0	0.31830E-07	496894.7	3606387.8	41.7	0.00	1.53	0.85	NO	
L0001660	0	0.31830E-07	496891.4	3606387.8	41.8	0.00	1.53	0.85	NO	
L0001661	0	0.31830E-07	496888.1	3606387.9	41.8	0.00	1.53	0.85	NO	
L0001662	0	0.31830E-07	496884.9	3606387.9	41.9	0.00	1.53	0.85	NO	
L0001663	0	0.31830E-07	496881.6	3606387.9	41.9	0.00	1.53	0.85	NO	
L0001664	0	0.31830E-07	496878.3	3606388.0	41.9	0.00	1.53	0.85	NO	
L0001665	0	0.31830E-07	496875.0	3606388.0	42.0	0.00	1.53	0.85	NO	
L0001666	0	0.31830E-07	496871.7	3606388.0	42.0	0.00	1.53	0.85	NO	
L0001667	0	0.31830E-07	496868.5	3606388.1	42.1	0.00	1.53	0.85	NO	
L0001668	0	0.31830E-07	496865.2	3606388.1	42.1	0.00	1.53	0.85	NO	
L0001669	0	0.31830E-07	496861.9	3606388.2	42.2	0.00	1.53	0.85	NO	
L0001670	0	0.31830E-07	496858.6	3606388.2	42.2	0.00	1.53	0.85	NO	

L0001671	0	0.31830E-07	496855.3	3606388.2	42.3	0.00	1.53	0.85	NO
L0001672	0	0.31830E-07	496852.1	3606388.3	42.3	0.00	1.53	0.85	NO

L0001711	0	0.31830E-07	496724.1	3606389.7	41.8	0.00	1.53	0.85	NO
L0001712	0	0.31830E-07	496720.9	3606389.7	41.7	0.00	1.53	0.85	NO

L0001196	0	0.15900E-07	496654.9	3606459.7	41.3	0.00	1.53	0.85	NO
L0001197	0	0.15900E-07	496654.6	3606463.0	41.4	0.00	1.53	0.85	NO

L0001236	0	0.15900E-07	496642.8	3606590.4	50.8	0.00	1.53	0.85	NO
L0001237	0	0.15900E-07	496642.5	3606593.6	51.2	0.00	1.53	0.85	NO

L0001276	0	0.15950E-07	496600.2	3606387.7	42.3	0.00	1.53	0.85	NO
L0001277	0	0.15950E-07	496596.9	3606387.6	42.3	0.00	1.53	0.85	NO

L0001316	0	0.16000E-07	496545.3	3606316.1	38.6	0.00	1.53	0.85	NO
L0001317	0	0.16000E-07	496545.7	3606312.8	38.7	0.00	1.53	0.85	NO

L0001356	0	0.16000E-07	496561.3	3606185.9	39.3	0.00	1.53	0.85	NO
L0001357	0	0.16000E-07	496561.7	3606182.6	39.2	0.00	1.53	0.85	NO

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
*** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 2 year ***

08/05/21
00:37:38
PAGE 17

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs															
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ALL	L0000838	,	L0000839	,	L0000840	,	L0000841	,	L0000842	,	L0000843	,	L0000844	,	L0000845	,
	L0000846	,	L0000847	,	L0000848	,	L0000849	,	L0000850	,	L0000851	,	L0000852	,	L0000853	,
	L0000854	,	L0000855	,	L0000856	,	L0000857	,	L0000858	,	L0000859	,	L0000860	,	L0000861	,
	L0000862	,	L0000863	,	L0000864	,	L0000865	,	L0000866	,	L0000867	,	L0000868	,	L0000869	,
	L0000870	,	L0000871	,	L0000872	,	L0000873	,	L0000874	,	L0000875	,	L0000876	,	L0000877	,
	L0000878	,	L0000879	,	L0000880	,	L0000881	,	L0000882	,	L0000883	,	L0000884	,	L0000885	,
	L0000886	,	L0000887	,	L0000888	,	L0000889	,	L0000890	,	L0000891	,	L0000892	,	L0000893	,
	L0000894	,	L0000895	,	L0000896	,	L0000897	,	L0000898	,	L0000899	,	L0000900	,	L0000901	,
	L0000902	,	L0000903	,	L0000904	,	L0000905	,	L0000906	,	L0000907	,	L0000908	,	L0000909	,
	L0000910	,	L0000911	,	L0000912	,	L0000913	,	L0000914	,	L0000915	,	L0000916	,	L0000917	,
	L0000918	,	L0000919	,	L0000920	,	L0000921	,	L0000922	,	L0000923	,	L0000924	,	L0000925	,
	L0000926	,	L0000927	,	L0000928	,	L0000929	,	L0000930	,	L0000931	,	L0000932	,	L0000933	,
	L0000934	,	L0000935	,	L0000936	,	L0000937	,	L0000938	,	L0000939	,	L0000940	,	L0000941	,
	L0000942	,	L0000943	,	L0000944	,	L0000945	,	L0000946	,	L0000947	,	L0000948	,	L0000949	,
	L0000950	,	L0000951	,	L0000952	,	L0000953	,	L0000954	,	L0000955	,	L0000956	,	L0000957	,
	L0000958	,	L0000959	,	L0000960	,	L0000961	,	L0000962	,	L0000963	,	L0000964	,	L0000965	,
	L0000966	,	L0000967	,	L0000968	,	L0000969	,	L0000970	,	L0000971	,	L0000972	,	L0000973	,
	L0000974	,	L0000975	,	L0000976	,	L0000977	,	L0000978	,	L0000979	,	L0000980	,	L0000981	,
	L0000982	,	L0000983	,	L0000984	,	L0000985	,	L0000986	,	L0000987	,	L0000988	,	L0000989	,
	L0000990	,	L0000991	,	L0000992	,	L0000993	,	L0000994	,	L0000995	,	L0001551	,	L0001552	,

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
*** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 2 year ***

08/05/21
00:37:38
PAGE 18

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs														
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L0001553	,	L0001554	,	L0001555	,	L0001556	,	L0001557	,	L0001558	,	L0001559	,	L0001560	,
L0001561	,	L0001562	,	L0001563	,	L0001564	,	L0001565	,	L0001566	,	L0001567	,	L0001568	,
L0001569	,	L0001570	,	L0001571	,	L0001572	,	L0001573	,	L0001574	,	L0001575	,	L0001576	,
L0001577	,	L0001578	,	L0001579	,	L0001580	,	L0001581	,	L0001582	,	L0001583	,	L0001584	,
L0001585	,	L0001586	,	L0001587	,	L0001588	,	L0001589	,	L0001590	,	L0001591	,	L0001592	,
L0001593	,	L0001594	,	L0001595	,	L0001596	,	L0001597	,	L0001598	,	L0001599	,	L0001600	,
L0001601	,	L0001602	,	L0001603	,	L0001604	,	L0001605	,	L0001606	,	L0001607	,	L0001608	,
L0001609	,	L0001610	,	L0001611	,	L0001612	,	L0001613	,	L0001614	,	L0001615	,	L0001616	,
L0001617	,	L0001618	,	L0001619	,	L0001620	,	L0001621	,	L0001622	,	L0001623	,	L0001624	,
L0001625	,	L0001626	,	L0001627	,	L0001628	,	L0001629	,	L0001630	,	L0001631	,	L0001632	,
L0001633	,	L0001634	,	L0001635	,	L0001636	,	L0001637	,	L0001638	,	L0001639	,	L0001640	,
L0001641	,	L0001642	,	L0001643	,	L0001644	,	L0001645	,	L0001646	,	L0001647	,	L0001648	,
L0001649	,	L0001650	,	L0001651	,	L0001652	,	L0001653	,	L0001654	,	L0001655	,	L0001656	,
L0001657	,	L0001658	,	L0001659	,	L0001660	,	L0001661	,	L0001662	,	L0001663	,	L0001664	,
L0001665	,	L0001666	,	L0001667	,	L0001668	,	L0001669	,	L0001670	,	L0001671	,	L0001672	,
L0001673	,	L0001674	,	L0001675	,	L0001676	,	L0001677	,	L0001678	,	L0001679	,	L0001680	,
L0001681	,	L0001682	,	L0001683	,	L0001684	,	L0001685	,	L0001686	,	L0001687	,	L0001688	,
L0001689	,	L0001690	,	L0001691	,	L0001692	,	L0001693	,	L0001694	,	L0001695	,	L0001696	,
L0001697	,	L0001698	,	L0001699	,	L0001700	,	L0001701	,	L0001702	,	L0001703	,	L0001704	,
L0001705	,	L0001706	,	L0001707	,	L0001708	,	L0001709	,	L0001710	,	L0001711	,	L0001712	,

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
*** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 2 year ***

08/05/21
00:37:38
PAGE 19

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs														
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L0001713	,	L0001714	,	L0001715	,	L0001716	,	L0001717	,	L0001718	,	L0001719	,	L0001720	,
L0001721	,	L0001722	,	L0001723	,	L0001724	,	L0001725	,	L0001726	,	L0001727	,	L0001728	,
L0001729	,	L0001730	,	STCK1	,	STCK2	,	STCK3	,	STCK4	,	L0001176	,	L0001177	,
L0001178	,	L0001179	,	L0001180	,	L0001181	,	L0001182	,	L0001183	,	L0001184	,	L0001185	,
L0001186	,	L0001187	,	L0001188	,	L0001189	,	L0001190	,	L0001191	,	L0001192	,	L0001193	,
L0001194	,	L0001195	,	L0001196	,	L0001197	,	L0001198	,	L0001199	,	L0001200	,	L0001201	,
L0001202	,	L0001203	,	L0001204	,	L0001205	,	L0001206	,	L0001207	,	L0001208	,	L0001209	,
L0001210	,	L0001211	,	L0001212	,	L0001213	,	L0001214	,	L0001215	,	L0001216	,	L0001217	,
L0001218	,	L0001219	,	L0001220	,	L0001221	,	L0001222	,	L0001223	,	L0001224	,	L0001225	,
L0001226	,	L0001227	,	L0001228	,	L0001229	,	L0001230	,	L0001231	,	L0001232	,	L0001233	,
L0001234	,	L0001235	,	L0001236	,	L0001237	,	L0001238	,	L0001239	,	L0001240	,	L0001241	,
L0001242	,	L0001243	,	L0001244	,	L0001245	,	L0001246	,	L0001247	,	L0001248	,	L0001249	,
L0001250	,	L0001251	,	L0001252	,	L0001253	,	L0001254	,	L0001255	,	L0001256	,	L0001257	,
L0001258	,	L0001259	,	L0001260	,	L0001261	,	L0001262	,	L0001263	,	L0001264	,	L0001265	,
L0001266	,	L0001267	,	L0001268	,	L0001269	,	L0001270	,	L0001271	,	L0001272	,	L0001273	,
L0001274	,	L0001275	,	L0001276	,	L0001277	,	L0001278	,	L0001279	,	L0001280	,	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	,

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
*** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 2 year ***

08/05/21
00:37:38
PAGE 21

*** MODELOPTs: RegDFault CONC ELEV RURAL

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK1

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	12.2,	134.6,	202.5,	-61.0,	49.4,	2	12.2,	161.1,	211.6,	-75.1,	56.1,
3	12.2,	183.0,	214.4,	-86.9,	61.0,	4	12.2,	199.4,	210.7,	-96.0,	64.0,
5	12.2,	209.6,	201.1,	-102.2,	65.0,	6	12.2,	213.8,	185.4,	-105.4,	64.0,
7	12.2,	211.8,	164.2,	-105.3,	60.8,	8	12.2,	203.3,	138.5,	-102.0,	55.8,
9	12.2,	188.7,	108.5,	-95.6,	49.1,	10	12.2,	202.5,	134.6,	-116.8,	40.2,
11	12.2,	211.6,	161.1,	-136.7,	30.7,	12	12.2,	214.4,	183.0,	-152.5,	20.3,
13	12.2,	210.7,	199.4,	-163.6,	9.3,	14	12.2,	201.1,	209.6,	-169.8,	-1.7,
15	12.2,	185.4,	213.8,	-170.9,	-12.7,	16	12.2,	164.2,	211.8,	-166.7,	-23.2,
17	12.2,	138.5,	203.3,	-157.5,	-32.8,	18	12.2,	108.5,	188.7,	-143.4,	-41.4,
19	12.2,	134.6,	202.5,	-141.4,	-49.4,	20	12.2,	161.1,	211.6,	-136.5,	-56.1,
21	12.2,	183.0,	214.4,	-127.5,	-61.0,	22	12.2,	199.4,	210.7,	-114.7,	-64.0,
23	12.2,	209.6,	201.1,	-98.8,	-65.0,	24	12.2,	213.8,	185.4,	-80.0,	-64.0,
25	12.2,	211.8,	164.2,	-59.0,	-60.8,	26	12.2,	203.3,	138.5,	-36.5,	-55.8,
27	12.2,	188.7,	108.5,	-12.8,	-49.1,	28	12.2,	202.5,	134.6,	-17.9,	-40.2,
29	12.2,	211.6,	161.1,	-24.4,	-30.7,	30	12.2,	214.4,	183.0,	-30.5,	-20.3,
31	12.2,	210.7,	199.4,	-35.7,	-9.3,	32	12.2,	201.1,	209.6,	-39.8,	1.7,
33	12.2,	185.4,	213.8,	-42.9,	12.7,	34	12.2,	164.2,	211.8,	-45.1,	23.2,
35	12.2,	138.5,	203.3,	-45.9,	32.8,	36	12.2,	108.5,	188.7,	-45.3,	41.4,

SOURCE ID: STCK2

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	12.2,	134.6,	202.5,	-91.8,	43.1,	2	12.2,	161.1,	211.6,	-104.2,	44.6,
3	12.2,	183.0,	214.4,	-113.6,	44.5,	4	12.2,	199.4,	210.7,	-119.5,	43.1,
5	12.2,	209.6,	201.1,	-121.7,	40.4,	6	12.2,	213.8,	185.4,	-120.3,	36.4,
7	12.2,	211.8,	164.2,	-115.2,	31.0,	8	12.2,	203.3,	138.5,	-106.6,	24.8,
9	12.2,	188.7,	108.5,	-94.7,	17.7,	10	12.2,	202.5,	134.6,	-110.4,	9.5,
11	12.2,	211.6,	161.1,	-125.1,	1.6,	12	12.2,	214.4,	183.0,	-136.0,	-6.4,
13	12.2,	210.7,	199.4,	-142.8,	-14.1,	14	12.2,	201.1,	209.6,	-145.2,	-21.2,
15	12.2,	185.4,	213.8,	-143.2,	-27.6,	16	12.2,	164.2,	211.8,	-136.9,	-33.0,
17	12.2,	138.5,	203.3,	-126.4,	-37.3,	18	12.2,	108.5,	188.7,	-112.1,	-40.5,
19	12.2,	134.6,	202.5,	-110.7,	-43.1,	20	12.2,	161.1,	211.6,	-107.4,	-44.6,
21	12.2,	183.0,	214.4,	-100.8,	-44.5,	22	12.2,	199.4,	210.7,	-91.2,	-43.1,
23	12.2,	209.6,	201.1,	-79.4,	-40.4,	24	12.2,	213.8,	185.4,	-65.1,	-36.4,
25	12.2,	211.8,	164.2,	-49.1,	-31.0,	26	12.2,	203.3,	138.5,	-31.9,	-24.8,
27	12.2,	188.7,	108.5,	-13.7,	-17.7,	28	12.2,	202.5,	134.6,	-24.2,	-9.5,
29	12.2,	211.6,	161.1,	-36.0,	-1.6,	30	12.2,	214.4,	183.0,	-47.0,	6.4,
31	12.2,	210.7,	199.4,	-56.5,	14.1,	32	12.2,	201.1,	209.6,	-64.4,	21.2,
33	12.2,	185.4,	213.8,	-70.5,	27.6,	34	12.2,	164.2,	211.8,	-74.8,	33.0,
35	12.2,	138.5,	203.3,	-76.9,	37.3,	36	12.2,	108.5,	188.7,	-76.6,	40.5,

SOURCE ID: STCK3

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	12.2,	134.6,	202.5,	-122.3,	38.4,	2	12.2,	161.1,	211.6,	-133.5,	34.6,
3	12.2,	183.0,	214.4,	-140.7,	29.7,	4	12.2,	199.4,	210.7,	-143.6,	23.8,
5	12.2,	209.6,	201.1,	-142.1,	17.2,	6	12.2,	213.8,	185.4,	-136.3,	9.9,
7	12.2,	211.8,	164.2,	-126.4,	2.2,	8	12.2,	203.3,	138.5,	-112.6,	-5.6,
9	12.2,	188.7,	108.5,	-95.4,	-13.2,	10	12.2,	202.5,	134.6,	-105.7,	-21.1,
11	12.2,	211.6,	161.1,	-115.2,	-27.7,	12	12.2,	214.4,	183.0,	-121.2,	-33.5,
13	12.2,	210.7,	199.4,	-123.5,	-38.2,	14	12.2,	201.1,	209.6,	-122.0,	-41.6,
15	12.2,	185.4,	213.8,	-116.8,	-43.6,	16	12.2,	164.2,	211.8,	-108.1,	-44.2,
17	12.2,	138.5,	203.3,	-96.1,	-43.4,	18	12.2,	108.5,	188.7,	-81.2,	-41.2,
19	12.2,	134.6,	202.5,	-80.2,	-38.4,	20	12.2,	161.1,	211.6,	-78.1,	-34.6,
21	12.2,	183.0,	214.4,	-73.7,	-29.7,	22	12.2,	199.4,	210.7,	-67.1,	-23.8,
23	12.2,	209.6,	201.1,	-59.0,	-17.2,	24	12.2,	213.8,	185.4,	-49.1,	-9.9,
25	12.2,	211.8,	164.2,	-37.9,	-2.2,	26	12.2,	203.3,	138.5,	-25.9,	5.6,
27	12.2,	188.7,	108.5,	-13.1,	13.2,	28	12.2,	202.5,	134.6,	-28.9,	21.1,
29	12.2,	211.6,	161.1,	-45.9,	27.7,	30	12.2,	214.4,	183.0,	-61.9,	33.5,
31	12.2,	210.7,	199.4,	-75.9,	38.2,	32	12.2,	201.1,	209.6,	-87.6,	41.6,
33	12.2,	185.4,	213.8,	-96.9,	43.6,	34	12.2,	164.2,	211.8,	-103.7,	44.2,
35	12.2,	138.5,	203.3,	-107.2,	43.4,	36	12.2,	108.5,	188.7,	-107.6,	41.2,

SOURCE ID: STCK4

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	12.2,	134.6,	202.5,	-161.6,	31.7,	2	12.2,	161.1,	211.6,	-171.0,	21.2,
3	12.2,	183.0,	214.4,	-175.3,	9.9,	4	12.2,	199.4,	210.7,	-174.2,	-1.7,
5	12.2,	209.6,	201.1,	-167.9,	-13.2,	6	12.2,	213.8,	185.4,	-156.4,	-24.4,
7	12.2,	211.8,	164.2,	-140.2,	-35.1,	8	12.2,	203.3,	138.5,	-119.7,	-44.8,
9	12.2,	188.7,	108.5,	-95.6,	-53.0,	10	12.2,	202.5,	134.6,	-99.0,	-60.3,
11	12.2,	211.6,	161.1,	-101.8,	-65.2,	12	12.2,	214.4,	183.0,	-101.5,	-68.1,
13	12.2,	210.7,	199.4,	-98.0,	-68.9,	14	12.2,	201.1,	209.6,	-91.6,	-67.3,
15	12.2,	185.4,	213.8,	-82.5,	-63.7,	16	12.2,	164.2,	211.8,	-70.8,	-58.1,
17	12.2,	138.5,	203.3,	-56.9,	-50.5,	18	12.2,	108.5,	188.7,	-41.3,	-41.4,
19	12.2,	134.6,	202.5,	-40.9,	-31.7,	20	12.2,	161.1,	211.6,	-40.6,	-21.2,
21	12.2,	183.0,	214.4,	-39.1,	-9.9,	22	12.2,	199.4,	210.7,	-36.5,	1.7,
23	12.2,	209.6,	201.1,	-33.2,	13.2,	24	12.2,	213.8,	185.4,	-29.0,	24.4,
25	12.2,	211.8,	164.2,	-24.1,	35.1,	26	12.2,	203.3,	138.5,	-18.7,	44.8,
27	12.2,	188.7,	108.5,	-12.8,	53.0,	28	12.2,	202.5,	134.6,	-35.6,	60.3,
29	12.2,	211.6,	161.1,	-59.3,	65.2,	30	12.2,	214.4,	183.0,	-81.6,	68.1,
31	12.2,	210.7,	199.4,	-101.3,	68.9,	32	12.2,	201.1,	209.6,	-118.0,	67.3,
33	12.2,	185.4,	213.8,	-131.3,	63.7,	34	12.2,	164.2,	211.8,	-141.0,	58.1,
35	12.2,	138.5,	203.3,	-146.4,	50.5,	36	12.2,	108.5,	188.7,	-147.4,	41.4,

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
*** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 2 year ***

08/05/21
00:37:38
PAGE 25

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	497510.15	497569.75	497629.35
3607254.64	102.70	107.40	104.40
3607195.51	92.20	95.00	98.50
3607136.38	95.90	97.40	100.30
3607077.25	100.10	101.10	103.90
3607018.12	98.70	102.50	103.70
3606958.99	90.30	101.40	103.10
3606899.86	79.10	92.10	93.50
3606840.73	90.10	90.90	90.20
3606781.60	74.50	72.40	71.20
3606722.47	66.70	62.80	62.50
3606663.34	65.40	56.40	57.40
3606604.21	51.20	53.90	58.40
3606545.08	44.40	45.00	46.00
3606485.95	43.10	43.10	43.30
3606426.82	42.50	42.40	42.90
3606367.69	40.60	40.90	41.30
3606308.56	39.70	39.90	40.60
3606249.43	40.20	40.00	39.90
3606190.30	29.90	29.60	29.80
3606131.17	29.10	30.90	30.60
3606072.04	29.10	30.50	30.00

*** AERMOD - VERSION 21112 *** ** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
*** AERMET - VERSION 14134 *** ** Shinohara DPM Concentrations - 2 year **

08/05/21
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PAGE 38

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

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

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

A Total of 0 Fatal Error Message(s)
A Total of 6 Warning Message(s)
A Total of 16961 Informational Message(s)

A Total of 43872 Hours Were Processed

A Total of 13845 Calm Hours Identified

A Total of 3116 Missing Hours Identified (7.10 Percent)

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

***** WARNING MESSAGES *****
SO W320 1041 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 1042 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 1043 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 1044 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
MX W430 33748 METQA: Ambient Temperature Data Out-of-Range. KURDAT = 12110704
MX W430 33749 METQA: Ambient Temperature Data Out-of-Range. KURDAT = 12110705

*** AERMOD Finishes Successfully ***

```

**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 10.0.1
** Lakes Environmental Software Inc.
** Date: 8/4/2021
** File: C:\Lakes\AERMOD View\Shinohara HRA - 1st 14 yrs\Shinohara HRA - 1st 14 yrs.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i
  TITLETWO Shinohara DPM Concentrations - 1st 14 years
  MODELOPT DFAULT CONC
  AVERTIME PERIOD
  POLLUTID DPM
  RUNORNOT RUN
  ERRORFIL "Shinohara HRA - 1st 14 yrs.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 On-Site - Project Driveway to Loading Area
** PREFIX
** Length of Side = 3.28
** Configuration = Adjacent
** Emission Rate = 2.4E-06
** Elevated
** Vertical Dimension = 3.66
** SZINIT = 0.85
** Nodes = 5
** 497125.107, 3606563.656, 46.25, 0.00, 1.53
** 497116.635, 3606572.599, 46.24, 0.00, 1.53
** 497111.457, 3606587.191, 48.45, 0.00, 1.53
** 497113.340, 3606656.851, 53.51, 0.00, 1.53

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** 497113.261, 3606777.752, 72.42, 0.00, 1.53

** -----

LOCATION	L0001371	VOLUME	497123.979	3606564.847	46.90
LOCATION	L0001372	VOLUME	497121.724	3606567.228	46.81
LOCATION	L0001373	VOLUME	497119.468	3606569.609	46.72
LOCATION	L0001374	VOLUME	497117.212	3606571.990	46.93
LOCATION	L0001375	VOLUME	497115.819	3606574.900	47.17
LOCATION	L0001376	VOLUME	497114.722	3606577.991	47.42
LOCATION	L0001377	VOLUME	497113.625	3606581.082	47.66
LOCATION	L0001378	VOLUME	497112.528	3606584.173	47.91
LOCATION	L0001379	VOLUME	497111.460	3606587.269	48.15
LOCATION	L0001380	VOLUME	497111.548	3606590.548	48.39
LOCATION	L0001381	VOLUME	497111.637	3606593.827	48.67
LOCATION	L0001382	VOLUME	497111.725	3606597.105	48.95
LOCATION	L0001383	VOLUME	497111.814	3606600.384	49.24
LOCATION	L0001384	VOLUME	497111.903	3606603.663	49.52
LOCATION	L0001385	VOLUME	497111.991	3606606.942	49.80
LOCATION	L0001386	VOLUME	497112.080	3606610.221	50.08
LOCATION	L0001387	VOLUME	497112.169	3606613.499	50.36
LOCATION	L0001388	VOLUME	497112.257	3606616.778	50.64
LOCATION	L0001389	VOLUME	497112.346	3606620.057	50.91
LOCATION	L0001390	VOLUME	497112.434	3606623.336	51.21
LOCATION	L0001391	VOLUME	497112.523	3606626.615	51.52
LOCATION	L0001392	VOLUME	497112.612	3606629.894	51.83
LOCATION	L0001393	VOLUME	497112.700	3606633.172	52.14
LOCATION	L0001394	VOLUME	497112.789	3606636.451	52.44
LOCATION	L0001395	VOLUME	497112.877	3606639.730	52.74
LOCATION	L0001396	VOLUME	497112.966	3606643.009	53.04
LOCATION	L0001397	VOLUME	497113.055	3606646.288	53.34
LOCATION	L0001398	VOLUME	497113.143	3606649.566	53.64
LOCATION	L0001399	VOLUME	497113.232	3606652.845	53.95
LOCATION	L0001400	VOLUME	497113.321	3606656.124	54.34
LOCATION	L0001401	VOLUME	497113.339	3606659.404	54.74
LOCATION	L0001402	VOLUME	497113.336	3606662.684	55.15
LOCATION	L0001403	VOLUME	497113.334	3606665.964	55.55
LOCATION	L0001404	VOLUME	497113.332	3606669.244	55.96
LOCATION	L0001405	VOLUME	497113.330	3606672.524	56.36
LOCATION	L0001406	VOLUME	497113.328	3606675.804	56.77
LOCATION	L0001407	VOLUME	497113.326	3606679.084	57.17
LOCATION	L0001408	VOLUME	497113.324	3606682.364	57.58
LOCATION	L0001409	VOLUME	497113.321	3606685.644	57.97
LOCATION	L0001410	VOLUME	497113.319	3606688.924	58.35
LOCATION	L0001411	VOLUME	497113.317	3606692.204	58.74
LOCATION	L0001412	VOLUME	497113.315	3606695.484	59.13
LOCATION	L0001413	VOLUME	497113.313	3606698.764	59.51
LOCATION	L0001414	VOLUME	497113.311	3606702.044	59.90
LOCATION	L0001415	VOLUME	497113.309	3606705.324	60.28
LOCATION	L0001416	VOLUME	497113.306	3606708.604	60.67
LOCATION	L0001417	VOLUME	497113.304	3606711.884	61.06
LOCATION	L0001418	VOLUME	497113.302	3606715.164	61.46
LOCATION	L0001419	VOLUME	497113.300	3606718.444	61.88

LOCATION	VOLUME	497113.298	3606721.724	62.30
LOCATION L0001420	VOLUME	497113.298	3606721.724	62.30
LOCATION L0001421	VOLUME	497113.296	3606725.004	62.72
LOCATION L0001422	VOLUME	497113.294	3606728.284	63.14
LOCATION L0001423	VOLUME	497113.291	3606731.564	63.56
LOCATION L0001424	VOLUME	497113.289	3606734.844	63.98
LOCATION L0001425	VOLUME	497113.287	3606738.124	64.40
LOCATION L0001426	VOLUME	497113.285	3606741.404	64.82
LOCATION L0001427	VOLUME	497113.283	3606744.684	65.25
LOCATION L0001428	VOLUME	497113.281	3606747.964	66.04
LOCATION L0001429	VOLUME	497113.279	3606751.244	66.83
LOCATION L0001430	VOLUME	497113.276	3606754.524	67.63
LOCATION L0001431	VOLUME	497113.274	3606757.804	68.42
LOCATION L0001432	VOLUME	497113.272	3606761.084	69.21
LOCATION L0001433	VOLUME	497113.270	3606764.364	70.01
LOCATION L0001434	VOLUME	497113.268	3606767.644	70.80
LOCATION L0001435	VOLUME	497113.266	3606770.924	71.59
LOCATION L0001436	VOLUME	497113.264	3606774.204	72.39
LOCATION L0001437	VOLUME	497113.261	3606777.484	72.87

** End of LINE VOLUME Source ID = SLINE1

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = SLINE2

** DESCRSRC Shinohara Lane from Project Driveway to Brandywine Ave

** PREFIX

** Length of Side = 3.28

** Configuration = Adjacent

** Emission Rate = 1.04E-06

** Elevated

** Vertical Dimension = 3.66

** SZINIT = 0.85

** Nodes = 3

** 497126.126, 3606562.573, 46.29, 0.00, 1.53

** 497128.006, 3606560.276, 46.47, 0.00, 1.53

** 497249.204, 3606559.551, 48.32, 0.00, 1.53

** -----

LOCATION	VOLUME	497127.165	3606561.304	46.94
LOCATION L0001438	VOLUME	497127.165	3606561.304	46.94
LOCATION L0001439	VOLUME	497129.958	3606560.264	47.13
LOCATION L0001440	VOLUME	497133.238	3606560.244	47.48
LOCATION L0001441	VOLUME	497136.517	3606560.225	47.83
LOCATION L0001442	VOLUME	497139.797	3606560.205	48.18
LOCATION L0001443	VOLUME	497143.077	3606560.186	48.53
LOCATION L0001444	VOLUME	497146.357	3606560.166	48.79
LOCATION L0001445	VOLUME	497149.637	3606560.146	48.69
LOCATION L0001446	VOLUME	497152.917	3606560.127	48.58
LOCATION L0001447	VOLUME	497156.197	3606560.107	48.47
LOCATION L0001448	VOLUME	497159.477	3606560.087	48.36
LOCATION L0001449	VOLUME	497162.757	3606560.068	48.26
LOCATION L0001450	VOLUME	497166.037	3606560.048	48.15
LOCATION L0001451	VOLUME	497169.317	3606560.029	48.04
LOCATION L0001452	VOLUME	497172.597	3606560.009	47.97
LOCATION L0001453	VOLUME	497175.877	3606559.989	48.02

LOCATION	VOLUME				
L0001454	497179.157	3606559.970	48.07		
L0001455	497182.437	3606559.950	48.11		
L0001456	497185.717	3606559.931	48.16		
L0001457	497188.997	3606559.911	48.21		
L0001458	497192.276	3606559.891	48.25		
L0001459	497195.556	3606559.872	48.30		
L0001460	497198.836	3606559.852	48.34		
L0001461	497202.116	3606559.832	48.36		
L0001462	497205.396	3606559.813	48.37		
L0001463	497208.676	3606559.793	48.39		
L0001464	497211.956	3606559.774	48.41		
L0001465	497215.236	3606559.754	48.43		
L0001466	497218.516	3606559.734	48.45		
L0001467	497221.796	3606559.715	48.47		
L0001468	497225.076	3606559.695	48.48		
L0001469	497228.356	3606559.676	48.46		
L0001470	497231.636	3606559.656	48.43		
L0001471	497234.916	3606559.636	48.41		
L0001472	497238.196	3606559.617	48.39		
L0001473	497241.476	3606559.597	48.37		
L0001474	497244.756	3606559.577	48.35		
L0001475	497248.035	3606559.558	48.32		

** End of LINE VOLUME Source ID = SLINE2

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = SLINE3

** DESCRSRC Brandywine Ave from Shinohara Lane to Main Street

** PREFIX

** Length of Side = 3.28

** Configuration = Adjacent

** Emission Rate = 1.46E-06

** Elevated

** Vertical Dimension = 3.66

** SZINIT = 0.85

** Nodes = 2

** 497249.977, 3606559.231, 48.32, 0.00, 1.53

** 497251.206, 3606385.124, 42.07, 0.00, 1.53

** -----

LOCATION	VOLUME				
L0001476	497249.989	3606557.591	48.25		
L0001477	497250.012	3606554.311	48.14		
L0001478	497250.035	3606551.032	48.03		
L0001479	497250.058	3606547.752	47.92		
L0001480	497250.082	3606544.472	47.81		
L0001481	497250.105	3606541.192	47.70		
L0001482	497250.128	3606537.912	47.59		
L0001483	497250.151	3606534.632	47.48		
L0001484	497250.174	3606531.352	47.37		
L0001485	497250.197	3606528.072	47.26		
L0001486	497250.220	3606524.792	47.14		
L0001487	497250.244	3606521.512	47.01		
L0001488	497250.267	3606518.232	46.89		

LOCATION	VOLUME	497250.290	3606514.952	46.77
LOCATION L0001489	VOLUME	497250.290	3606514.952	46.77
LOCATION L0001490	VOLUME	497250.313	3606511.673	46.64
LOCATION L0001491	VOLUME	497250.336	3606508.393	46.52
LOCATION L0001492	VOLUME	497250.359	3606505.113	46.39
LOCATION L0001493	VOLUME	497250.382	3606501.833	46.27
LOCATION L0001494	VOLUME	497250.406	3606498.553	46.14
LOCATION L0001495	VOLUME	497250.429	3606495.273	45.99
LOCATION L0001496	VOLUME	497250.452	3606491.993	45.84
LOCATION L0001497	VOLUME	497250.475	3606488.713	45.69
LOCATION L0001498	VOLUME	497250.498	3606485.433	45.53
LOCATION L0001499	VOLUME	497250.521	3606482.153	45.38
LOCATION L0001500	VOLUME	497250.544	3606478.873	45.22
LOCATION L0001501	VOLUME	497250.567	3606475.593	45.07
LOCATION L0001502	VOLUME	497250.591	3606472.314	44.92
LOCATION L0001503	VOLUME	497250.614	3606469.034	44.76
LOCATION L0001504	VOLUME	497250.637	3606465.754	44.60
LOCATION L0001505	VOLUME	497250.660	3606462.474	44.42
LOCATION L0001506	VOLUME	497250.683	3606459.194	44.24
LOCATION L0001507	VOLUME	497250.706	3606455.914	44.07
LOCATION L0001508	VOLUME	497250.729	3606452.634	43.90
LOCATION L0001509	VOLUME	497250.753	3606449.354	43.72
LOCATION L0001510	VOLUME	497250.776	3606446.074	43.55
LOCATION L0001511	VOLUME	497250.799	3606442.794	43.38
LOCATION L0001512	VOLUME	497250.822	3606439.514	43.20
LOCATION L0001513	VOLUME	497250.845	3606436.234	43.03
LOCATION L0001514	VOLUME	497250.868	3606432.955	42.90
LOCATION L0001515	VOLUME	497250.891	3606429.675	42.76
LOCATION L0001516	VOLUME	497250.915	3606426.395	42.62
LOCATION L0001517	VOLUME	497250.938	3606423.115	42.48
LOCATION L0001518	VOLUME	497250.961	3606419.835	42.35
LOCATION L0001519	VOLUME	497250.984	3606416.555	42.21
LOCATION L0001520	VOLUME	497251.007	3606413.275	42.07
LOCATION L0001521	VOLUME	497251.030	3606409.995	41.94
LOCATION L0001522	VOLUME	497251.053	3606406.715	41.80
LOCATION L0001523	VOLUME	497251.077	3606403.435	41.79
LOCATION L0001524	VOLUME	497251.100	3606400.155	41.83
LOCATION L0001525	VOLUME	497251.123	3606396.875	41.86
LOCATION L0001526	VOLUME	497251.146	3606393.595	41.89
LOCATION L0001527	VOLUME	497251.169	3606390.316	41.93
LOCATION L0001528	VOLUME	497251.192	3606387.036	41.96

** End of LINE VOLUME Source ID = SLINE3

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = SLINE4

** DESCRSRC Main Street from Brandywine Ave to 805 freeway

** PREFIX

** Length of Side = 3.28

** Configuration = Adjacent

** Emission Rate = 4.97E-06

** Elevated

** Vertical Dimension = 3.66

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** SZINIT = 0.85
** Nodes = 2
** 497250.550, 3606383.877, 42.07, 0.00, 1.53
** 496658.774, 3606390.392, 39.20, 0.00, 1.53
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LOCATION L0001529    VOLUME  497248.910 3606383.895 41.98
LOCATION L0001530    VOLUME  497245.630 3606383.931 42.02
LOCATION L0001531    VOLUME  497242.350 3606383.967 42.06
LOCATION L0001532    VOLUME  497239.071 3606384.003 42.10
LOCATION L0001533    VOLUME  497235.791 3606384.040 42.14
LOCATION L0001534    VOLUME  497232.511 3606384.076 42.18
LOCATION L0001535    VOLUME  497229.231 3606384.112 42.22
LOCATION L0001536    VOLUME  497225.951 3606384.148 42.26
LOCATION L0001537    VOLUME  497222.672 3606384.184 42.29
LOCATION L0001538    VOLUME  497219.392 3606384.220 42.28
LOCATION L0001539    VOLUME  497216.112 3606384.256 42.27
LOCATION L0001540    VOLUME  497212.832 3606384.292 42.26
LOCATION L0001541    VOLUME  497209.552 3606384.328 42.25
LOCATION L0001542    VOLUME  497206.273 3606384.365 42.25
LOCATION L0001543    VOLUME  497202.993 3606384.401 42.24
LOCATION L0001544    VOLUME  497199.713 3606384.437 42.23
LOCATION L0001545    VOLUME  497196.433 3606384.473 42.22
LOCATION L0001546    VOLUME  497193.153 3606384.509 42.21
LOCATION L0001547    VOLUME  497189.874 3606384.545 42.21
LOCATION L0001548    VOLUME  497186.594 3606384.581 42.20
LOCATION L0001549    VOLUME  497183.314 3606384.617 42.19
LOCATION L0001550    VOLUME  497180.034 3606384.653 42.19
LOCATION L0001551    VOLUME  497176.754 3606384.690 42.18
LOCATION L0001552    VOLUME  497173.475 3606384.726 42.17
LOCATION L0001553    VOLUME  497170.195 3606384.762 42.18
LOCATION L0001554    VOLUME  497166.915 3606384.798 42.18
LOCATION L0001555    VOLUME  497163.635 3606384.834 42.19
LOCATION L0001556    VOLUME  497160.355 3606384.870 42.20
LOCATION L0001557    VOLUME  497157.076 3606384.906 42.21
LOCATION L0001558    VOLUME  497153.796 3606384.942 42.22
LOCATION L0001559    VOLUME  497150.516 3606384.978 42.23
LOCATION L0001560    VOLUME  497147.236 3606385.015 42.24
LOCATION L0001561    VOLUME  497143.956 3606385.051 42.19
LOCATION L0001562    VOLUME  497140.677 3606385.087 42.08
LOCATION L0001563    VOLUME  497137.397 3606385.123 41.96
LOCATION L0001564    VOLUME  497134.117 3606385.159 41.85
LOCATION L0001565    VOLUME  497130.837 3606385.195 41.73
LOCATION L0001566    VOLUME  497127.557 3606385.231 41.62
LOCATION L0001567    VOLUME  497124.278 3606385.267 41.50
LOCATION L0001568    VOLUME  497120.998 3606385.303 41.38
LOCATION L0001569    VOLUME  497117.718 3606385.340 41.35
LOCATION L0001570    VOLUME  497114.438 3606385.376 41.36
LOCATION L0001571    VOLUME  497111.158 3606385.412 41.38
LOCATION L0001572    VOLUME  497107.879 3606385.448 41.40
LOCATION L0001573    VOLUME  497104.599 3606385.484 41.42
LOCATION L0001574    VOLUME  497101.319 3606385.520 41.44
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LOCATION	L0001575	VOLUME	497098.039	3606385.556	41.46
LOCATION	L0001576	VOLUME	497094.759	3606385.592	41.48
LOCATION	L0001577	VOLUME	497091.480	3606385.628	41.39
LOCATION	L0001578	VOLUME	497088.200	3606385.665	41.24
LOCATION	L0001579	VOLUME	497084.920	3606385.701	41.09
LOCATION	L0001580	VOLUME	497081.640	3606385.737	40.94
LOCATION	L0001581	VOLUME	497078.360	3606385.773	40.79
LOCATION	L0001582	VOLUME	497075.080	3606385.809	40.64
LOCATION	L0001583	VOLUME	497071.801	3606385.845	40.49
LOCATION	L0001584	VOLUME	497068.521	3606385.881	40.33
LOCATION	L0001585	VOLUME	497065.241	3606385.917	40.33
LOCATION	L0001586	VOLUME	497061.961	3606385.953	40.40
LOCATION	L0001587	VOLUME	497058.681	3606385.990	40.46
LOCATION	L0001588	VOLUME	497055.402	3606386.026	40.53
LOCATION	L0001589	VOLUME	497052.122	3606386.062	40.60
LOCATION	L0001590	VOLUME	497048.842	3606386.098	40.67
LOCATION	L0001591	VOLUME	497045.562	3606386.134	40.74
LOCATION	L0001592	VOLUME	497042.282	3606386.170	40.81
LOCATION	L0001593	VOLUME	497039.003	3606386.206	40.83
LOCATION	L0001594	VOLUME	497035.723	3606386.242	40.82
LOCATION	L0001595	VOLUME	497032.443	3606386.278	40.82
LOCATION	L0001596	VOLUME	497029.163	3606386.314	40.81
LOCATION	L0001597	VOLUME	497025.883	3606386.351	40.81
LOCATION	L0001598	VOLUME	497022.604	3606386.387	40.81
LOCATION	L0001599	VOLUME	497019.324	3606386.423	40.80
LOCATION	L0001600	VOLUME	497016.044	3606386.459	40.80
LOCATION	L0001601	VOLUME	497012.764	3606386.495	40.79
LOCATION	L0001602	VOLUME	497009.484	3606386.531	40.78
LOCATION	L0001603	VOLUME	497006.205	3606386.567	40.76
LOCATION	L0001604	VOLUME	497002.925	3606386.603	40.75
LOCATION	L0001605	VOLUME	496999.645	3606386.639	40.74
LOCATION	L0001606	VOLUME	496996.365	3606386.676	40.72
LOCATION	L0001607	VOLUME	496993.085	3606386.712	40.71
LOCATION	L0001608	VOLUME	496989.806	3606386.748	40.70
LOCATION	L0001609	VOLUME	496986.526	3606386.784	40.67
LOCATION	L0001610	VOLUME	496983.246	3606386.820	40.64
LOCATION	L0001611	VOLUME	496979.966	3606386.856	40.62
LOCATION	L0001612	VOLUME	496976.686	3606386.892	40.59
LOCATION	L0001613	VOLUME	496973.407	3606386.928	40.56
LOCATION	L0001614	VOLUME	496970.127	3606386.964	40.53
LOCATION	L0001615	VOLUME	496966.847	3606387.001	40.50
LOCATION	L0001616	VOLUME	496963.567	3606387.037	40.47
LOCATION	L0001617	VOLUME	496960.287	3606387.073	40.45
LOCATION	L0001618	VOLUME	496957.008	3606387.109	40.43
LOCATION	L0001619	VOLUME	496953.728	3606387.145	40.40
LOCATION	L0001620	VOLUME	496950.448	3606387.181	40.38
LOCATION	L0001621	VOLUME	496947.168	3606387.217	40.36
LOCATION	L0001622	VOLUME	496943.888	3606387.253	40.34
LOCATION	L0001623	VOLUME	496940.609	3606387.289	40.32
LOCATION	L0001624	VOLUME	496937.329	3606387.326	40.29
LOCATION	L0001625	VOLUME	496934.049	3606387.362	40.43

LOCATION	L0001626	VOLUME	496930.769	3606387.398	40.57
LOCATION	L0001627	VOLUME	496927.489	3606387.434	40.71
LOCATION	L0001628	VOLUME	496924.210	3606387.470	40.85
LOCATION	L0001629	VOLUME	496920.930	3606387.506	40.99
LOCATION	L0001630	VOLUME	496917.650	3606387.542	41.13
LOCATION	L0001631	VOLUME	496914.370	3606387.578	41.28
LOCATION	L0001632	VOLUME	496911.090	3606387.614	41.42
LOCATION	L0001633	VOLUME	496907.811	3606387.651	41.48
LOCATION	L0001634	VOLUME	496904.531	3606387.687	41.53
LOCATION	L0001635	VOLUME	496901.251	3606387.723	41.59
LOCATION	L0001636	VOLUME	496897.971	3606387.759	41.64
LOCATION	L0001637	VOLUME	496894.691	3606387.795	41.70
LOCATION	L0001638	VOLUME	496891.412	3606387.831	41.75
LOCATION	L0001639	VOLUME	496888.132	3606387.867	41.81
LOCATION	L0001640	VOLUME	496884.852	3606387.903	41.86
LOCATION	L0001641	VOLUME	496881.572	3606387.939	41.91
LOCATION	L0001642	VOLUME	496878.292	3606387.976	41.95
LOCATION	L0001643	VOLUME	496875.013	3606388.012	42.00
LOCATION	L0001644	VOLUME	496871.733	3606388.048	42.04
LOCATION	L0001645	VOLUME	496868.453	3606388.084	42.09
LOCATION	L0001646	VOLUME	496865.173	3606388.120	42.13
LOCATION	L0001647	VOLUME	496861.893	3606388.156	42.17
LOCATION	L0001648	VOLUME	496858.614	3606388.192	42.22
LOCATION	L0001649	VOLUME	496855.334	3606388.228	42.26
LOCATION	L0001650	VOLUME	496852.054	3606388.264	42.30
LOCATION	L0001651	VOLUME	496848.774	3606388.301	42.35
LOCATION	L0001652	VOLUME	496845.494	3606388.337	42.39
LOCATION	L0001653	VOLUME	496842.215	3606388.373	42.43
LOCATION	L0001654	VOLUME	496838.935	3606388.409	42.48
LOCATION	L0001655	VOLUME	496835.655	3606388.445	42.52
LOCATION	L0001656	VOLUME	496832.375	3606388.481	42.56
LOCATION	L0001657	VOLUME	496829.095	3606388.517	42.61
LOCATION	L0001658	VOLUME	496825.816	3606388.553	42.65
LOCATION	L0001659	VOLUME	496822.536	3606388.589	42.70
LOCATION	L0001660	VOLUME	496819.256	3606388.626	42.74
LOCATION	L0001661	VOLUME	496815.976	3606388.662	42.79
LOCATION	L0001662	VOLUME	496812.696	3606388.698	42.83
LOCATION	L0001663	VOLUME	496809.417	3606388.734	42.88
LOCATION	L0001664	VOLUME	496806.137	3606388.770	42.92
LOCATION	L0001665	VOLUME	496802.857	3606388.806	42.94
LOCATION	L0001666	VOLUME	496799.577	3606388.842	42.97
LOCATION	L0001667	VOLUME	496796.297	3606388.878	43.00
LOCATION	L0001668	VOLUME	496793.018	3606388.914	43.03
LOCATION	L0001669	VOLUME	496789.738	3606388.951	43.06
LOCATION	L0001670	VOLUME	496786.458	3606388.987	43.09
LOCATION	L0001671	VOLUME	496783.178	3606389.023	43.12
LOCATION	L0001672	VOLUME	496779.898	3606389.059	43.13
LOCATION	L0001673	VOLUME	496776.619	3606389.095	43.06
LOCATION	L0001674	VOLUME	496773.339	3606389.131	42.99
LOCATION	L0001675	VOLUME	496770.059	3606389.167	42.92
LOCATION	L0001676	VOLUME	496766.779	3606389.203	42.85

LOCATION	L0001677	VOLUME	496763.499	3606389.239	42.78
LOCATION	L0001678	VOLUME	496760.220	3606389.276	42.71
LOCATION	L0001679	VOLUME	496756.940	3606389.312	42.64
LOCATION	L0001680	VOLUME	496753.660	3606389.348	42.57
LOCATION	L0001681	VOLUME	496750.380	3606389.384	42.49
LOCATION	L0001682	VOLUME	496747.100	3606389.420	42.42
LOCATION	L0001683	VOLUME	496743.821	3606389.456	42.35
LOCATION	L0001684	VOLUME	496740.541	3606389.492	42.27
LOCATION	L0001685	VOLUME	496737.261	3606389.528	42.20
LOCATION	L0001686	VOLUME	496733.981	3606389.564	42.12
LOCATION	L0001687	VOLUME	496730.701	3606389.601	42.05
LOCATION	L0001688	VOLUME	496727.422	3606389.637	41.95
LOCATION	L0001689	VOLUME	496724.142	3606389.673	41.82
LOCATION	L0001690	VOLUME	496720.862	3606389.709	41.69
LOCATION	L0001691	VOLUME	496717.582	3606389.745	41.56
LOCATION	L0001692	VOLUME	496714.302	3606389.781	41.43
LOCATION	L0001693	VOLUME	496711.023	3606389.817	41.29
LOCATION	L0001694	VOLUME	496707.743	3606389.853	41.16
LOCATION	L0001695	VOLUME	496704.463	3606389.889	41.03
LOCATION	L0001696	VOLUME	496701.183	3606389.926	40.89
LOCATION	L0001697	VOLUME	496697.903	3606389.962	40.73
LOCATION	L0001698	VOLUME	496694.624	3606389.998	40.57
LOCATION	L0001699	VOLUME	496691.344	3606390.034	40.41
LOCATION	L0001700	VOLUME	496688.064	3606390.070	40.26
LOCATION	L0001701	VOLUME	496684.784	3606390.106	40.10
LOCATION	L0001702	VOLUME	496681.504	3606390.142	39.94
LOCATION	L0001703	VOLUME	496678.225	3606390.178	39.78
LOCATION	L0001704	VOLUME	496674.945	3606390.214	39.66
LOCATION	L0001705	VOLUME	496671.665	3606390.251	39.58
LOCATION	L0001706	VOLUME	496668.385	3606390.287	39.51
LOCATION	L0001707	VOLUME	496665.105	3606390.323	39.43
LOCATION	L0001708	VOLUME	496661.826	3606390.359	39.36
** End of LINE VOLUME Source ID = SLINE4					
LOCATION	STCK1	POINT	497086.160	3606629.320	54.370
** DESCRSRC Idle Position 1					
LOCATION	STCK2	POINT	497085.270	3606660.680	59.380
** DESCRSRC Idle Position 2					
LOCATION	STCK3	POINT	497085.940	3606691.590	62.580
** DESCRSRC Idle Position 3					
LOCATION	STCK4	POINT	497086.160	3606731.400	64.210
** DESCRSRC Idle Position 4					
** -----					
** Line Source Represented by Adjacent Volume Sources					
** LINE VOLUME Source ID = SLINE5					
** DESCRSRC 805 Freeway Northbound Ramp					
** PREFIX					
** Length of Side = 3.28					
** Configuration = Adjacent					
** Emission Rate = 1.15E-06					
** Elevated					
** Vertical Dimension = 3.66					

** SZINIT = 0.85
** Nodes = 3
** 496660.808, 3606392.737, 39.18, 0.00, 1.53
** 496656.048, 3606447.305, 40.21, 0.00, 1.53
** 496635.811, 3606665.221, 55.96, 0.00, 1.53

** LOCATION L0001889 VOLUME 496660.665 3606394.370 39.32
LOCATION L0001890 VOLUME 496660.380 3606397.638 39.30
LOCATION L0001891 VOLUME 496660.095 3606400.906 39.28
LOCATION L0001892 VOLUME 496659.810 3606404.173 39.26
LOCATION L0001893 VOLUME 496659.525 3606407.441 39.33
LOCATION L0001894 VOLUME 496659.240 3606410.708 39.51
LOCATION L0001895 VOLUME 496658.955 3606413.976 39.67
LOCATION L0001896 VOLUME 496658.670 3606417.244 39.83
LOCATION L0001897 VOLUME 496658.385 3606420.511 39.97
LOCATION L0001898 VOLUME 496658.100 3606423.779 40.11
LOCATION L0001899 VOLUME 496657.815 3606427.046 40.23
LOCATION L0001900 VOLUME 496657.530 3606430.314 40.34
LOCATION L0001901 VOLUME 496657.245 3606433.581 40.44
LOCATION L0001902 VOLUME 496656.960 3606436.849 40.53
LOCATION L0001903 VOLUME 496656.675 3606440.117 40.67
LOCATION L0001904 VOLUME 496656.390 3606443.384 40.80
LOCATION L0001905 VOLUME 496656.105 3606446.652 40.93
LOCATION L0001906 VOLUME 496655.805 3606449.918 41.04
LOCATION L0001907 VOLUME 496655.502 3606453.184 41.14
LOCATION L0001908 VOLUME 496655.198 3606456.450 41.24
LOCATION L0001909 VOLUME 496654.895 3606459.716 41.33
LOCATION L0001910 VOLUME 496654.592 3606462.982 41.41
LOCATION L0001911 VOLUME 496654.288 3606466.248 41.48
LOCATION L0001912 VOLUME 496653.985 3606469.514 41.57
LOCATION L0001913 VOLUME 496653.682 3606472.780 41.67
LOCATION L0001914 VOLUME 496653.379 3606476.046 41.77
LOCATION L0001915 VOLUME 496653.075 3606479.312 41.86
LOCATION L0001916 VOLUME 496652.772 3606482.578 41.96
LOCATION L0001917 VOLUME 496652.469 3606485.844 42.04
LOCATION L0001918 VOLUME 496652.165 3606489.109 42.13
LOCATION L0001919 VOLUME 496651.862 3606492.375 42.21
LOCATION L0001920 VOLUME 496651.559 3606495.641 42.29
LOCATION L0001921 VOLUME 496651.255 3606498.907 42.39
LOCATION L0001922 VOLUME 496650.952 3606502.173 42.58
LOCATION L0001923 VOLUME 496650.649 3606505.439 42.77
LOCATION L0001924 VOLUME 496650.346 3606508.705 43.03
LOCATION L0001925 VOLUME 496650.042 3606511.971 43.39
LOCATION L0001926 VOLUME 496649.739 3606515.237 43.75
LOCATION L0001927 VOLUME 496649.436 3606518.503 44.10
LOCATION L0001928 VOLUME 496649.132 3606521.769 44.44
LOCATION L0001929 VOLUME 496648.829 3606525.035 44.78
LOCATION L0001930 VOLUME 496648.526 3606528.301 45.12
LOCATION L0001931 VOLUME 496648.223 3606531.567 45.39
LOCATION L0001932 VOLUME 496647.919 3606534.833 45.64
LOCATION L0001933 VOLUME 496647.616 3606538.099 45.89

LOCATION	L0001934	VOLUME	496647.313	3606541.365	46.13
LOCATION	L0001935	VOLUME	496647.009	3606544.631	46.37
LOCATION	L0001936	VOLUME	496646.706	3606547.897	46.61
LOCATION	L0001937	VOLUME	496646.403	3606551.162	46.84
LOCATION	L0001938	VOLUME	496646.099	3606554.428	47.07
LOCATION	L0001939	VOLUME	496645.796	3606557.694	47.29
LOCATION	L0001940	VOLUME	496645.493	3606560.960	47.56
LOCATION	L0001941	VOLUME	496645.190	3606564.226	47.96
LOCATION	L0001942	VOLUME	496644.886	3606567.492	48.35
LOCATION	L0001943	VOLUME	496644.583	3606570.758	48.72
LOCATION	L0001944	VOLUME	496644.280	3606574.024	49.09
LOCATION	L0001945	VOLUME	496643.976	3606577.290	49.46
LOCATION	L0001946	VOLUME	496643.673	3606580.556	49.81
LOCATION	L0001947	VOLUME	496643.370	3606583.822	50.16
LOCATION	L0001948	VOLUME	496643.066	3606587.088	50.50
LOCATION	L0001949	VOLUME	496642.763	3606590.354	50.83
LOCATION	L0001950	VOLUME	496642.460	3606593.620	51.19
LOCATION	L0001951	VOLUME	496642.157	3606596.886	51.55
LOCATION	L0001952	VOLUME	496641.853	3606600.152	51.89
LOCATION	L0001953	VOLUME	496641.550	3606603.418	52.23
LOCATION	L0001954	VOLUME	496641.247	3606606.684	52.56
LOCATION	L0001955	VOLUME	496640.943	3606609.950	52.88
LOCATION	L0001956	VOLUME	496640.640	3606613.215	53.19
LOCATION	L0001957	VOLUME	496640.337	3606616.481	53.49
LOCATION	L0001958	VOLUME	496640.034	3606619.747	53.78
LOCATION	L0001959	VOLUME	496639.730	3606623.013	54.04
LOCATION	L0001960	VOLUME	496639.427	3606626.279	54.27
LOCATION	L0001961	VOLUME	496639.124	3606629.545	54.50
LOCATION	L0001962	VOLUME	496638.820	3606632.811	54.71
LOCATION	L0001963	VOLUME	496638.517	3606636.077	54.93
LOCATION	L0001964	VOLUME	496638.214	3606639.343	55.14
LOCATION	L0001965	VOLUME	496637.910	3606642.609	55.34
LOCATION	L0001966	VOLUME	496637.607	3606645.875	55.54
LOCATION	L0001967	VOLUME	496637.304	3606649.141	55.73
LOCATION	L0001968	VOLUME	496637.001	3606652.407	55.92
LOCATION	L0001969	VOLUME	496636.697	3606655.673	56.04
LOCATION	L0001970	VOLUME	496636.394	3606658.939	56.15
LOCATION	L0001971	VOLUME	496636.091	3606662.205	56.26

** End of LINE VOLUME Source ID = SLINE5

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = SLINE6

** DESCRSRC Main Street from 805 NB Ramp to SB Ramp

** PREFIX

** Length of Side = 3.28

** Configuration = Adjacent

** Emission Rate = 5.12E-07

** Elevated

** Vertical Dimension = 3.66

** SZINIT = 0.85

** Nodes = 2

** 496657.542, 3606389.788, 39.21, 0.00, 1.53
** 496535.861, 3606385.384, 39.14, 0.00, 1.53

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LOCATION L0001972 VOLUME 496655.903 3606389.729 39.23
LOCATION L0001973 VOLUME 496652.625 3606389.610 39.16
LOCATION L0001974 VOLUME 496649.347 3606389.492 39.21
LOCATION L0001975 VOLUME 496646.069 3606389.373 39.53
LOCATION L0001976 VOLUME 496642.791 3606389.254 39.85
LOCATION L0001977 VOLUME 496639.514 3606389.136 40.15
LOCATION L0001978 VOLUME 496636.236 3606389.017 40.46
LOCATION L0001979 VOLUME 496632.958 3606388.898 40.75
LOCATION L0001980 VOLUME 496629.680 3606388.780 41.04
LOCATION L0001981 VOLUME 496626.402 3606388.661 41.33
LOCATION L0001982 VOLUME 496623.124 3606388.542 41.55
LOCATION L0001983 VOLUME 496619.846 3606388.424 41.66
LOCATION L0001984 VOLUME 496616.569 3606388.305 41.77
LOCATION L0001985 VOLUME 496613.291 3606388.186 41.88
LOCATION L0001986 VOLUME 496610.013 3606388.068 41.99
LOCATION L0001987 VOLUME 496606.735 3606387.949 42.09
LOCATION L0001988 VOLUME 496603.457 3606387.830 42.19
LOCATION L0001989 VOLUME 496600.179 3606387.712 42.29
LOCATION L0001990 VOLUME 496596.901 3606387.593 42.32
LOCATION L0001991 VOLUME 496593.624 3606387.475 42.28
LOCATION L0001992 VOLUME 496590.346 3606387.356 42.23
LOCATION L0001993 VOLUME 496587.068 3606387.237 42.18
LOCATION L0001994 VOLUME 496583.790 3606387.119 42.14
LOCATION L0001995 VOLUME 496580.512 3606387.000 42.09
LOCATION L0001996 VOLUME 496577.234 3606386.881 42.05
LOCATION L0001997 VOLUME 496573.956 3606386.763 42.00
LOCATION L0001998 VOLUME 496570.679 3606386.644 41.79
LOCATION L0001999 VOLUME 496567.401 3606386.525 41.41
LOCATION L0002000 VOLUME 496564.123 3606386.407 41.03
LOCATION L0002001 VOLUME 496560.845 3606386.288 40.66
LOCATION L0002002 VOLUME 496557.567 3606386.169 40.30
LOCATION L0002003 VOLUME 496554.289 3606386.051 39.94
LOCATION L0002004 VOLUME 496551.012 3606385.932 39.60
LOCATION L0002005 VOLUME 496547.734 3606385.814 39.26
LOCATION L0002006 VOLUME 496544.456 3606385.695 39.15
LOCATION L0002007 VOLUME 496541.178 3606385.576 39.26
LOCATION L0002008 VOLUME 496537.900 3606385.458 39.37

** End of LINE VOLUME Source ID = SLINE6

** -----
** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = SLINE7

** DESCRSRC 805 SB Ramp

** PREFIX

** Length of Side = 3.28

** Configuration = Adjacent

** Emission Rate = 1.04E-06

** Elevated

** Vertical Dimension = 3.66

** SZINIT = 0.85
** Nodes = 2
** 496537.129, 3606382.811, 39.16, 0.00, 1.53
** 496567.248, 3606137.652, 39.35, 0.00, 1.53

LOCATION	L0002120	VOLUME	496537.329	3606381.184	39.30
LOCATION	L0002121	VOLUME	496537.729	3606377.928	39.24
LOCATION	L0002122	VOLUME	496538.129	3606374.673	39.17
LOCATION	L0002123	VOLUME	496538.529	3606371.417	39.08
LOCATION	L0002124	VOLUME	496538.929	3606368.161	39.00
LOCATION	L0002125	VOLUME	496539.329	3606364.906	38.92
LOCATION	L0002126	VOLUME	496539.729	3606361.650	38.84
LOCATION	L0002127	VOLUME	496540.129	3606358.395	38.76
LOCATION	L0002128	VOLUME	496540.529	3606355.139	38.69
LOCATION	L0002129	VOLUME	496540.929	3606351.884	38.62
LOCATION	L0002130	VOLUME	496541.329	3606348.628	38.55
LOCATION	L0002131	VOLUME	496541.729	3606345.373	38.49
LOCATION	L0002132	VOLUME	496542.129	3606342.117	38.48
LOCATION	L0002133	VOLUME	496542.529	3606338.862	38.48
LOCATION	L0002134	VOLUME	496542.929	3606335.606	38.50
LOCATION	L0002135	VOLUME	496543.329	3606332.351	38.51
LOCATION	L0002136	VOLUME	496543.728	3606329.095	38.53
LOCATION	L0002137	VOLUME	496544.128	3606325.840	38.55
LOCATION	L0002138	VOLUME	496544.528	3606322.584	38.58
LOCATION	L0002139	VOLUME	496544.928	3606319.329	38.61
LOCATION	L0002140	VOLUME	496545.328	3606316.073	38.64
LOCATION	L0002141	VOLUME	496545.728	3606312.818	38.69
LOCATION	L0002142	VOLUME	496546.128	3606309.562	38.77
LOCATION	L0002143	VOLUME	496546.528	3606306.307	38.91
LOCATION	L0002144	VOLUME	496546.928	3606303.051	39.04
LOCATION	L0002145	VOLUME	496547.328	3606299.795	39.17
LOCATION	L0002146	VOLUME	496547.728	3606296.540	39.30
LOCATION	L0002147	VOLUME	496548.128	3606293.284	39.42
LOCATION	L0002148	VOLUME	496548.528	3606290.029	39.54
LOCATION	L0002149	VOLUME	496548.928	3606286.773	39.65
LOCATION	L0002150	VOLUME	496549.328	3606283.518	39.76
LOCATION	L0002151	VOLUME	496549.728	3606280.262	39.87
LOCATION	L0002152	VOLUME	496550.128	3606277.007	39.99
LOCATION	L0002153	VOLUME	496550.528	3606273.751	40.09
LOCATION	L0002154	VOLUME	496550.928	3606270.496	40.20
LOCATION	L0002155	VOLUME	496551.328	3606267.240	40.30
LOCATION	L0002156	VOLUME	496551.728	3606263.985	40.39
LOCATION	L0002157	VOLUME	496552.128	3606260.729	40.48
LOCATION	L0002158	VOLUME	496552.528	3606257.474	40.57
LOCATION	L0002159	VOLUME	496552.928	3606254.218	40.65
LOCATION	L0002160	VOLUME	496553.328	3606250.963	40.67
LOCATION	L0002161	VOLUME	496553.727	3606247.707	40.59
LOCATION	L0002162	VOLUME	496554.127	3606244.452	40.50
LOCATION	L0002163	VOLUME	496554.527	3606241.196	40.42
LOCATION	L0002164	VOLUME	496554.927	3606237.941	40.34
LOCATION	L0002165	VOLUME	496555.327	3606234.685	40.27

LOCATION	L0002166	VOLUME	496555.727	3606231.429	40.19
LOCATION	L0002167	VOLUME	496556.127	3606228.174	40.12
LOCATION	L0002168	VOLUME	496556.527	3606224.918	40.05
LOCATION	L0002169	VOLUME	496556.927	3606221.663	39.99
LOCATION	L0002170	VOLUME	496557.327	3606218.407	39.91
LOCATION	L0002171	VOLUME	496557.727	3606215.152	39.83
LOCATION	L0002172	VOLUME	496558.127	3606211.896	39.76
LOCATION	L0002173	VOLUME	496558.527	3606208.641	39.68
LOCATION	L0002174	VOLUME	496558.927	3606205.385	39.62
LOCATION	L0002175	VOLUME	496559.327	3606202.130	39.55
LOCATION	L0002176	VOLUME	496559.727	3606198.874	39.49
LOCATION	L0002177	VOLUME	496560.127	3606195.619	39.43
LOCATION	L0002178	VOLUME	496560.527	3606192.363	39.38
LOCATION	L0002179	VOLUME	496560.927	3606189.108	39.32
LOCATION	L0002180	VOLUME	496561.327	3606185.852	39.27
LOCATION	L0002181	VOLUME	496561.727	3606182.597	39.22
LOCATION	L0002182	VOLUME	496562.127	3606179.341	39.17
LOCATION	L0002183	VOLUME	496562.527	3606176.086	39.13
LOCATION	L0002184	VOLUME	496562.927	3606172.830	39.09
LOCATION	L0002185	VOLUME	496563.326	3606169.575	39.05
LOCATION	L0002186	VOLUME	496563.726	3606166.319	39.02
LOCATION	L0002187	VOLUME	496564.126	3606163.063	39.00
LOCATION	L0002188	VOLUME	496564.526	3606159.808	38.97
LOCATION	L0002189	VOLUME	496564.926	3606156.552	38.98
LOCATION	L0002190	VOLUME	496565.326	3606153.297	38.99
LOCATION	L0002191	VOLUME	496565.726	3606150.041	39.00
LOCATION	L0002192	VOLUME	496566.126	3606146.786	39.01
LOCATION	L0002193	VOLUME	496566.526	3606143.530	39.03
LOCATION	L0002194	VOLUME	496566.926	3606140.275	39.04

** End of LINE VOLUME Source ID = SLINE7

** Source Parameters **

** LINE VOLUME Source ID = SLINE1

SRCPARAM	L0001371	0.00000003582	0.00	1.53	0.85
SRCPARAM	L0001372	0.00000003582	0.00	1.53	0.85
SRCPARAM	L0001373	0.00000003582	0.00	1.53	0.85
SRCPARAM	L0001374	0.00000003582	0.00	1.53	0.85
SRCPARAM	L0001375	0.00000003582	0.00	1.53	0.85
SRCPARAM	L0001376	0.00000003582	0.00	1.53	0.85
SRCPARAM	L0001377	0.00000003582	0.00	1.53	0.85
SRCPARAM	L0001378	0.00000003582	0.00	1.53	0.85
SRCPARAM	L0001379	0.00000003582	0.00	1.53	0.85
SRCPARAM	L0001380	0.00000003582	0.00	1.53	0.85
SRCPARAM	L0001381	0.00000003582	0.00	1.53	0.85
SRCPARAM	L0001382	0.00000003582	0.00	1.53	0.85
SRCPARAM	L0001383	0.00000003582	0.00	1.53	0.85
SRCPARAM	L0001384	0.00000003582	0.00	1.53	0.85
SRCPARAM	L0001385	0.00000003582	0.00	1.53	0.85
SRCPARAM	L0001386	0.00000003582	0.00	1.53	0.85
SRCPARAM	L0001387	0.00000003582	0.00	1.53	0.85
SRCPARAM	L0001388	0.00000003582	0.00	1.53	0.85
SRCPARAM	L0001389	0.00000003582	0.00	1.53	0.85

SRCPARAM	L0001439	0.00000002737	0.00	1.53	0.85
SRCPARAM	L0001440	0.00000002737	0.00	1.53	0.85
SRCPARAM	L0001441	0.00000002737	0.00	1.53	0.85
SRCPARAM	L0001442	0.00000002737	0.00	1.53	0.85
SRCPARAM	L0001443	0.00000002737	0.00	1.53	0.85
SRCPARAM	L0001444	0.00000002737	0.00	1.53	0.85
SRCPARAM	L0001445	0.00000002737	0.00	1.53	0.85
SRCPARAM	L0001446	0.00000002737	0.00	1.53	0.85
SRCPARAM	L0001447	0.00000002737	0.00	1.53	0.85
SRCPARAM	L0001448	0.00000002737	0.00	1.53	0.85
SRCPARAM	L0001449	0.00000002737	0.00	1.53	0.85
SRCPARAM	L0001450	0.00000002737	0.00	1.53	0.85
SRCPARAM	L0001451	0.00000002737	0.00	1.53	0.85
SRCPARAM	L0001452	0.00000002737	0.00	1.53	0.85
SRCPARAM	L0001453	0.00000002737	0.00	1.53	0.85
SRCPARAM	L0001454	0.00000002737	0.00	1.53	0.85
SRCPARAM	L0001455	0.00000002737	0.00	1.53	0.85
SRCPARAM	L0001456	0.00000002737	0.00	1.53	0.85
SRCPARAM	L0001457	0.00000002737	0.00	1.53	0.85
SRCPARAM	L0001458	0.00000002737	0.00	1.53	0.85
SRCPARAM	L0001459	0.00000002737	0.00	1.53	0.85
SRCPARAM	L0001460	0.00000002737	0.00	1.53	0.85
SRCPARAM	L0001461	0.00000002737	0.00	1.53	0.85
SRCPARAM	L0001462	0.00000002737	0.00	1.53	0.85
SRCPARAM	L0001463	0.00000002737	0.00	1.53	0.85
SRCPARAM	L0001464	0.00000002737	0.00	1.53	0.85
SRCPARAM	L0001465	0.00000002737	0.00	1.53	0.85
SRCPARAM	L0001466	0.00000002737	0.00	1.53	0.85
SRCPARAM	L0001467	0.00000002737	0.00	1.53	0.85
SRCPARAM	L0001468	0.00000002737	0.00	1.53	0.85
SRCPARAM	L0001469	0.00000002737	0.00	1.53	0.85
SRCPARAM	L0001470	0.00000002737	0.00	1.53	0.85
SRCPARAM	L0001471	0.00000002737	0.00	1.53	0.85
SRCPARAM	L0001472	0.00000002737	0.00	1.53	0.85
SRCPARAM	L0001473	0.00000002737	0.00	1.53	0.85
SRCPARAM	L0001474	0.00000002737	0.00	1.53	0.85
SRCPARAM	L0001475	0.00000002737	0.00	1.53	0.85

**

 ** LINE VOLUME Source ID = SLINE3

SRCPARAM	L0001476	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001477	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001478	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001479	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001480	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001481	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001482	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001483	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001484	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001485	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001486	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001487	0.00000002755	0.00	1.53	0.85

SRCPARAM	L0001488	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001489	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001490	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001491	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001492	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001493	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001494	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001495	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001496	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001497	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001498	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001499	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001500	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001501	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001502	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001503	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001504	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001505	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001506	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001507	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001508	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001509	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001510	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001511	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001512	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001513	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001514	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001515	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001516	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001517	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001518	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001519	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001520	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001521	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001522	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001523	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001524	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001525	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001526	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001527	0.00000002755	0.00	1.53	0.85
SRCPARAM	L0001528	0.00000002755	0.00	1.53	0.85

**

 ** LINE VOLUME Source ID = SLINE4

SRCPARAM	L0001529	0.00000002761	0.00	1.53	0.85
SRCPARAM	L0001530	0.00000002761	0.00	1.53	0.85
SRCPARAM	L0001531	0.00000002761	0.00	1.53	0.85
SRCPARAM	L0001532	0.00000002761	0.00	1.53	0.85
SRCPARAM	L0001533	0.00000002761	0.00	1.53	0.85
SRCPARAM	L0001534	0.00000002761	0.00	1.53	0.85
SRCPARAM	L0001535	0.00000002761	0.00	1.53	0.85
SRCPARAM	L0001536	0.00000002761	0.00	1.53	0.85

SRCPARAM	L0001690	0.00000002761	0.00	1.53	0.85
SRCPARAM	L0001691	0.00000002761	0.00	1.53	0.85
SRCPARAM	L0001692	0.00000002761	0.00	1.53	0.85
SRCPARAM	L0001693	0.00000002761	0.00	1.53	0.85
SRCPARAM	L0001694	0.00000002761	0.00	1.53	0.85
SRCPARAM	L0001695	0.00000002761	0.00	1.53	0.85
SRCPARAM	L0001696	0.00000002761	0.00	1.53	0.85
SRCPARAM	L0001697	0.00000002761	0.00	1.53	0.85
SRCPARAM	L0001698	0.00000002761	0.00	1.53	0.85
SRCPARAM	L0001699	0.00000002761	0.00	1.53	0.85
SRCPARAM	L0001700	0.00000002761	0.00	1.53	0.85
SRCPARAM	L0001701	0.00000002761	0.00	1.53	0.85
SRCPARAM	L0001702	0.00000002761	0.00	1.53	0.85
SRCPARAM	L0001703	0.00000002761	0.00	1.53	0.85
SRCPARAM	L0001704	0.00000002761	0.00	1.53	0.85
SRCPARAM	L0001705	0.00000002761	0.00	1.53	0.85
SRCPARAM	L0001706	0.00000002761	0.00	1.53	0.85
SRCPARAM	L0001707	0.00000002761	0.00	1.53	0.85
SRCPARAM	L0001708	0.00000002761	0.00	1.53	0.85

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SRCPARAM	STCK1	6.25E-06	3.658	366.000	51.90000	0.100
SRCPARAM	STCK2	6.25E-06	3.658	366.000	51.90000	0.100
SRCPARAM	STCK3	6.25E-06	3.658	366.000	551.90000	0.100
SRCPARAM	STCK4	6.25E-06	3.658	366.000	51.90000	0.100

** LINE VOLUME Source ID = SLINES5

SRCPARAM	L0001889	0.00000001386	0.00	1.53	0.85
SRCPARAM	L0001890	0.00000001386	0.00	1.53	0.85
SRCPARAM	L0001891	0.00000001386	0.00	1.53	0.85
SRCPARAM	L0001892	0.00000001386	0.00	1.53	0.85
SRCPARAM	L0001893	0.00000001386	0.00	1.53	0.85
SRCPARAM	L0001894	0.00000001386	0.00	1.53	0.85
SRCPARAM	L0001895	0.00000001386	0.00	1.53	0.85
SRCPARAM	L0001896	0.00000001386	0.00	1.53	0.85
SRCPARAM	L0001897	0.00000001386	0.00	1.53	0.85
SRCPARAM	L0001898	0.00000001386	0.00	1.53	0.85
SRCPARAM	L0001899	0.00000001386	0.00	1.53	0.85
SRCPARAM	L0001900	0.00000001386	0.00	1.53	0.85
SRCPARAM	L0001901	0.00000001386	0.00	1.53	0.85
SRCPARAM	L0001902	0.00000001386	0.00	1.53	0.85
SRCPARAM	L0001903	0.00000001386	0.00	1.53	0.85
SRCPARAM	L0001904	0.00000001386	0.00	1.53	0.85
SRCPARAM	L0001905	0.00000001386	0.00	1.53	0.85
SRCPARAM	L0001906	0.00000001386	0.00	1.53	0.85
SRCPARAM	L0001907	0.00000001386	0.00	1.53	0.85
SRCPARAM	L0001908	0.00000001386	0.00	1.53	0.85
SRCPARAM	L0001909	0.00000001386	0.00	1.53	0.85
SRCPARAM	L0001910	0.00000001386	0.00	1.53	0.85
SRCPARAM	L0001911	0.00000001386	0.00	1.53	0.85
SRCPARAM	L0001912	0.00000001386	0.00	1.53	0.85
SRCPARAM	L0001913	0.00000001386	0.00	1.53	0.85
SRCPARAM	L0001914	0.00000001386	0.00	1.53	0.85

SRCPARAM	L0001966	0.00000001386	0.00	1.53	0.85
SRCPARAM	L0001967	0.00000001386	0.00	1.53	0.85
SRCPARAM	L0001968	0.00000001386	0.00	1.53	0.85
SRCPARAM	L0001969	0.00000001386	0.00	1.53	0.85
SRCPARAM	L0001970	0.00000001386	0.00	1.53	0.85
SRCPARAM	L0001971	0.00000001386	0.00	1.53	0.85

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** LINE VOLUME Source ID = SLINE6

SRCPARAM	L0001972	0.00000001384	0.00	1.53	0.85
SRCPARAM	L0001973	0.00000001384	0.00	1.53	0.85
SRCPARAM	L0001974	0.00000001384	0.00	1.53	0.85
SRCPARAM	L0001975	0.00000001384	0.00	1.53	0.85
SRCPARAM	L0001976	0.00000001384	0.00	1.53	0.85
SRCPARAM	L0001977	0.00000001384	0.00	1.53	0.85
SRCPARAM	L0001978	0.00000001384	0.00	1.53	0.85
SRCPARAM	L0001979	0.00000001384	0.00	1.53	0.85
SRCPARAM	L0001980	0.00000001384	0.00	1.53	0.85
SRCPARAM	L0001981	0.00000001384	0.00	1.53	0.85
SRCPARAM	L0001982	0.00000001384	0.00	1.53	0.85
SRCPARAM	L0001983	0.00000001384	0.00	1.53	0.85
SRCPARAM	L0001984	0.00000001384	0.00	1.53	0.85
SRCPARAM	L0001985	0.00000001384	0.00	1.53	0.85
SRCPARAM	L0001986	0.00000001384	0.00	1.53	0.85
SRCPARAM	L0001987	0.00000001384	0.00	1.53	0.85
SRCPARAM	L0001988	0.00000001384	0.00	1.53	0.85
SRCPARAM	L0001989	0.00000001384	0.00	1.53	0.85
SRCPARAM	L0001990	0.00000001384	0.00	1.53	0.85
SRCPARAM	L0001991	0.00000001384	0.00	1.53	0.85
SRCPARAM	L0001992	0.00000001384	0.00	1.53	0.85
SRCPARAM	L0001993	0.00000001384	0.00	1.53	0.85
SRCPARAM	L0001994	0.00000001384	0.00	1.53	0.85
SRCPARAM	L0001995	0.00000001384	0.00	1.53	0.85
SRCPARAM	L0001996	0.00000001384	0.00	1.53	0.85
SRCPARAM	L0001997	0.00000001384	0.00	1.53	0.85
SRCPARAM	L0001998	0.00000001384	0.00	1.53	0.85
SRCPARAM	L0001999	0.00000001384	0.00	1.53	0.85
SRCPARAM	L0002000	0.00000001384	0.00	1.53	0.85
SRCPARAM	L0002001	0.00000001384	0.00	1.53	0.85
SRCPARAM	L0002002	0.00000001384	0.00	1.53	0.85
SRCPARAM	L0002003	0.00000001384	0.00	1.53	0.85
SRCPARAM	L0002004	0.00000001384	0.00	1.53	0.85
SRCPARAM	L0002005	0.00000001384	0.00	1.53	0.85
SRCPARAM	L0002006	0.00000001384	0.00	1.53	0.85
SRCPARAM	L0002007	0.00000001384	0.00	1.53	0.85
SRCPARAM	L0002008	0.00000001384	0.00	1.53	0.85

** -----

** LINE VOLUME Source ID = SLINE7

SRCPARAM	L0002120	0.00000001387	0.00	1.53	0.85
SRCPARAM	L0002121	0.00000001387	0.00	1.53	0.85
SRCPARAM	L0002122	0.00000001387	0.00	1.53	0.85
SRCPARAM	L0002123	0.00000001387	0.00	1.53	0.85

BUILDLLEN	STCK4	199.35	209.63	213.75	211.76	203.33	188.72
BUILDLLEN	STCK4	202.46	211.62	214.35	210.68	201.08	185.37
BUILDLLEN	STCK4	164.25	138.47	108.47	134.62	161.13	183.02
BUILDLLEN	STCK4	199.35	209.63	213.75	211.76	203.33	188.72
XBADJ	STCK1	-61.02	-75.09	-86.87	-96.02	-102.25	-105.37
XBADJ	STCK1	-105.29	-102.01	-95.63	-116.76	-136.70	-152.49
XBADJ	STCK1	-163.64	-169.83	-170.85	-166.68	-157.45	-143.43
XBADJ	STCK1	-141.44	-136.53	-127.48	-114.66	-98.83	-80.00
XBADJ	STCK1	-58.97	-36.46	-12.84	-17.86	-24.43	-30.53
XBADJ	STCK1	-35.71	-39.80	-42.90	-45.08	-45.88	-45.29
XBADJ	STCK2	-91.75	-104.25	-113.59	-119.47	-121.72	-120.28
XBADJ	STCK2	-115.18	-106.58	-94.74	-110.44	-125.14	-136.04
XBADJ	STCK2	-142.80	-145.23	-143.25	-136.91	-126.41	-112.07
XBADJ	STCK2	-110.71	-107.37	-100.77	-91.21	-79.36	-65.09
XBADJ	STCK2	-49.08	-31.89	-13.73	-24.18	-35.99	-46.98
XBADJ	STCK2	-56.55	-64.40	-70.51	-74.85	-76.92	-76.65
XBADJ	STCK3	-122.31	-133.53	-140.69	-143.58	-142.10	-136.31
XBADJ	STCK3	-126.38	-112.61	-95.41	-105.73	-115.20	-121.16
XBADJ	STCK3	-123.45	-121.98	-116.81	-108.09	-96.08	-81.16
XBADJ	STCK3	-80.16	-78.09	-73.66	-67.10	-58.97	-49.06
XBADJ	STCK3	-37.88	-25.86	-13.06	-28.89	-45.93	-61.86
XBADJ	STCK3	-75.91	-87.65	-96.94	-103.67	-107.24	-107.56
XBADJ	STCK4	-161.55	-171.01	-175.28	-174.22	-167.86	-156.41
XBADJ	STCK4	-140.20	-119.73	-95.63	-99.03	-101.79	-101.45
XBADJ	STCK4	-98.03	-91.63	-82.45	-70.76	-56.92	-41.35
XBADJ	STCK4	-40.91	-40.61	-39.08	-36.46	-33.22	-28.96
XBADJ	STCK4	-24.05	-18.73	-12.84	-35.59	-59.34	-81.57
XBADJ	STCK4	-101.33	-118.00	-131.31	-141.00	-146.41	-147.37
YBADJ	STCK1	49.45	56.14	60.98	63.97	65.01	63.97
YBADJ	STCK1	60.80	55.78	49.07	40.21	30.72	20.30
YBADJ	STCK1	9.32	-1.71	-12.68	-23.16	-32.78	-41.40
YBADJ	STCK1	-49.45	-56.14	-60.98	-63.97	-65.01	-63.97
YBADJ	STCK1	-60.80	-55.78	-49.07	-40.21	-30.72	-20.30
YBADJ	STCK1	-9.32	1.71	12.68	23.16	32.78	41.40
YBADJ	STCK2	43.13	44.57	44.53	43.13	40.42	36.37
YBADJ	STCK2	31.03	24.75	17.71	9.48	1.56	-6.41
YBADJ	STCK2	-14.13	-21.18	-27.59	-33.05	-37.34	-40.51
YBADJ	STCK2	-43.13	-44.57	-44.53	-43.13	-40.42	-36.37
YBADJ	STCK2	-31.03	-24.75	-17.71	-9.48	-1.56	6.41
YBADJ	STCK2	14.13	21.18	27.59	33.05	37.34	40.51
YBADJ	STCK3	38.42	34.63	29.65	23.77	17.17	9.94
YBADJ	STCK3	2.21	-5.58	-13.20	-21.08	-27.72	-33.51
YBADJ	STCK3	-38.24	-41.56	-43.63	-44.25	-43.37	-41.17
YBADJ	STCK3	-38.42	-34.63	-29.65	-23.77	-17.17	-9.94

YBADJ	STCK3	-2.21	5.58	13.20	21.08	27.72	33.51
YBADJ	STCK3	38.24	41.56	43.63	44.25	43.37	41.17
YBADJ	STCK4	31.72	21.22	9.94	-1.65	-13.19	-24.43
YBADJ	STCK4	-35.12	-44.75	-53.01	-60.32	-65.20	-68.10
YBADJ	STCK4	-68.88	-67.32	-63.72	-58.07	-50.50	-41.39
YBADJ	STCK4	-31.72	-21.22	-9.94	1.65	13.19	24.43
YBADJ	STCK4	35.12	44.75	53.01	60.32	65.20	68.10
YBADJ	STCK4	68.88	67.32	63.72	58.07	50.50	41.39

```

SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
  INCLUDED "Shinohara HRA - 1st 14 yrs.rou"
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
  SURFFILE C:\Users\cateh\OneDrive\Desktop\HRA\722904.SFC
  PROFFILE C:\Users\cateh\OneDrive\Desktop\HRA\722904.PFL
  SURFDATA 3178 2009
  UAIRDATA 3190 2009
  PROFBASE 157.0 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
** Auto-Generated Plotfiles
  PLOTFILE PERIOD ALL "SHINOHARA HRA - 1ST 14 YRS.AD\PE00GALL.PLT" 31
  SUMMFILE "Shinohara HRA - 1st 14 yrs.sum"
OU FINISHED

```

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

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

A Total of 0 Fatal Error Message(s)
A Total of 4 Warning Message(s)
A Total of 0 Informational Message(s)

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

***** WARNING MESSAGES *****

SO W320	1041	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	1042	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	1043	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	1044	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS

*** SETUP Finishes Successfully ***

**Output Options Selected:

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

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

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 157.00 ; 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 = 4.5 MB of RAM.

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

**Detailed Error/Message File: Shinohara HRA - 1st 14 yrs.err
**File for Summary of Results: Shinohara HRA - 1st 14 yrs.sum

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
 *** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1st 14 years ***

08/04/21
 20:31:06
 PAGE 3

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** 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	EMISSION RATE SCALAR VARY BY
L0001371	0	0.35820E-07	497124.0	3606564.8	46.9	0.00	1.53	0.85	NO	
L0001372	0	0.35820E-07	497121.7	3606567.2	46.8	0.00	1.53	0.85	NO	
L0001373	0	0.35820E-07	497119.5	3606569.6	46.7	0.00	1.53	0.85	NO	
L0001374	0	0.35820E-07	497117.2	3606572.0	46.9	0.00	1.53	0.85	NO	
L0001375	0	0.35820E-07	497115.8	3606574.9	47.2	0.00	1.53	0.85	NO	
L0001376	0	0.35820E-07	497114.7	3606578.0	47.4	0.00	1.53	0.85	NO	
L0001377	0	0.35820E-07	497113.6	3606581.1	47.7	0.00	1.53	0.85	NO	
L0001378	0	0.35820E-07	497112.5	3606584.2	47.9	0.00	1.53	0.85	NO	
L0001379	0	0.35820E-07	497111.5	3606587.3	48.1	0.00	1.53	0.85	NO	
L0001380	0	0.35820E-07	497111.5	3606590.5	48.4	0.00	1.53	0.85	NO	
L0001381	0	0.35820E-07	497111.6	3606593.8	48.7	0.00	1.53	0.85	NO	
L0001382	0	0.35820E-07	497111.7	3606597.1	48.9	0.00	1.53	0.85	NO	
L0001383	0	0.35820E-07	497111.8	3606600.4	49.2	0.00	1.53	0.85	NO	
L0001384	0	0.35820E-07	497111.9	3606603.7	49.5	0.00	1.53	0.85	NO	
L0001385	0	0.35820E-07	497112.0	3606606.9	49.8	0.00	1.53	0.85	NO	
L0001386	0	0.35820E-07	497112.1	3606610.2	50.1	0.00	1.53	0.85	NO	
L0001387	0	0.35820E-07	497112.2	3606613.5	50.4	0.00	1.53	0.85	NO	
L0001388	0	0.35820E-07	497112.3	3606616.8	50.6	0.00	1.53	0.85	NO	
L0001389	0	0.35820E-07	497112.3	3606620.1	50.9	0.00	1.53	0.85	NO	
L0001390	0	0.35820E-07	497112.4	3606623.3	51.2	0.00	1.53	0.85	NO	
L0001391	0	0.35820E-07	497112.5	3606626.6	51.5	0.00	1.53	0.85	NO	
L0001392	0	0.35820E-07	497112.6	3606629.9	51.8	0.00	1.53	0.85	NO	
L0001393	0	0.35820E-07	497112.7	3606633.2	52.1	0.00	1.53	0.85	NO	
L0001394	0	0.35820E-07	497112.8	3606636.5	52.4	0.00	1.53	0.85	NO	
L0001395	0	0.35820E-07	497112.9	3606639.7	52.7	0.00	1.53	0.85	NO	
L0001396	0	0.35820E-07	497113.0	3606643.0	53.0	0.00	1.53	0.85	NO	
L0001397	0	0.35820E-07	497113.1	3606646.3	53.3	0.00	1.53	0.85	NO	
L0001398	0	0.35820E-07	497113.1	3606649.6	53.6	0.00	1.53	0.85	NO	
L0001399	0	0.35820E-07	497113.2	3606652.8	53.9	0.00	1.53	0.85	NO	
L0001400	0	0.35820E-07	497113.3	3606656.1	54.3	0.00	1.53	0.85	NO	
L0001401	0	0.35820E-07	497113.3	3606659.4	54.7	0.00	1.53	0.85	NO	
L0001402	0	0.35820E-07	497113.3	3606662.7	55.1	0.00	1.53	0.85	NO	
L0001403	0	0.35820E-07	497113.3	3606666.0	55.5	0.00	1.53	0.85	NO	
L0001404	0	0.35820E-07	497113.3	3606669.2	56.0	0.00	1.53	0.85	NO	
L0001405	0	0.35820E-07	497113.3	3606672.5	56.4	0.00	1.53	0.85	NO	
L0001406	0	0.35820E-07	497113.3	3606675.8	56.8	0.00	1.53	0.85	NO	
L0001407	0	0.35820E-07	497113.3	3606679.1	57.2	0.00	1.53	0.85	NO	
L0001408	0	0.35820E-07	497113.3	3606682.4	57.6	0.00	1.53	0.85	NO	

L0001409	0	0.35820E-07	497113.3	3606685.6	58.0	0.00	1.53	0.85	NO
L0001410	0	0.35820E-07	497113.3	3606688.9	58.3	0.00	1.53	0.85	NO

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
 *** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1st 14 years ***

08/04/21
 20:31:06
 PAGE 4

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** 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	EMISSION RATE SCALAR VARY BY
L0001411	0	0.35820E-07	497113.3	3606692.2	58.7	0.00	1.53	0.85	NO	
L0001412	0	0.35820E-07	497113.3	3606695.5	59.1	0.00	1.53	0.85	NO	
L0001413	0	0.35820E-07	497113.3	3606698.8	59.5	0.00	1.53	0.85	NO	
L0001414	0	0.35820E-07	497113.3	3606702.0	59.9	0.00	1.53	0.85	NO	
L0001415	0	0.35820E-07	497113.3	3606705.3	60.3	0.00	1.53	0.85	NO	
L0001416	0	0.35820E-07	497113.3	3606708.6	60.7	0.00	1.53	0.85	NO	
L0001417	0	0.35820E-07	497113.3	3606711.9	61.1	0.00	1.53	0.85	NO	
L0001418	0	0.35820E-07	497113.3	3606715.2	61.5	0.00	1.53	0.85	NO	
L0001419	0	0.35820E-07	497113.3	3606718.4	61.9	0.00	1.53	0.85	NO	
L0001420	0	0.35820E-07	497113.3	3606721.7	62.3	0.00	1.53	0.85	NO	
L0001421	0	0.35820E-07	497113.3	3606725.0	62.7	0.00	1.53	0.85	NO	
L0001422	0	0.35820E-07	497113.3	3606728.3	63.1	0.00	1.53	0.85	NO	
L0001423	0	0.35820E-07	497113.3	3606731.6	63.6	0.00	1.53	0.85	NO	
L0001424	0	0.35820E-07	497113.3	3606734.8	64.0	0.00	1.53	0.85	NO	
L0001425	0	0.35820E-07	497113.3	3606738.1	64.4	0.00	1.53	0.85	NO	
L0001426	0	0.35820E-07	497113.3	3606741.4	64.8	0.00	1.53	0.85	NO	
L0001427	0	0.35820E-07	497113.3	3606744.7	65.2	0.00	1.53	0.85	NO	
L0001428	0	0.35820E-07	497113.3	3606748.0	66.0	0.00	1.53	0.85	NO	
L0001429	0	0.35820E-07	497113.3	3606751.2	66.8	0.00	1.53	0.85	NO	
L0001430	0	0.35820E-07	497113.3	3606754.5	67.6	0.00	1.53	0.85	NO	
L0001431	0	0.35820E-07	497113.3	3606757.8	68.4	0.00	1.53	0.85	NO	
L0001432	0	0.35820E-07	497113.3	3606761.1	69.2	0.00	1.53	0.85	NO	
L0001433	0	0.35820E-07	497113.3	3606764.4	70.0	0.00	1.53	0.85	NO	
L0001434	0	0.35820E-07	497113.3	3606767.6	70.8	0.00	1.53	0.85	NO	
L0001435	0	0.35820E-07	497113.3	3606770.9	71.6	0.00	1.53	0.85	NO	
L0001436	0	0.35820E-07	497113.3	3606774.2	72.4	0.00	1.53	0.85	NO	
L0001437	0	0.35820E-07	497113.3	3606777.5	72.9	0.00	1.53	0.85	NO	
L0001438	0	0.27370E-07	497127.2	3606561.3	46.9	0.00	1.53	0.85	NO	
L0001439	0	0.27370E-07	497130.0	3606560.3	47.1	0.00	1.53	0.85	NO	
L0001440	0	0.27370E-07	497133.2	3606560.2	47.5	0.00	1.53	0.85	NO	
L0001441	0	0.27370E-07	497136.5	3606560.2	47.8	0.00	1.53	0.85	NO	
L0001442	0	0.27370E-07	497139.8	3606560.2	48.2	0.00	1.53	0.85	NO	
L0001443	0	0.27370E-07	497143.1	3606560.2	48.5	0.00	1.53	0.85	NO	
L0001444	0	0.27370E-07	497146.4	3606560.2	48.8	0.00	1.53	0.85	NO	
L0001445	0	0.27370E-07	497149.6	3606560.1	48.7	0.00	1.53	0.85	NO	
L0001446	0	0.27370E-07	497152.9	3606560.1	48.6	0.00	1.53	0.85	NO	
L0001447	0	0.27370E-07	497156.2	3606560.1	48.5	0.00	1.53	0.85	NO	
L0001448	0	0.27370E-07	497159.5	3606560.1	48.4	0.00	1.53	0.85	NO	

L0001449	0	0.27370E-07	497162.8	3606560.1	48.3	0.00	1.53	0.85	NO
L0001450	0	0.27370E-07	497166.0	3606560.0	48.1	0.00	1.53	0.85	NO

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** 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	EMISSION RATE SCALAR VARY BY
L0001451	0	0.27370E-07	497169.3	3606560.0	48.0	0.00	1.53	0.85	NO	
L0001452	0	0.27370E-07	497172.6	3606560.0	48.0	0.00	1.53	0.85	NO	
L0001453	0	0.27370E-07	497175.9	3606560.0	48.0	0.00	1.53	0.85	NO	
L0001454	0	0.27370E-07	497179.2	3606560.0	48.1	0.00	1.53	0.85	NO	
L0001455	0	0.27370E-07	497182.4	3606559.9	48.1	0.00	1.53	0.85	NO	
L0001456	0	0.27370E-07	497185.7	3606559.9	48.2	0.00	1.53	0.85	NO	
L0001457	0	0.27370E-07	497189.0	3606559.9	48.2	0.00	1.53	0.85	NO	
L0001458	0	0.27370E-07	497192.3	3606559.9	48.2	0.00	1.53	0.85	NO	
L0001459	0	0.27370E-07	497195.6	3606559.9	48.3	0.00	1.53	0.85	NO	
L0001460	0	0.27370E-07	497198.8	3606559.9	48.3	0.00	1.53	0.85	NO	
L0001461	0	0.27370E-07	497202.1	3606559.8	48.4	0.00	1.53	0.85	NO	
L0001462	0	0.27370E-07	497205.4	3606559.8	48.4	0.00	1.53	0.85	NO	
L0001463	0	0.27370E-07	497208.7	3606559.8	48.4	0.00	1.53	0.85	NO	
L0001464	0	0.27370E-07	497212.0	3606559.8	48.4	0.00	1.53	0.85	NO	
L0001465	0	0.27370E-07	497215.2	3606559.8	48.4	0.00	1.53	0.85	NO	
L0001466	0	0.27370E-07	497218.5	3606559.7	48.4	0.00	1.53	0.85	NO	
L0001467	0	0.27370E-07	497221.8	3606559.7	48.5	0.00	1.53	0.85	NO	
L0001468	0	0.27370E-07	497225.1	3606559.7	48.5	0.00	1.53	0.85	NO	
L0001469	0	0.27370E-07	497228.4	3606559.7	48.5	0.00	1.53	0.85	NO	
L0001470	0	0.27370E-07	497231.6	3606559.7	48.4	0.00	1.53	0.85	NO	
L0001471	0	0.27370E-07	497234.9	3606559.6	48.4	0.00	1.53	0.85	NO	
L0001472	0	0.27370E-07	497238.2	3606559.6	48.4	0.00	1.53	0.85	NO	
L0001473	0	0.27370E-07	497241.5	3606559.6	48.4	0.00	1.53	0.85	NO	
L0001474	0	0.27370E-07	497244.8	3606559.6	48.3	0.00	1.53	0.85	NO	
L0001475	0	0.27370E-07	497248.0	3606559.6	48.3	0.00	1.53	0.85	NO	
L0001476	0	0.27550E-07	497250.0	3606557.6	48.2	0.00	1.53	0.85	NO	
L0001477	0	0.27550E-07	497250.0	3606554.3	48.1	0.00	1.53	0.85	NO	
L0001478	0	0.27550E-07	497250.0	3606551.0	48.0	0.00	1.53	0.85	NO	
L0001479	0	0.27550E-07	497250.1	3606547.8	47.9	0.00	1.53	0.85	NO	
L0001480	0	0.27550E-07	497250.1	3606544.5	47.8	0.00	1.53	0.85	NO	
L0001481	0	0.27550E-07	497250.1	3606541.2	47.7	0.00	1.53	0.85	NO	
L0001482	0	0.27550E-07	497250.1	3606537.9	47.6	0.00	1.53	0.85	NO	
L0001483	0	0.27550E-07	497250.2	3606534.6	47.5	0.00	1.53	0.85	NO	
L0001484	0	0.27550E-07	497250.2	3606531.4	47.4	0.00	1.53	0.85	NO	
L0001485	0	0.27550E-07	497250.2	3606528.1	47.3	0.00	1.53	0.85	NO	
L0001486	0	0.27550E-07	497250.2	3606524.8	47.1	0.00	1.53	0.85	NO	
L0001487	0	0.27550E-07	497250.2	3606521.5	47.0	0.00	1.53	0.85	NO	
L0001488	0	0.27550E-07	497250.3	3606518.2	46.9	0.00	1.53	0.85	NO	

L0001489	0	0.27550E-07	497250.3	3606515.0	46.8	0.00	1.53	0.85	NO
L0001490	0	0.27550E-07	497250.3	3606511.7	46.6	0.00	1.53	0.85	NO

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
 *** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1st 14 years ***

08/04/21
 20:31:06
 PAGE 6

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** 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	EMISSION RATE SCALAR VARY BY
L0001491	0	0.27550E-07	497250.3	3606508.4	46.5	0.00	1.53	0.85	NO	
L0001492	0	0.27550E-07	497250.4	3606505.1	46.4	0.00	1.53	0.85	NO	
L0001493	0	0.27550E-07	497250.4	3606501.8	46.3	0.00	1.53	0.85	NO	
L0001494	0	0.27550E-07	497250.4	3606498.6	46.1	0.00	1.53	0.85	NO	
L0001495	0	0.27550E-07	497250.4	3606495.3	46.0	0.00	1.53	0.85	NO	
L0001496	0	0.27550E-07	497250.5	3606492.0	45.8	0.00	1.53	0.85	NO	
L0001497	0	0.27550E-07	497250.5	3606488.7	45.7	0.00	1.53	0.85	NO	
L0001498	0	0.27550E-07	497250.5	3606485.4	45.5	0.00	1.53	0.85	NO	
L0001499	0	0.27550E-07	497250.5	3606482.2	45.4	0.00	1.53	0.85	NO	
L0001500	0	0.27550E-07	497250.5	3606478.9	45.2	0.00	1.53	0.85	NO	
L0001501	0	0.27550E-07	497250.6	3606475.6	45.1	0.00	1.53	0.85	NO	
L0001502	0	0.27550E-07	497250.6	3606472.3	44.9	0.00	1.53	0.85	NO	
L0001503	0	0.27550E-07	497250.6	3606469.0	44.8	0.00	1.53	0.85	NO	
L0001504	0	0.27550E-07	497250.6	3606465.8	44.6	0.00	1.53	0.85	NO	
L0001505	0	0.27550E-07	497250.7	3606462.5	44.4	0.00	1.53	0.85	NO	
L0001506	0	0.27550E-07	497250.7	3606459.2	44.2	0.00	1.53	0.85	NO	
L0001507	0	0.27550E-07	497250.7	3606455.9	44.1	0.00	1.53	0.85	NO	
L0001508	0	0.27550E-07	497250.7	3606452.6	43.9	0.00	1.53	0.85	NO	
L0001509	0	0.27550E-07	497250.8	3606449.4	43.7	0.00	1.53	0.85	NO	
L0001510	0	0.27550E-07	497250.8	3606446.1	43.5	0.00	1.53	0.85	NO	
L0001511	0	0.27550E-07	497250.8	3606442.8	43.4	0.00	1.53	0.85	NO	
L0001512	0	0.27550E-07	497250.8	3606439.5	43.2	0.00	1.53	0.85	NO	
L0001513	0	0.27550E-07	497250.8	3606436.2	43.0	0.00	1.53	0.85	NO	
L0001514	0	0.27550E-07	497250.9	3606433.0	42.9	0.00	1.53	0.85	NO	
L0001515	0	0.27550E-07	497250.9	3606429.7	42.8	0.00	1.53	0.85	NO	
L0001516	0	0.27550E-07	497250.9	3606426.4	42.6	0.00	1.53	0.85	NO	
L0001517	0	0.27550E-07	497250.9	3606423.1	42.5	0.00	1.53	0.85	NO	
L0001518	0	0.27550E-07	497251.0	3606419.8	42.3	0.00	1.53	0.85	NO	
L0001519	0	0.27550E-07	497251.0	3606416.6	42.2	0.00	1.53	0.85	NO	
L0001520	0	0.27550E-07	497251.0	3606413.3	42.1	0.00	1.53	0.85	NO	
L0001521	0	0.27550E-07	497251.0	3606410.0	41.9	0.00	1.53	0.85	NO	
L0001522	0	0.27550E-07	497251.1	3606406.7	41.8	0.00	1.53	0.85	NO	
L0001523	0	0.27550E-07	497251.1	3606403.4	41.8	0.00	1.53	0.85	NO	
L0001524	0	0.27550E-07	497251.1	3606400.2	41.8	0.00	1.53	0.85	NO	
L0001525	0	0.27550E-07	497251.1	3606396.9	41.9	0.00	1.53	0.85	NO	
L0001526	0	0.27550E-07	497251.1	3606393.6	41.9	0.00	1.53	0.85	NO	
L0001527	0	0.27550E-07	497251.2	3606390.3	41.9	0.00	1.53	0.85	NO	
L0001528	0	0.27550E-07	497251.2	3606387.0	42.0	0.00	1.53	0.85	NO	

L0001529	0	0.27610E-07	497248.9	3606383.9	42.0	0.00	1.53	0.85	NO
L0001530	0	0.27610E-07	497245.6	3606383.9	42.0	0.00	1.53	0.85	NO

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
 *** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1st 14 years ***

08/04/21
 20:31:06
 PAGE 7

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** 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	EMISSION RATE SCALAR VARY BY
L0001531	0	0.27610E-07	497242.3	3606384.0	42.1	0.00	1.53	0.85	NO	
L0001532	0	0.27610E-07	497239.1	3606384.0	42.1	0.00	1.53	0.85	NO	
L0001533	0	0.27610E-07	497235.8	3606384.0	42.1	0.00	1.53	0.85	NO	
L0001534	0	0.27610E-07	497232.5	3606384.1	42.2	0.00	1.53	0.85	NO	
L0001535	0	0.27610E-07	497229.2	3606384.1	42.2	0.00	1.53	0.85	NO	
L0001536	0	0.27610E-07	497226.0	3606384.1	42.3	0.00	1.53	0.85	NO	
L0001537	0	0.27610E-07	497222.7	3606384.2	42.3	0.00	1.53	0.85	NO	
L0001538	0	0.27610E-07	497219.4	3606384.2	42.3	0.00	1.53	0.85	NO	
L0001539	0	0.27610E-07	497216.1	3606384.3	42.3	0.00	1.53	0.85	NO	
L0001540	0	0.27610E-07	497212.8	3606384.3	42.3	0.00	1.53	0.85	NO	
L0001541	0	0.27610E-07	497209.6	3606384.3	42.2	0.00	1.53	0.85	NO	
L0001542	0	0.27610E-07	497206.3	3606384.4	42.2	0.00	1.53	0.85	NO	
L0001543	0	0.27610E-07	497203.0	3606384.4	42.2	0.00	1.53	0.85	NO	
L0001544	0	0.27610E-07	497199.7	3606384.4	42.2	0.00	1.53	0.85	NO	
L0001545	0	0.27610E-07	497196.4	3606384.5	42.2	0.00	1.53	0.85	NO	
L0001546	0	0.27610E-07	497193.2	3606384.5	42.2	0.00	1.53	0.85	NO	
L0001547	0	0.27610E-07	497189.9	3606384.5	42.2	0.00	1.53	0.85	NO	
L0001548	0	0.27610E-07	497186.6	3606384.6	42.2	0.00	1.53	0.85	NO	
L0001549	0	0.27610E-07	497183.3	3606384.6	42.2	0.00	1.53	0.85	NO	
L0001550	0	0.27610E-07	497180.0	3606384.7	42.2	0.00	1.53	0.85	NO	
L0001551	0	0.27610E-07	497176.8	3606384.7	42.2	0.00	1.53	0.85	NO	
L0001552	0	0.27610E-07	497173.5	3606384.7	42.2	0.00	1.53	0.85	NO	
L0001553	0	0.27610E-07	497170.2	3606384.8	42.2	0.00	1.53	0.85	NO	
L0001554	0	0.27610E-07	497166.9	3606384.8	42.2	0.00	1.53	0.85	NO	
L0001555	0	0.27610E-07	497163.6	3606384.8	42.2	0.00	1.53	0.85	NO	
L0001556	0	0.27610E-07	497160.4	3606384.9	42.2	0.00	1.53	0.85	NO	
L0001557	0	0.27610E-07	497157.1	3606384.9	42.2	0.00	1.53	0.85	NO	
L0001558	0	0.27610E-07	497153.8	3606384.9	42.2	0.00	1.53	0.85	NO	
L0001559	0	0.27610E-07	497150.5	3606385.0	42.2	0.00	1.53	0.85	NO	
L0001560	0	0.27610E-07	497147.2	3606385.0	42.2	0.00	1.53	0.85	NO	
L0001561	0	0.27610E-07	497144.0	3606385.1	42.2	0.00	1.53	0.85	NO	
L0001562	0	0.27610E-07	497140.7	3606385.1	42.1	0.00	1.53	0.85	NO	
L0001563	0	0.27610E-07	497137.4	3606385.1	42.0	0.00	1.53	0.85	NO	
L0001564	0	0.27610E-07	497134.1	3606385.2	41.8	0.00	1.53	0.85	NO	
L0001565	0	0.27610E-07	497130.8	3606385.2	41.7	0.00	1.53	0.85	NO	
L0001566	0	0.27610E-07	497127.6	3606385.2	41.6	0.00	1.53	0.85	NO	
L0001567	0	0.27610E-07	497124.3	3606385.3	41.5	0.00	1.53	0.85	NO	
L0001568	0	0.27610E-07	497121.0	3606385.3	41.4	0.00	1.53	0.85	NO	

L0001569	0	0.27610E-07	497117.7	3606385.3	41.3	0.00	1.53	0.85	NO
L0001570	0	0.27610E-07	497114.4	3606385.4	41.4	0.00	1.53	0.85	NO

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
 *** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1st 14 years ***

08/04/21
 20:31:06
 PAGE 8

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** 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	EMISSION RATE SCALAR VARY BY
L0001571	0	0.27610E-07	497111.2	3606385.4	41.4	0.00	1.53	0.85	NO	
L0001572	0	0.27610E-07	497107.9	3606385.4	41.4	0.00	1.53	0.85	NO	
L0001573	0	0.27610E-07	497104.6	3606385.5	41.4	0.00	1.53	0.85	NO	
L0001574	0	0.27610E-07	497101.3	3606385.5	41.4	0.00	1.53	0.85	NO	
L0001575	0	0.27610E-07	497098.0	3606385.6	41.5	0.00	1.53	0.85	NO	
L0001576	0	0.27610E-07	497094.8	3606385.6	41.5	0.00	1.53	0.85	NO	
L0001577	0	0.27610E-07	497091.5	3606385.6	41.4	0.00	1.53	0.85	NO	
L0001578	0	0.27610E-07	497088.2	3606385.7	41.2	0.00	1.53	0.85	NO	
L0001579	0	0.27610E-07	497084.9	3606385.7	41.1	0.00	1.53	0.85	NO	
L0001580	0	0.27610E-07	497081.6	3606385.7	40.9	0.00	1.53	0.85	NO	
L0001581	0	0.27610E-07	497078.4	3606385.8	40.8	0.00	1.53	0.85	NO	
L0001582	0	0.27610E-07	497075.1	3606385.8	40.6	0.00	1.53	0.85	NO	
L0001583	0	0.27610E-07	497071.8	3606385.8	40.5	0.00	1.53	0.85	NO	
L0001584	0	0.27610E-07	497068.5	3606385.9	40.3	0.00	1.53	0.85	NO	
L0001585	0	0.27610E-07	497065.2	3606385.9	40.3	0.00	1.53	0.85	NO	
L0001586	0	0.27610E-07	497062.0	3606386.0	40.4	0.00	1.53	0.85	NO	
L0001587	0	0.27610E-07	497058.7	3606386.0	40.5	0.00	1.53	0.85	NO	
L0001588	0	0.27610E-07	497055.4	3606386.0	40.5	0.00	1.53	0.85	NO	
L0001589	0	0.27610E-07	497052.1	3606386.1	40.6	0.00	1.53	0.85	NO	
L0001590	0	0.27610E-07	497048.8	3606386.1	40.7	0.00	1.53	0.85	NO	
L0001591	0	0.27610E-07	497045.6	3606386.1	40.7	0.00	1.53	0.85	NO	
L0001592	0	0.27610E-07	497042.3	3606386.2	40.8	0.00	1.53	0.85	NO	
L0001593	0	0.27610E-07	497039.0	3606386.2	40.8	0.00	1.53	0.85	NO	
L0001594	0	0.27610E-07	497035.7	3606386.2	40.8	0.00	1.53	0.85	NO	
L0001595	0	0.27610E-07	497032.4	3606386.3	40.8	0.00	1.53	0.85	NO	
L0001596	0	0.27610E-07	497029.2	3606386.3	40.8	0.00	1.53	0.85	NO	
L0001597	0	0.27610E-07	497025.9	3606386.4	40.8	0.00	1.53	0.85	NO	
L0001598	0	0.27610E-07	497022.6	3606386.4	40.8	0.00	1.53	0.85	NO	
L0001599	0	0.27610E-07	497019.3	3606386.4	40.8	0.00	1.53	0.85	NO	
L0001600	0	0.27610E-07	497016.0	3606386.5	40.8	0.00	1.53	0.85	NO	
L0001601	0	0.27610E-07	497012.8	3606386.5	40.8	0.00	1.53	0.85	NO	
L0001602	0	0.27610E-07	497009.5	3606386.5	40.8	0.00	1.53	0.85	NO	
L0001603	0	0.27610E-07	497006.2	3606386.6	40.8	0.00	1.53	0.85	NO	
L0001604	0	0.27610E-07	497002.9	3606386.6	40.8	0.00	1.53	0.85	NO	
L0001605	0	0.27610E-07	496999.6	3606386.6	40.7	0.00	1.53	0.85	NO	
L0001606	0	0.27610E-07	496996.4	3606386.7	40.7	0.00	1.53	0.85	NO	
L0001607	0	0.27610E-07	496993.1	3606386.7	40.7	0.00	1.53	0.85	NO	
L0001608	0	0.27610E-07	496989.8	3606386.7	40.7	0.00	1.53	0.85	NO	

L0001609	0	0.27610E-07	496986.5	3606386.8	40.7	0.00	1.53	0.85	NO
L0001610	0	0.27610E-07	496983.2	3606386.8	40.6	0.00	1.53	0.85	NO

*** AERMOD - VERSION 21112 ***
*** AERMET - VERSION 14134 ***

*** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
*** Shinohara DPM Concentrations - 1st 14 years ***

08/04/21
20:31:06
PAGE 9

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** 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	EMISSION RATE SCALAR VARY BY
L0001611	0	0.27610E-07	496980.0	3606386.9	40.6	0.00	1.53	0.85	NO	
L0001612	0	0.27610E-07	496976.7	3606386.9	40.6	0.00	1.53	0.85	NO	
L0001613	0	0.27610E-07	496973.4	3606386.9	40.6	0.00	1.53	0.85	NO	
L0001614	0	0.27610E-07	496970.1	3606387.0	40.5	0.00	1.53	0.85	NO	
L0001615	0	0.27610E-07	496966.8	3606387.0	40.5	0.00	1.53	0.85	NO	
L0001616	0	0.27610E-07	496963.6	3606387.0	40.5	0.00	1.53	0.85	NO	
L0001617	0	0.27610E-07	496960.3	3606387.1	40.4	0.00	1.53	0.85	NO	
L0001618	0	0.27610E-07	496957.0	3606387.1	40.4	0.00	1.53	0.85	NO	
L0001619	0	0.27610E-07	496953.7	3606387.1	40.4	0.00	1.53	0.85	NO	
L0001620	0	0.27610E-07	496950.4	3606387.2	40.4	0.00	1.53	0.85	NO	
L0001621	0	0.27610E-07	496947.2	3606387.2	40.4	0.00	1.53	0.85	NO	
L0001622	0	0.27610E-07	496943.9	3606387.3	40.3	0.00	1.53	0.85	NO	
L0001623	0	0.27610E-07	496940.6	3606387.3	40.3	0.00	1.53	0.85	NO	
L0001624	0	0.27610E-07	496937.3	3606387.3	40.3	0.00	1.53	0.85	NO	
L0001625	0	0.27610E-07	496934.0	3606387.4	40.4	0.00	1.53	0.85	NO	
L0001626	0	0.27610E-07	496930.8	3606387.4	40.6	0.00	1.53	0.85	NO	
L0001627	0	0.27610E-07	496927.5	3606387.4	40.7	0.00	1.53	0.85	NO	
L0001628	0	0.27610E-07	496924.2	3606387.5	40.8	0.00	1.53	0.85	NO	
L0001629	0	0.27610E-07	496920.9	3606387.5	41.0	0.00	1.53	0.85	NO	
L0001630	0	0.27610E-07	496917.6	3606387.5	41.1	0.00	1.53	0.85	NO	
L0001631	0	0.27610E-07	496914.4	3606387.6	41.3	0.00	1.53	0.85	NO	
L0001632	0	0.27610E-07	496911.1	3606387.6	41.4	0.00	1.53	0.85	NO	
L0001633	0	0.27610E-07	496907.8	3606387.7	41.5	0.00	1.53	0.85	NO	
L0001634	0	0.27610E-07	496904.5	3606387.7	41.5	0.00	1.53	0.85	NO	
L0001635	0	0.27610E-07	496901.3	3606387.7	41.6	0.00	1.53	0.85	NO	
L0001636	0	0.27610E-07	496898.0	3606387.8	41.6	0.00	1.53	0.85	NO	
L0001637	0	0.27610E-07	496894.7	3606387.8	41.7	0.00	1.53	0.85	NO	
L0001638	0	0.27610E-07	496891.4	3606387.8	41.8	0.00	1.53	0.85	NO	
L0001639	0	0.27610E-07	496888.1	3606387.9	41.8	0.00	1.53	0.85	NO	
L0001640	0	0.27610E-07	496884.9	3606387.9	41.9	0.00	1.53	0.85	NO	
L0001641	0	0.27610E-07	496881.6	3606387.9	41.9	0.00	1.53	0.85	NO	
L0001642	0	0.27610E-07	496878.3	3606388.0	41.9	0.00	1.53	0.85	NO	
L0001643	0	0.27610E-07	496875.0	3606388.0	42.0	0.00	1.53	0.85	NO	
L0001644	0	0.27610E-07	496871.7	3606388.0	42.0	0.00	1.53	0.85	NO	
L0001645	0	0.27610E-07	496868.5	3606388.1	42.1	0.00	1.53	0.85	NO	
L0001646	0	0.27610E-07	496865.2	3606388.1	42.1	0.00	1.53	0.85	NO	
L0001647	0	0.27610E-07	496861.9	3606388.2	42.2	0.00	1.53	0.85	NO	
L0001648	0	0.27610E-07	496858.6	3606388.2	42.2	0.00	1.53	0.85	NO	

L0001649	0	0.27610E-07	496855.3	3606388.2	42.3	0.00	1.53	0.85	NO
L0001650	0	0.27610E-07	496852.1	3606388.3	42.3	0.00	1.53	0.85	NO

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
 *** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1st 14 years ***

08/04/21
 20:31:06
 PAGE 10

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** 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	EMISSION RATE SCALAR VARY BY
L0001651	0	0.27610E-07	496848.8	3606388.3	42.3	0.00	1.53	0.85	NO	
L0001652	0	0.27610E-07	496845.5	3606388.3	42.4	0.00	1.53	0.85	NO	
L0001653	0	0.27610E-07	496842.2	3606388.4	42.4	0.00	1.53	0.85	NO	
L0001654	0	0.27610E-07	496838.9	3606388.4	42.5	0.00	1.53	0.85	NO	
L0001655	0	0.27610E-07	496835.7	3606388.4	42.5	0.00	1.53	0.85	NO	
L0001656	0	0.27610E-07	496832.4	3606388.5	42.6	0.00	1.53	0.85	NO	
L0001657	0	0.27610E-07	496829.1	3606388.5	42.6	0.00	1.53	0.85	NO	
L0001658	0	0.27610E-07	496825.8	3606388.6	42.6	0.00	1.53	0.85	NO	
L0001659	0	0.27610E-07	496822.5	3606388.6	42.7	0.00	1.53	0.85	NO	
L0001660	0	0.27610E-07	496819.3	3606388.6	42.7	0.00	1.53	0.85	NO	
L0001661	0	0.27610E-07	496816.0	3606388.7	42.8	0.00	1.53	0.85	NO	
L0001662	0	0.27610E-07	496812.7	3606388.7	42.8	0.00	1.53	0.85	NO	
L0001663	0	0.27610E-07	496809.4	3606388.7	42.9	0.00	1.53	0.85	NO	
L0001664	0	0.27610E-07	496806.1	3606388.8	42.9	0.00	1.53	0.85	NO	
L0001665	0	0.27610E-07	496802.9	3606388.8	42.9	0.00	1.53	0.85	NO	
L0001666	0	0.27610E-07	496799.6	3606388.8	43.0	0.00	1.53	0.85	NO	
L0001667	0	0.27610E-07	496796.3	3606388.9	43.0	0.00	1.53	0.85	NO	
L0001668	0	0.27610E-07	496793.0	3606388.9	43.0	0.00	1.53	0.85	NO	
L0001669	0	0.27610E-07	496789.7	3606389.0	43.1	0.00	1.53	0.85	NO	
L0001670	0	0.27610E-07	496786.5	3606389.0	43.1	0.00	1.53	0.85	NO	
L0001671	0	0.27610E-07	496783.2	3606389.0	43.1	0.00	1.53	0.85	NO	
L0001672	0	0.27610E-07	496779.9	3606389.1	43.1	0.00	1.53	0.85	NO	
L0001673	0	0.27610E-07	496776.6	3606389.1	43.1	0.00	1.53	0.85	NO	
L0001674	0	0.27610E-07	496773.3	3606389.1	43.0	0.00	1.53	0.85	NO	
L0001675	0	0.27610E-07	496770.1	3606389.2	42.9	0.00	1.53	0.85	NO	
L0001676	0	0.27610E-07	496766.8	3606389.2	42.8	0.00	1.53	0.85	NO	
L0001677	0	0.27610E-07	496763.5	3606389.2	42.8	0.00	1.53	0.85	NO	
L0001678	0	0.27610E-07	496760.2	3606389.3	42.7	0.00	1.53	0.85	NO	
L0001679	0	0.27610E-07	496756.9	3606389.3	42.6	0.00	1.53	0.85	NO	
L0001680	0	0.27610E-07	496753.7	3606389.3	42.6	0.00	1.53	0.85	NO	
L0001681	0	0.27610E-07	496750.4	3606389.4	42.5	0.00	1.53	0.85	NO	
L0001682	0	0.27610E-07	496747.1	3606389.4	42.4	0.00	1.53	0.85	NO	
L0001683	0	0.27610E-07	496743.8	3606389.5	42.3	0.00	1.53	0.85	NO	
L0001684	0	0.27610E-07	496740.5	3606389.5	42.3	0.00	1.53	0.85	NO	
L0001685	0	0.27610E-07	496737.3	3606389.5	42.2	0.00	1.53	0.85	NO	
L0001686	0	0.27610E-07	496734.0	3606389.6	42.1	0.00	1.53	0.85	NO	
L0001687	0	0.27610E-07	496730.7	3606389.6	42.0	0.00	1.53	0.85	NO	
L0001688	0	0.27610E-07	496727.4	3606389.6	41.9	0.00	1.53	0.85	NO	

L0001689	0	0.27610E-07	496724.1	3606389.7	41.8	0.00	1.53	0.85	NO
L0001690	0	0.27610E-07	496720.9	3606389.7	41.7	0.00	1.53	0.85	NO

*** AERMOD - VERSION 21112 ***
*** AERMET - VERSION 14134 ***

*** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
*** Shinohara DPM Concentrations - 1st 14 years ***

08/04/21
20:31:06
PAGE 11

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** 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	EMISSION RATE SCALAR VARY BY
L0001691	0	0.27610E-07	496717.6	3606389.7	41.6	0.00	1.53	0.85	NO	
L0001692	0	0.27610E-07	496714.3	3606389.8	41.4	0.00	1.53	0.85	NO	
L0001693	0	0.27610E-07	496711.0	3606389.8	41.3	0.00	1.53	0.85	NO	
L0001694	0	0.27610E-07	496707.7	3606389.9	41.2	0.00	1.53	0.85	NO	
L0001695	0	0.27610E-07	496704.5	3606389.9	41.0	0.00	1.53	0.85	NO	
L0001696	0	0.27610E-07	496701.2	3606389.9	40.9	0.00	1.53	0.85	NO	
L0001697	0	0.27610E-07	496697.9	3606390.0	40.7	0.00	1.53	0.85	NO	
L0001698	0	0.27610E-07	496694.6	3606390.0	40.6	0.00	1.53	0.85	NO	
L0001699	0	0.27610E-07	496691.3	3606390.0	40.4	0.00	1.53	0.85	NO	
L0001700	0	0.27610E-07	496688.1	3606390.1	40.3	0.00	1.53	0.85	NO	
L0001701	0	0.27610E-07	496684.8	3606390.1	40.1	0.00	1.53	0.85	NO	
L0001702	0	0.27610E-07	496681.5	3606390.1	39.9	0.00	1.53	0.85	NO	
L0001703	0	0.27610E-07	496678.2	3606390.2	39.8	0.00	1.53	0.85	NO	
L0001704	0	0.27610E-07	496674.9	3606390.2	39.7	0.00	1.53	0.85	NO	
L0001705	0	0.27610E-07	496671.7	3606390.3	39.6	0.00	1.53	0.85	NO	
L0001706	0	0.27610E-07	496668.4	3606390.3	39.5	0.00	1.53	0.85	NO	
L0001707	0	0.27610E-07	496665.1	3606390.3	39.4	0.00	1.53	0.85	NO	
L0001708	0	0.27610E-07	496661.8	3606390.4	39.4	0.00	1.53	0.85	NO	
L0001889	0	0.13860E-07	496660.7	3606394.4	39.3	0.00	1.53	0.85	NO	
L0001890	0	0.13860E-07	496660.4	3606397.6	39.3	0.00	1.53	0.85	NO	
L0001891	0	0.13860E-07	496660.1	3606400.9	39.3	0.00	1.53	0.85	NO	
L0001892	0	0.13860E-07	496659.8	3606404.2	39.3	0.00	1.53	0.85	NO	
L0001893	0	0.13860E-07	496659.5	3606407.4	39.3	0.00	1.53	0.85	NO	
L0001894	0	0.13860E-07	496659.2	3606410.7	39.5	0.00	1.53	0.85	NO	
L0001895	0	0.13860E-07	496659.0	3606414.0	39.7	0.00	1.53	0.85	NO	
L0001896	0	0.13860E-07	496658.7	3606417.2	39.8	0.00	1.53	0.85	NO	
L0001897	0	0.13860E-07	496658.4	3606420.5	40.0	0.00	1.53	0.85	NO	
L0001898	0	0.13860E-07	496658.1	3606423.8	40.1	0.00	1.53	0.85	NO	
L0001899	0	0.13860E-07	496657.8	3606427.0	40.2	0.00	1.53	0.85	NO	
L0001900	0	0.13860E-07	496657.5	3606430.3	40.3	0.00	1.53	0.85	NO	
L0001901	0	0.13860E-07	496657.2	3606433.6	40.4	0.00	1.53	0.85	NO	
L0001902	0	0.13860E-07	496657.0	3606436.8	40.5	0.00	1.53	0.85	NO	
L0001903	0	0.13860E-07	496656.7	3606440.1	40.7	0.00	1.53	0.85	NO	
L0001904	0	0.13860E-07	496656.4	3606443.4	40.8	0.00	1.53	0.85	NO	
L0001905	0	0.13860E-07	496656.1	3606446.7	40.9	0.00	1.53	0.85	NO	
L0001906	0	0.13860E-07	496655.8	3606449.9	41.0	0.00	1.53	0.85	NO	
L0001907	0	0.13860E-07	496655.5	3606453.2	41.1	0.00	1.53	0.85	NO	
L0001908	0	0.13860E-07	496655.2	3606456.4	41.2	0.00	1.53	0.85	NO	

L0001909	0	0.13860E-07	496654.9	3606459.7	41.3	0.00	1.53	0.85	NO
L0001910	0	0.13860E-07	496654.6	3606463.0	41.4	0.00	1.53	0.85	NO

*** AERMOD - VERSION 21112 ***
*** AERMET - VERSION 14134 ***

*** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
*** Shinohara DPM Concentrations - 1st 14 years ***

08/04/21
20:31:06
PAGE 12

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** 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	EMISSION RATE SCALAR VARY BY
L0001911	0	0.13860E-07	496654.3	3606466.2	41.5	0.00	1.53	0.85	NO	
L0001912	0	0.13860E-07	496654.0	3606469.5	41.6	0.00	1.53	0.85	NO	
L0001913	0	0.13860E-07	496653.7	3606472.8	41.7	0.00	1.53	0.85	NO	
L0001914	0	0.13860E-07	496653.4	3606476.0	41.8	0.00	1.53	0.85	NO	
L0001915	0	0.13860E-07	496653.1	3606479.3	41.9	0.00	1.53	0.85	NO	
L0001916	0	0.13860E-07	496652.8	3606482.6	42.0	0.00	1.53	0.85	NO	
L0001917	0	0.13860E-07	496652.5	3606485.8	42.0	0.00	1.53	0.85	NO	
L0001918	0	0.13860E-07	496652.2	3606489.1	42.1	0.00	1.53	0.85	NO	
L0001919	0	0.13860E-07	496651.9	3606492.4	42.2	0.00	1.53	0.85	NO	
L0001920	0	0.13860E-07	496651.6	3606495.6	42.3	0.00	1.53	0.85	NO	
L0001921	0	0.13860E-07	496651.3	3606498.9	42.4	0.00	1.53	0.85	NO	
L0001922	0	0.13860E-07	496651.0	3606502.2	42.6	0.00	1.53	0.85	NO	
L0001923	0	0.13860E-07	496650.6	3606505.4	42.8	0.00	1.53	0.85	NO	
L0001924	0	0.13860E-07	496650.3	3606508.7	43.0	0.00	1.53	0.85	NO	
L0001925	0	0.13860E-07	496650.0	3606512.0	43.4	0.00	1.53	0.85	NO	
L0001926	0	0.13860E-07	496649.7	3606515.2	43.8	0.00	1.53	0.85	NO	
L0001927	0	0.13860E-07	496649.4	3606518.5	44.1	0.00	1.53	0.85	NO	
L0001928	0	0.13860E-07	496649.1	3606521.8	44.4	0.00	1.53	0.85	NO	
L0001929	0	0.13860E-07	496648.8	3606525.0	44.8	0.00	1.53	0.85	NO	
L0001930	0	0.13860E-07	496648.5	3606528.3	45.1	0.00	1.53	0.85	NO	
L0001931	0	0.13860E-07	496648.2	3606531.6	45.4	0.00	1.53	0.85	NO	
L0001932	0	0.13860E-07	496647.9	3606534.8	45.6	0.00	1.53	0.85	NO	
L0001933	0	0.13860E-07	496647.6	3606538.1	45.9	0.00	1.53	0.85	NO	
L0001934	0	0.13860E-07	496647.3	3606541.4	46.1	0.00	1.53	0.85	NO	
L0001935	0	0.13860E-07	496647.0	3606544.6	46.4	0.00	1.53	0.85	NO	
L0001936	0	0.13860E-07	496646.7	3606547.9	46.6	0.00	1.53	0.85	NO	
L0001937	0	0.13860E-07	496646.4	3606551.2	46.8	0.00	1.53	0.85	NO	
L0001938	0	0.13860E-07	496646.1	3606554.4	47.1	0.00	1.53	0.85	NO	
L0001939	0	0.13860E-07	496645.8	3606557.7	47.3	0.00	1.53	0.85	NO	
L0001940	0	0.13860E-07	496645.5	3606561.0	47.6	0.00	1.53	0.85	NO	
L0001941	0	0.13860E-07	496645.2	3606564.2	48.0	0.00	1.53	0.85	NO	
L0001942	0	0.13860E-07	496644.9	3606567.5	48.3	0.00	1.53	0.85	NO	
L0001943	0	0.13860E-07	496644.6	3606570.8	48.7	0.00	1.53	0.85	NO	
L0001944	0	0.13860E-07	496644.3	3606574.0	49.1	0.00	1.53	0.85	NO	
L0001945	0	0.13860E-07	496644.0	3606577.3	49.5	0.00	1.53	0.85	NO	
L0001946	0	0.13860E-07	496643.7	3606580.6	49.8	0.00	1.53	0.85	NO	
L0001947	0	0.13860E-07	496643.4	3606583.8	50.2	0.00	1.53	0.85	NO	
L0001948	0	0.13860E-07	496643.1	3606587.1	50.5	0.00	1.53	0.85	NO	

L0001949	0	0.13860E-07	496642.8	3606590.4	50.8	0.00	1.53	0.85	NO
L0001950	0	0.13860E-07	496642.5	3606593.6	51.2	0.00	1.53	0.85	NO

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
 *** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1st 14 years ***

08/04/21
 20:31:06
 PAGE 13

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** 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	EMISSION RATE SCALAR VARY BY
L0001951	0	0.13860E-07	496642.2	3606596.9	51.5	0.00	1.53	0.85	NO	
L0001952	0	0.13860E-07	496641.9	3606600.2	51.9	0.00	1.53	0.85	NO	
L0001953	0	0.13860E-07	496641.5	3606603.4	52.2	0.00	1.53	0.85	NO	
L0001954	0	0.13860E-07	496641.2	3606606.7	52.6	0.00	1.53	0.85	NO	
L0001955	0	0.13860E-07	496640.9	3606609.9	52.9	0.00	1.53	0.85	NO	
L0001956	0	0.13860E-07	496640.6	3606613.2	53.2	0.00	1.53	0.85	NO	
L0001957	0	0.13860E-07	496640.3	3606616.5	53.5	0.00	1.53	0.85	NO	
L0001958	0	0.13860E-07	496640.0	3606619.7	53.8	0.00	1.53	0.85	NO	
L0001959	0	0.13860E-07	496639.7	3606623.0	54.0	0.00	1.53	0.85	NO	
L0001960	0	0.13860E-07	496639.4	3606626.3	54.3	0.00	1.53	0.85	NO	
L0001961	0	0.13860E-07	496639.1	3606629.5	54.5	0.00	1.53	0.85	NO	
L0001962	0	0.13860E-07	496638.8	3606632.8	54.7	0.00	1.53	0.85	NO	
L0001963	0	0.13860E-07	496638.5	3606636.1	54.9	0.00	1.53	0.85	NO	
L0001964	0	0.13860E-07	496638.2	3606639.3	55.1	0.00	1.53	0.85	NO	
L0001965	0	0.13860E-07	496637.9	3606642.6	55.3	0.00	1.53	0.85	NO	
L0001966	0	0.13860E-07	496637.6	3606645.9	55.5	0.00	1.53	0.85	NO	
L0001967	0	0.13860E-07	496637.3	3606649.1	55.7	0.00	1.53	0.85	NO	
L0001968	0	0.13860E-07	496637.0	3606652.4	55.9	0.00	1.53	0.85	NO	
L0001969	0	0.13860E-07	496636.7	3606655.7	56.0	0.00	1.53	0.85	NO	
L0001970	0	0.13860E-07	496636.4	3606658.9	56.1	0.00	1.53	0.85	NO	
L0001971	0	0.13860E-07	496636.1	3606662.2	56.3	0.00	1.53	0.85	NO	
L0001972	0	0.13840E-07	496655.9	3606389.7	39.2	0.00	1.53	0.85	NO	
L0001973	0	0.13840E-07	496652.6	3606389.6	39.2	0.00	1.53	0.85	NO	
L0001974	0	0.13840E-07	496649.3	3606389.5	39.2	0.00	1.53	0.85	NO	
L0001975	0	0.13840E-07	496646.1	3606389.4	39.5	0.00	1.53	0.85	NO	
L0001976	0	0.13840E-07	496642.8	3606389.3	39.8	0.00	1.53	0.85	NO	
L0001977	0	0.13840E-07	496639.5	3606389.1	40.1	0.00	1.53	0.85	NO	
L0001978	0	0.13840E-07	496636.2	3606389.0	40.5	0.00	1.53	0.85	NO	
L0001979	0	0.13840E-07	496633.0	3606388.9	40.8	0.00	1.53	0.85	NO	
L0001980	0	0.13840E-07	496629.7	3606388.8	41.0	0.00	1.53	0.85	NO	
L0001981	0	0.13840E-07	496626.4	3606388.7	41.3	0.00	1.53	0.85	NO	
L0001982	0	0.13840E-07	496623.1	3606388.5	41.5	0.00	1.53	0.85	NO	
L0001983	0	0.13840E-07	496619.8	3606388.4	41.7	0.00	1.53	0.85	NO	
L0001984	0	0.13840E-07	496616.6	3606388.3	41.8	0.00	1.53	0.85	NO	
L0001985	0	0.13840E-07	496613.3	3606388.2	41.9	0.00	1.53	0.85	NO	
L0001986	0	0.13840E-07	496610.0	3606388.1	42.0	0.00	1.53	0.85	NO	
L0001987	0	0.13840E-07	496606.7	3606387.9	42.1	0.00	1.53	0.85	NO	
L0001988	0	0.13840E-07	496603.5	3606387.8	42.2	0.00	1.53	0.85	NO	

L0001989	0	0.13840E-07	496600.2	3606387.7	42.3	0.00	1.53	0.85	NO
L0001990	0	0.13840E-07	496596.9	3606387.6	42.3	0.00	1.53	0.85	NO

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
 *** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1st 14 years ***

08/04/21
 20:31:06
 PAGE 14

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** 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	EMISSION RATE SCALAR VARY BY
L0001991	0	0.13840E-07	496593.6	3606387.5	42.3	0.00	1.53	0.85	NO	
L0001992	0	0.13840E-07	496590.3	3606387.4	42.2	0.00	1.53	0.85	NO	
L0001993	0	0.13840E-07	496587.1	3606387.2	42.2	0.00	1.53	0.85	NO	
L0001994	0	0.13840E-07	496583.8	3606387.1	42.1	0.00	1.53	0.85	NO	
L0001995	0	0.13840E-07	496580.5	3606387.0	42.1	0.00	1.53	0.85	NO	
L0001996	0	0.13840E-07	496577.2	3606386.9	42.0	0.00	1.53	0.85	NO	
L0001997	0	0.13840E-07	496574.0	3606386.8	42.0	0.00	1.53	0.85	NO	
L0001998	0	0.13840E-07	496570.7	3606386.6	41.8	0.00	1.53	0.85	NO	
L0001999	0	0.13840E-07	496567.4	3606386.5	41.4	0.00	1.53	0.85	NO	
L0002000	0	0.13840E-07	496564.1	3606386.4	41.0	0.00	1.53	0.85	NO	
L0002001	0	0.13840E-07	496560.8	3606386.3	40.7	0.00	1.53	0.85	NO	
L0002002	0	0.13840E-07	496557.6	3606386.2	40.3	0.00	1.53	0.85	NO	
L0002003	0	0.13840E-07	496554.3	3606386.1	39.9	0.00	1.53	0.85	NO	
L0002004	0	0.13840E-07	496551.0	3606385.9	39.6	0.00	1.53	0.85	NO	
L0002005	0	0.13840E-07	496547.7	3606385.8	39.3	0.00	1.53	0.85	NO	
L0002006	0	0.13840E-07	496544.5	3606385.7	39.1	0.00	1.53	0.85	NO	
L0002007	0	0.13840E-07	496541.2	3606385.6	39.3	0.00	1.53	0.85	NO	
L0002008	0	0.13840E-07	496537.9	3606385.5	39.4	0.00	1.53	0.85	NO	
L0002120	0	0.13870E-07	496537.3	3606381.2	39.3	0.00	1.53	0.85	NO	
L0002121	0	0.13870E-07	496537.7	3606377.9	39.2	0.00	1.53	0.85	NO	
L0002122	0	0.13870E-07	496538.1	3606374.7	39.2	0.00	1.53	0.85	NO	
L0002123	0	0.13870E-07	496538.5	3606371.4	39.1	0.00	1.53	0.85	NO	
L0002124	0	0.13870E-07	496538.9	3606368.2	39.0	0.00	1.53	0.85	NO	
L0002125	0	0.13870E-07	496539.3	3606364.9	38.9	0.00	1.53	0.85	NO	
L0002126	0	0.13870E-07	496539.7	3606361.6	38.8	0.00	1.53	0.85	NO	
L0002127	0	0.13870E-07	496540.1	3606358.4	38.8	0.00	1.53	0.85	NO	
L0002128	0	0.13870E-07	496540.5	3606355.1	38.7	0.00	1.53	0.85	NO	
L0002129	0	0.13870E-07	496540.9	3606351.9	38.6	0.00	1.53	0.85	NO	
L0002130	0	0.13870E-07	496541.3	3606348.6	38.5	0.00	1.53	0.85	NO	
L0002131	0	0.13870E-07	496541.7	3606345.4	38.5	0.00	1.53	0.85	NO	
L0002132	0	0.13870E-07	496542.1	3606342.1	38.5	0.00	1.53	0.85	NO	
L0002133	0	0.13870E-07	496542.5	3606338.9	38.5	0.00	1.53	0.85	NO	
L0002134	0	0.13870E-07	496542.9	3606335.6	38.5	0.00	1.53	0.85	NO	
L0002135	0	0.13870E-07	496543.3	3606332.4	38.5	0.00	1.53	0.85	NO	
L0002136	0	0.13870E-07	496543.7	3606329.1	38.5	0.00	1.53	0.85	NO	
L0002137	0	0.13870E-07	496544.1	3606325.8	38.5	0.00	1.53	0.85	NO	
L0002138	0	0.13870E-07	496544.5	3606322.6	38.6	0.00	1.53	0.85	NO	
L0002139	0	0.13870E-07	496544.9	3606319.3	38.6	0.00	1.53	0.85	NO	

L0002140	0	0.13870E-07	496545.3	3606316.1	38.6	0.00	1.53	0.85	NO
L0002141	0	0.13870E-07	496545.7	3606312.8	38.7	0.00	1.53	0.85	NO

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
 *** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1st 14 years ***

08/04/21
 20:31:06
 PAGE 15

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** 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	EMISSION RATE SCALAR VARY BY
L0002142	0	0.13870E-07	496546.1	3606309.6	38.8	0.00	1.53	0.85	NO	
L0002143	0	0.13870E-07	496546.5	3606306.3	38.9	0.00	1.53	0.85	NO	
L0002144	0	0.13870E-07	496546.9	3606303.1	39.0	0.00	1.53	0.85	NO	
L0002145	0	0.13870E-07	496547.3	3606299.8	39.2	0.00	1.53	0.85	NO	
L0002146	0	0.13870E-07	496547.7	3606296.5	39.3	0.00	1.53	0.85	NO	
L0002147	0	0.13870E-07	496548.1	3606293.3	39.4	0.00	1.53	0.85	NO	
L0002148	0	0.13870E-07	496548.5	3606290.0	39.5	0.00	1.53	0.85	NO	
L0002149	0	0.13870E-07	496548.9	3606286.8	39.6	0.00	1.53	0.85	NO	
L0002150	0	0.13870E-07	496549.3	3606283.5	39.8	0.00	1.53	0.85	NO	
L0002151	0	0.13870E-07	496549.7	3606280.3	39.9	0.00	1.53	0.85	NO	
L0002152	0	0.13870E-07	496550.1	3606277.0	40.0	0.00	1.53	0.85	NO	
L0002153	0	0.13870E-07	496550.5	3606273.8	40.1	0.00	1.53	0.85	NO	
L0002154	0	0.13870E-07	496550.9	3606270.5	40.2	0.00	1.53	0.85	NO	
L0002155	0	0.13870E-07	496551.3	3606267.2	40.3	0.00	1.53	0.85	NO	
L0002156	0	0.13870E-07	496551.7	3606264.0	40.4	0.00	1.53	0.85	NO	
L0002157	0	0.13870E-07	496552.1	3606260.7	40.5	0.00	1.53	0.85	NO	
L0002158	0	0.13870E-07	496552.5	3606257.5	40.6	0.00	1.53	0.85	NO	
L0002159	0	0.13870E-07	496552.9	3606254.2	40.6	0.00	1.53	0.85	NO	
L0002160	0	0.13870E-07	496553.3	3606251.0	40.7	0.00	1.53	0.85	NO	
L0002161	0	0.13870E-07	496553.7	3606247.7	40.6	0.00	1.53	0.85	NO	
L0002162	0	0.13870E-07	496554.1	3606244.5	40.5	0.00	1.53	0.85	NO	
L0002163	0	0.13870E-07	496554.5	3606241.2	40.4	0.00	1.53	0.85	NO	
L0002164	0	0.13870E-07	496554.9	3606237.9	40.3	0.00	1.53	0.85	NO	
L0002165	0	0.13870E-07	496555.3	3606234.7	40.3	0.00	1.53	0.85	NO	
L0002166	0	0.13870E-07	496555.7	3606231.4	40.2	0.00	1.53	0.85	NO	
L0002167	0	0.13870E-07	496556.1	3606228.2	40.1	0.00	1.53	0.85	NO	
L0002168	0	0.13870E-07	496556.5	3606224.9	40.0	0.00	1.53	0.85	NO	
L0002169	0	0.13870E-07	496556.9	3606221.7	40.0	0.00	1.53	0.85	NO	
L0002170	0	0.13870E-07	496557.3	3606218.4	39.9	0.00	1.53	0.85	NO	
L0002171	0	0.13870E-07	496557.7	3606215.2	39.8	0.00	1.53	0.85	NO	
L0002172	0	0.13870E-07	496558.1	3606211.9	39.8	0.00	1.53	0.85	NO	
L0002173	0	0.13870E-07	496558.5	3606208.6	39.7	0.00	1.53	0.85	NO	
L0002174	0	0.13870E-07	496558.9	3606205.4	39.6	0.00	1.53	0.85	NO	
L0002175	0	0.13870E-07	496559.3	3606202.1	39.5	0.00	1.53	0.85	NO	
L0002176	0	0.13870E-07	496559.7	3606198.9	39.5	0.00	1.53	0.85	NO	
L0002177	0	0.13870E-07	496560.1	3606195.6	39.4	0.00	1.53	0.85	NO	
L0002178	0	0.13870E-07	496560.5	3606192.4	39.4	0.00	1.53	0.85	NO	
L0002179	0	0.13870E-07	496560.9	3606189.1	39.3	0.00	1.53	0.85	NO	

L0002180	0	0.13870E-07	496561.3	3606185.9	39.3	0.00	1.53	0.85	NO
L0002181	0	0.13870E-07	496561.7	3606182.6	39.2	0.00	1.53	0.85	NO

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
 *** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1st 14 years ***

08/04/21
 20:31:06
 PAGE 16

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** 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	EMISSION RATE SCALAR VARY BY
L0002182	0	0.13870E-07	496562.1	3606179.3	39.2	0.00	1.53	0.85	NO	
L0002183	0	0.13870E-07	496562.5	3606176.1	39.1	0.00	1.53	0.85	NO	
L0002184	0	0.13870E-07	496562.9	3606172.8	39.1	0.00	1.53	0.85	NO	
L0002185	0	0.13870E-07	496563.3	3606169.6	39.0	0.00	1.53	0.85	NO	
L0002186	0	0.13870E-07	496563.7	3606166.3	39.0	0.00	1.53	0.85	NO	
L0002187	0	0.13870E-07	496564.1	3606163.1	39.0	0.00	1.53	0.85	NO	
L0002188	0	0.13870E-07	496564.5	3606159.8	39.0	0.00	1.53	0.85	NO	
L0002189	0	0.13870E-07	496564.9	3606156.6	39.0	0.00	1.53	0.85	NO	
L0002190	0	0.13870E-07	496565.3	3606153.3	39.0	0.00	1.53	0.85	NO	
L0002191	0	0.13870E-07	496565.7	3606150.0	39.0	0.00	1.53	0.85	NO	
L0002192	0	0.13870E-07	496566.1	3606146.8	39.0	0.00	1.53	0.85	NO	
L0002193	0	0.13870E-07	496566.5	3606143.5	39.0	0.00	1.53	0.85	NO	
L0002194	0	0.13870E-07	496566.9	3606140.3	39.0	0.00	1.53	0.85	NO	

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
*** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1st 14 years ***

08/04/21
20:31:06
PAGE 17

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs								
-----	-----	-----	-----	-----	-----	-----	-----	-----	
ALL	L0001371	, L0001372	, L0001373	, L0001374	, L0001375	, L0001376	, L0001377	, L0001378	,
	L0001379	, L0001380	, L0001381	, L0001382	, L0001383	, L0001384	, L0001385	, L0001386	,
	L0001387	, L0001388	, L0001389	, L0001390	, L0001391	, L0001392	, L0001393	, L0001394	,
	L0001395	, L0001396	, L0001397	, L0001398	, L0001399	, L0001400	, L0001401	, L0001402	,
	L0001403	, L0001404	, L0001405	, L0001406	, L0001407	, L0001408	, L0001409	, L0001410	,
	L0001411	, L0001412	, L0001413	, L0001414	, L0001415	, L0001416	, L0001417	, L0001418	,
	L0001419	, L0001420	, L0001421	, L0001422	, L0001423	, L0001424	, L0001425	, L0001426	,
	L0001427	, L0001428	, L0001429	, L0001430	, L0001431	, L0001432	, L0001433	, L0001434	,
	L0001435	, L0001436	, L0001437	, L0001438	, L0001439	, L0001440	, L0001441	, L0001442	,
	L0001443	, L0001444	, L0001445	, L0001446	, L0001447	, L0001448	, L0001449	, L0001450	,
	L0001451	, L0001452	, L0001453	, L0001454	, L0001455	, L0001456	, L0001457	, L0001458	,
	L0001459	, L0001460	, L0001461	, L0001462	, L0001463	, L0001464	, L0001465	, L0001466	,
	L0001467	, L0001468	, L0001469	, L0001470	, L0001471	, L0001472	, L0001473	, L0001474	,
	L0001475	, L0001476	, L0001477	, L0001478	, L0001479	, L0001480	, L0001481	, L0001482	,
	L0001483	, L0001484	, L0001485	, L0001486	, L0001487	, L0001488	, L0001489	, L0001490	,
	L0001491	, L0001492	, L0001493	, L0001494	, L0001495	, L0001496	, L0001497	, L0001498	,
	L0001499	, L0001500	, L0001501	, L0001502	, L0001503	, L0001504	, L0001505	, L0001506	,
	L0001507	, L0001508	, L0001509	, L0001510	, L0001511	, L0001512	, L0001513	, L0001514	,
	L0001515	, L0001516	, L0001517	, L0001518	, L0001519	, L0001520	, L0001521	, L0001522	,
	L0001523	, L0001524	, L0001525	, L0001526	, L0001527	, L0001528	, L0001529	, L0001530	,

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
*** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1st 14 years ***

08/04/21
20:31:06
PAGE 18

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID

SOURCE IDs

L0001531	,	L0001532	,	L0001533	,	L0001534	,	L0001535	,	L0001536	,	L0001537	,	L0001538	,
L0001539	,	L0001540	,	L0001541	,	L0001542	,	L0001543	,	L0001544	,	L0001545	,	L0001546	,
L0001547	,	L0001548	,	L0001549	,	L0001550	,	L0001551	,	L0001552	,	L0001553	,	L0001554	,
L0001555	,	L0001556	,	L0001557	,	L0001558	,	L0001559	,	L0001560	,	L0001561	,	L0001562	,
L0001563	,	L0001564	,	L0001565	,	L0001566	,	L0001567	,	L0001568	,	L0001569	,	L0001570	,
L0001571	,	L0001572	,	L0001573	,	L0001574	,	L0001575	,	L0001576	,	L0001577	,	L0001578	,
L0001579	,	L0001580	,	L0001581	,	L0001582	,	L0001583	,	L0001584	,	L0001585	,	L0001586	,
L0001587	,	L0001588	,	L0001589	,	L0001590	,	L0001591	,	L0001592	,	L0001593	,	L0001594	,
L0001595	,	L0001596	,	L0001597	,	L0001598	,	L0001599	,	L0001600	,	L0001601	,	L0001602	,
L0001603	,	L0001604	,	L0001605	,	L0001606	,	L0001607	,	L0001608	,	L0001609	,	L0001610	,
L0001611	,	L0001612	,	L0001613	,	L0001614	,	L0001615	,	L0001616	,	L0001617	,	L0001618	,
L0001619	,	L0001620	,	L0001621	,	L0001622	,	L0001623	,	L0001624	,	L0001625	,	L0001626	,
L0001627	,	L0001628	,	L0001629	,	L0001630	,	L0001631	,	L0001632	,	L0001633	,	L0001634	,
L0001635	,	L0001636	,	L0001637	,	L0001638	,	L0001639	,	L0001640	,	L0001641	,	L0001642	,
L0001643	,	L0001644	,	L0001645	,	L0001646	,	L0001647	,	L0001648	,	L0001649	,	L0001650	,
L0001651	,	L0001652	,	L0001653	,	L0001654	,	L0001655	,	L0001656	,	L0001657	,	L0001658	,
L0001659	,	L0001660	,	L0001661	,	L0001662	,	L0001663	,	L0001664	,	L0001665	,	L0001666	,
L0001667	,	L0001668	,	L0001669	,	L0001670	,	L0001671	,	L0001672	,	L0001673	,	L0001674	,
L0001675	,	L0001676	,	L0001677	,	L0001678	,	L0001679	,	L0001680	,	L0001681	,	L0001682	,
L0001683	,	L0001684	,	L0001685	,	L0001686	,	L0001687	,	L0001688	,	L0001689	,	L0001690	,

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
*** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1st 14 years ***

08/04/21
20:31:06
PAGE 19

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs														
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L0001691	,	L0001692	,	L0001693	,	L0001694	,	L0001695	,	L0001696	,	L0001697	,	L0001698	,
L0001699	,	L0001700	,	L0001701	,	L0001702	,	L0001703	,	L0001704	,	L0001705	,	L0001706	,
L0001707	,	L0001708	,	STCK1	,	STCK2	,	STCK3	,	STCK4	,	L0001889	,	L0001890	,
L0001891	,	L0001892	,	L0001893	,	L0001894	,	L0001895	,	L0001896	,	L0001897	,	L0001898	,
L0001899	,	L0001900	,	L0001901	,	L0001902	,	L0001903	,	L0001904	,	L0001905	,	L0001906	,
L0001907	,	L0001908	,	L0001909	,	L0001910	,	L0001911	,	L0001912	,	L0001913	,	L0001914	,
L0001915	,	L0001916	,	L0001917	,	L0001918	,	L0001919	,	L0001920	,	L0001921	,	L0001922	,
L0001923	,	L0001924	,	L0001925	,	L0001926	,	L0001927	,	L0001928	,	L0001929	,	L0001930	,
L0001931	,	L0001932	,	L0001933	,	L0001934	,	L0001935	,	L0001936	,	L0001937	,	L0001938	,
L0001939	,	L0001940	,	L0001941	,	L0001942	,	L0001943	,	L0001944	,	L0001945	,	L0001946	,
L0001947	,	L0001948	,	L0001949	,	L0001950	,	L0001951	,	L0001952	,	L0001953	,	L0001954	,
L0001955	,	L0001956	,	L0001957	,	L0001958	,	L0001959	,	L0001960	,	L0001961	,	L0001962	,
L0001963	,	L0001964	,	L0001965	,	L0001966	,	L0001967	,	L0001968	,	L0001969	,	L0001970	,
L0001971	,	L0001972	,	L0001973	,	L0001974	,	L0001975	,	L0001976	,	L0001977	,	L0001978	,
L0001979	,	L0001980	,	L0001981	,	L0001982	,	L0001983	,	L0001984	,	L0001985	,	L0001986	,
L0001987	,	L0001988	,	L0001989	,	L0001990	,	L0001991	,	L0001992	,	L0001993	,	L0001994	,
L0001995	,	L0001996	,	L0001997	,	L0001998	,	L0001999	,	L0002000	,	L0002001	,	L0002002	,
L0002003	,	L0002004	,	L0002005	,	L0002006	,	L0002007	,	L0002008	,	L0002120	,	L0002121	,
L0002122	,	L0002123	,	L0002124	,	L0002125	,	L0002126	,	L0002127	,	L0002128	,	L0002129	,
L0002130	,	L0002131	,	L0002132	,	L0002133	,	L0002134	,	L0002135	,	L0002136	,	L0002137	,

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
*** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1st 14 years ***

08/04/21
20:31:06
PAGE 21

*** MODELOPTs: RegDFault CONC ELEV RURAL

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK1

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	12.2,	134.6,	202.5,	-61.0,	49.4,	2	12.2,	161.1,	211.6,	-75.1,	56.1,
3	12.2,	183.0,	214.4,	-86.9,	61.0,	4	12.2,	199.4,	210.7,	-96.0,	64.0,
5	12.2,	209.6,	201.1,	-102.2,	65.0,	6	12.2,	213.8,	185.4,	-105.4,	64.0,
7	12.2,	211.8,	164.2,	-105.3,	60.8,	8	12.2,	203.3,	138.5,	-102.0,	55.8,
9	12.2,	188.7,	108.5,	-95.6,	49.1,	10	12.2,	202.5,	134.6,	-116.8,	40.2,
11	12.2,	211.6,	161.1,	-136.7,	30.7,	12	12.2,	214.4,	183.0,	-152.5,	20.3,
13	12.2,	210.7,	199.4,	-163.6,	9.3,	14	12.2,	201.1,	209.6,	-169.8,	-1.7,
15	12.2,	185.4,	213.8,	-170.9,	-12.7,	16	12.2,	164.2,	211.8,	-166.7,	-23.2,
17	12.2,	138.5,	203.3,	-157.5,	-32.8,	18	12.2,	108.5,	188.7,	-143.4,	-41.4,
19	12.2,	134.6,	202.5,	-141.4,	-49.4,	20	12.2,	161.1,	211.6,	-136.5,	-56.1,
21	12.2,	183.0,	214.4,	-127.5,	-61.0,	22	12.2,	199.4,	210.7,	-114.7,	-64.0,
23	12.2,	209.6,	201.1,	-98.8,	-65.0,	24	12.2,	213.8,	185.4,	-80.0,	-64.0,
25	12.2,	211.8,	164.2,	-59.0,	-60.8,	26	12.2,	203.3,	138.5,	-36.5,	-55.8,
27	12.2,	188.7,	108.5,	-12.8,	-49.1,	28	12.2,	202.5,	134.6,	-17.9,	-40.2,
29	12.2,	211.6,	161.1,	-24.4,	-30.7,	30	12.2,	214.4,	183.0,	-30.5,	-20.3,
31	12.2,	210.7,	199.4,	-35.7,	-9.3,	32	12.2,	201.1,	209.6,	-39.8,	1.7,
33	12.2,	185.4,	213.8,	-42.9,	12.7,	34	12.2,	164.2,	211.8,	-45.1,	23.2,
35	12.2,	138.5,	203.3,	-45.9,	32.8,	36	12.2,	108.5,	188.7,	-45.3,	41.4,

SOURCE ID: STCK2

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	12.2,	134.6,	202.5,	-91.8,	43.1,	2	12.2,	161.1,	211.6,	-104.2,	44.6,
3	12.2,	183.0,	214.4,	-113.6,	44.5,	4	12.2,	199.4,	210.7,	-119.5,	43.1,
5	12.2,	209.6,	201.1,	-121.7,	40.4,	6	12.2,	213.8,	185.4,	-120.3,	36.4,
7	12.2,	211.8,	164.2,	-115.2,	31.0,	8	12.2,	203.3,	138.5,	-106.6,	24.8,
9	12.2,	188.7,	108.5,	-94.7,	17.7,	10	12.2,	202.5,	134.6,	-110.4,	9.5,
11	12.2,	211.6,	161.1,	-125.1,	1.6,	12	12.2,	214.4,	183.0,	-136.0,	-6.4,
13	12.2,	210.7,	199.4,	-142.8,	-14.1,	14	12.2,	201.1,	209.6,	-145.2,	-21.2,
15	12.2,	185.4,	213.8,	-143.2,	-27.6,	16	12.2,	164.2,	211.8,	-136.9,	-33.0,
17	12.2,	138.5,	203.3,	-126.4,	-37.3,	18	12.2,	108.5,	188.7,	-112.1,	-40.5,
19	12.2,	134.6,	202.5,	-110.7,	-43.1,	20	12.2,	161.1,	211.6,	-107.4,	-44.6,
21	12.2,	183.0,	214.4,	-100.8,	-44.5,	22	12.2,	199.4,	210.7,	-91.2,	-43.1,
23	12.2,	209.6,	201.1,	-79.4,	-40.4,	24	12.2,	213.8,	185.4,	-65.1,	-36.4,
25	12.2,	211.8,	164.2,	-49.1,	-31.0,	26	12.2,	203.3,	138.5,	-31.9,	-24.8,
27	12.2,	188.7,	108.5,	-13.7,	-17.7,	28	12.2,	202.5,	134.6,	-24.2,	-9.5,
29	12.2,	211.6,	161.1,	-36.0,	-1.6,	30	12.2,	214.4,	183.0,	-47.0,	6.4,
31	12.2,	210.7,	199.4,	-56.5,	14.1,	32	12.2,	201.1,	209.6,	-64.4,	21.2,
33	12.2,	185.4,	213.8,	-70.5,	27.6,	34	12.2,	164.2,	211.8,	-74.8,	33.0,
35	12.2,	138.5,	203.3,	-76.9,	37.3,	36	12.2,	108.5,	188.7,	-76.6,	40.5,

SOURCE ID: STCK3

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	12.2,	134.6,	202.5,	-122.3,	38.4,	2	12.2,	161.1,	211.6,	-133.5,	34.6,
3	12.2,	183.0,	214.4,	-140.7,	29.7,	4	12.2,	199.4,	210.7,	-143.6,	23.8,
5	12.2,	209.6,	201.1,	-142.1,	17.2,	6	12.2,	213.8,	185.4,	-136.3,	9.9,
7	12.2,	211.8,	164.2,	-126.4,	2.2,	8	12.2,	203.3,	138.5,	-112.6,	-5.6,
9	12.2,	188.7,	108.5,	-95.4,	-13.2,	10	12.2,	202.5,	134.6,	-105.7,	-21.1,
11	12.2,	211.6,	161.1,	-115.2,	-27.7,	12	12.2,	214.4,	183.0,	-121.2,	-33.5,
13	12.2,	210.7,	199.4,	-123.5,	-38.2,	14	12.2,	201.1,	209.6,	-122.0,	-41.6,
15	12.2,	185.4,	213.8,	-116.8,	-43.6,	16	12.2,	164.2,	211.8,	-108.1,	-44.2,
17	12.2,	138.5,	203.3,	-96.1,	-43.4,	18	12.2,	108.5,	188.7,	-81.2,	-41.2,
19	12.2,	134.6,	202.5,	-80.2,	-38.4,	20	12.2,	161.1,	211.6,	-78.1,	-34.6,
21	12.2,	183.0,	214.4,	-73.7,	-29.7,	22	12.2,	199.4,	210.7,	-67.1,	-23.8,
23	12.2,	209.6,	201.1,	-59.0,	-17.2,	24	12.2,	213.8,	185.4,	-49.1,	-9.9,
25	12.2,	211.8,	164.2,	-37.9,	-2.2,	26	12.2,	203.3,	138.5,	-25.9,	5.6,
27	12.2,	188.7,	108.5,	-13.1,	13.2,	28	12.2,	202.5,	134.6,	-28.9,	21.1,
29	12.2,	211.6,	161.1,	-45.9,	27.7,	30	12.2,	214.4,	183.0,	-61.9,	33.5,
31	12.2,	210.7,	199.4,	-75.9,	38.2,	32	12.2,	201.1,	209.6,	-87.6,	41.6,
33	12.2,	185.4,	213.8,	-96.9,	43.6,	34	12.2,	164.2,	211.8,	-103.7,	44.2,
35	12.2,	138.5,	203.3,	-107.2,	43.4,	36	12.2,	108.5,	188.7,	-107.6,	41.2,

SOURCE ID: STCK4

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	12.2,	134.6,	202.5,	-161.6,	31.7,	2	12.2,	161.1,	211.6,	-171.0,	21.2,
3	12.2,	183.0,	214.4,	-175.3,	9.9,	4	12.2,	199.4,	210.7,	-174.2,	-1.7,
5	12.2,	209.6,	201.1,	-167.9,	-13.2,	6	12.2,	213.8,	185.4,	-156.4,	-24.4,
7	12.2,	211.8,	164.2,	-140.2,	-35.1,	8	12.2,	203.3,	138.5,	-119.7,	-44.8,
9	12.2,	188.7,	108.5,	-95.6,	-53.0,	10	12.2,	202.5,	134.6,	-99.0,	-60.3,
11	12.2,	211.6,	161.1,	-101.8,	-65.2,	12	12.2,	214.4,	183.0,	-101.5,	-68.1,
13	12.2,	210.7,	199.4,	-98.0,	-68.9,	14	12.2,	201.1,	209.6,	-91.6,	-67.3,
15	12.2,	185.4,	213.8,	-82.5,	-63.7,	16	12.2,	164.2,	211.8,	-70.8,	-58.1,
17	12.2,	138.5,	203.3,	-56.9,	-50.5,	18	12.2,	108.5,	188.7,	-41.3,	-41.4,
19	12.2,	134.6,	202.5,	-40.9,	-31.7,	20	12.2,	161.1,	211.6,	-40.6,	-21.2,
21	12.2,	183.0,	214.4,	-39.1,	-9.9,	22	12.2,	199.4,	210.7,	-36.5,	1.7,
23	12.2,	209.6,	201.1,	-33.2,	13.2,	24	12.2,	213.8,	185.4,	-29.0,	24.4,
25	12.2,	211.8,	164.2,	-24.1,	35.1,	26	12.2,	203.3,	138.5,	-18.7,	44.8,
27	12.2,	188.7,	108.5,	-12.8,	53.0,	28	12.2,	202.5,	134.6,	-35.6,	60.3,
29	12.2,	211.6,	161.1,	-59.3,	65.2,	30	12.2,	214.4,	183.0,	-81.6,	68.1,
31	12.2,	210.7,	199.4,	-101.3,	68.9,	32	12.2,	201.1,	209.6,	-118.0,	67.3,
33	12.2,	185.4,	213.8,	-131.3,	63.7,	34	12.2,	164.2,	211.8,	-141.0,	58.1,
35	12.2,	138.5,	203.3,	-146.4,	50.5,	36	12.2,	108.5,	188.7,	-147.4,	41.4,

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
*** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1st 14 years ***

08/04/21
20:31:06
PAGE 22

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

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

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

496437.3, 496496.9, 496556.5, 496616.1, 496675.8, 496735.3, 496794.9, 496854.5, 496914.1, 496973.8,
497033.3, 497092.9, 497152.5, 497212.1, 497271.8, 497331.3, 497390.9, 497450.5, 497510.1, 497569.8,
497629.3,

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

3606072.0, 3606131.2, 3606190.3, 3606249.4, 3606308.6, 3606367.7, 3606426.8, 3606486.0, 3606545.1, 3606604.2,
3606663.3, 3606722.5, 3606781.6, 3606840.7, 3606899.9, 3606959.0, 3607018.1, 3607077.2, 3607136.4, 3607195.5,
3607254.6,

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
 *** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1st 14 years ***

08/04/21
 20:31:06
 PAGE 23

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	496437.35	496496.95	496556.55	496616.15	496675.75	496735.35	496794.95	496854.55	496914.15
3607254.64	73.10	71.10	68.00	67.00	61.50	61.40	54.30	57.70	59.70
3607195.51	72.10	68.40	66.60	66.10	59.60	54.00	56.50	57.80	58.60
3607136.38	72.40	66.00	65.40	64.20	56.60	53.00	55.70	59.00	59.60
3607077.25	72.60	62.20	62.60	62.90	48.40	54.40	58.20	59.70	61.50
3607018.12	59.50	56.80	59.50	61.20	53.60	53.70	60.30	63.90	68.00
3606958.99	54.40	52.60	57.00	60.00	54.80	55.60	62.40	65.10	68.60
3606899.86	46.70	50.20	55.80	58.70	58.30	58.20	65.70	68.50	72.40
3606840.73	48.90	49.90	55.10	57.20	63.80	62.90	63.90	68.30	69.20
3606781.60	48.20	52.80	54.50	56.50	64.70	66.80	63.70	64.40	65.60
3606722.47	50.90	52.50	55.10	54.30	66.20	66.80	65.00	61.30	60.70
3606663.34	54.50	57.10	55.00	52.60	64.70	64.00	66.30	60.80	57.90
3606604.21	56.30	58.80	51.40	50.40	60.50	59.70	61.60	62.50	54.60
3606545.08	58.30	59.00	47.30	48.80	56.10	53.90	57.80	58.20	50.60
3606485.95	54.50	56.20	44.40	47.20	51.00	49.40	48.20	47.40	45.60
3606426.82	53.30	50.30	42.30	45.70	43.20	46.40	45.10	43.70	42.60
3606367.69	39.50	38.70	39.70	40.40	39.00	40.20	40.50	40.70	39.80
3606308.56	38.20	37.00	41.00	42.70	37.10	39.80	38.10	38.10	37.80
3606249.43	37.10	36.70	41.00	41.70	35.70	36.10	36.30	35.90	35.70
3606190.30	34.70	35.00	38.50	41.10	35.00	34.70	34.60	34.20	33.90
3606131.17	34.00	34.10	36.10	40.10	34.10	34.10	33.50	33.60	33.30
3606072.04	33.40	33.60	34.50	38.40	33.70	33.70	34.00	29.30	27.80

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
*** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1st 14 years ***

08/04/21
20:31:06
PAGE 25

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	497510.15	497569.75	497629.35
3607254.64	102.70	107.40	104.40
3607195.51	92.20	95.00	98.50
3607136.38	95.90	97.40	100.30
3607077.25	100.10	101.10	103.90
3607018.12	98.70	102.50	103.70
3606958.99	90.30	101.40	103.10
3606899.86	79.10	92.10	93.50
3606840.73	90.10	90.90	90.20
3606781.60	74.50	72.40	71.20
3606722.47	66.70	62.80	62.50
3606663.34	65.40	56.40	57.40
3606604.21	51.20	53.90	58.40
3606545.08	44.40	45.00	46.00
3606485.95	43.10	43.10	43.30
3606426.82	42.50	42.40	42.90
3606367.69	40.60	40.90	41.30
3606308.56	39.70	39.90	40.60
3606249.43	40.20	40.00	39.90
3606190.30	29.90	29.60	29.80
3606131.17	29.10	30.90	30.60
3606072.04	29.10	30.50	30.00

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
 *** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1st 14 years ***

08/04/21
 20:31:06
 PAGE 26

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	496437.35	496496.95	496556.55	496616.15	496675.75	496735.35	496794.95	496854.55	496914.15
3607254.64	73.10	71.10	76.50	67.00	76.00	76.00	80.50	80.50	130.10
3607195.51	72.10	68.40	66.60	66.10	66.50	76.00	81.70	81.70	81.90
3607136.38	72.40	72.70	65.40	64.20	66.50	81.70	81.90	81.90	82.20
3607077.25	72.60	72.90	62.60	62.90	81.90	81.90	81.90	81.90	82.20
3607018.12	73.00	72.90	72.90	61.20	63.00	81.90	81.90	81.90	81.90
3606958.99	73.00	72.90	72.00	60.00	58.90	81.90	72.40	81.90	81.90
3606899.86	73.00	72.90	59.20	58.70	58.30	71.70	65.70	72.10	72.40
3606840.73	72.90	72.90	64.80	65.20	64.50	62.90	63.90	68.30	73.20
3606781.60	48.20	52.80	66.20	66.70	64.70	66.80	67.90	64.40	77.50
3606722.47	50.90	59.00	66.20	67.40	66.20	66.80	66.70	61.30	78.30
3606663.34	56.30	58.80	66.20	67.50	64.70	64.00	66.30	66.50	78.00
3606604.21	56.30	58.80	66.20	66.50	62.30	65.70	65.50	62.50	66.50
3606545.08	58.30	59.00	66.10	66.20	57.70	66.10	62.00	62.50	66.50
3606485.95	54.50	59.20	59.30	62.30	52.50	65.70	66.50	66.50	66.50
3606426.82	53.30	59.20	59.30	45.70	65.70	46.40	65.70	65.70	62.50
3606367.69	59.30	59.30	59.30	59.20	65.70	65.70	62.50	62.50	62.50
3606308.56	59.20	59.30	45.20	44.70	37.10	39.80	38.10	38.10	37.80
3606249.43	37.10	36.70	43.00	41.70	41.00	36.10	36.30	35.90	35.70
3606190.30	34.70	35.00	42.30	41.10	40.80	34.70	34.60	34.20	33.90
3606131.17	34.00	34.10	40.80	40.10	40.50	34.10	33.50	33.60	33.30
3606072.04	33.40	33.60	39.70	38.40	33.70	33.70	34.00	33.50	33.40

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
*** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1st 14 years ***

08/04/21
20:31:06
PAGE 28

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	497510.15	497569.75	497629.35
3607254.64	129.00	128.70	139.00
3607195.51	139.00	139.00	139.00
3607136.38	128.70	128.00	139.00
3607077.25	100.10	103.70	107.80
3607018.12	98.70	102.50	103.70
3606958.99	104.30	101.40	103.10
3606899.86	125.50	104.30	125.50
3606840.73	90.60	90.90	125.50
3606781.60	125.50	125.90	128.30
3606722.47	125.50	128.30	139.00
3606663.34	125.50	132.20	136.70
3606604.21	128.30	128.30	128.30
3606545.08	128.30	132.20	136.70
3606485.95	128.30	128.30	128.30
3606426.82	126.40	128.30	128.30
3606367.69	125.50	126.40	128.20
3606308.56	125.50	125.50	125.50
3606249.43	40.20	40.00	39.90
3606190.30	125.50	125.50	125.50
3606131.17	39.40	30.90	30.60
3606072.04	29.10	30.50	30.00

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
*** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1st 14 years ***

08/04/21
20:31:06
PAGE 30

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

SOURCE ID	- - RECEPTOR LOCATION - -		DISTANCE
	XR (METERS)	YR (METERS)	(METERS)
L0002160	496556.5	3606249.4	0.28
L0002161	496556.5	3606249.4	0.02

*** AERMOD - VERSION 21112 *** ** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
*** AERMET - VERSION 14134 *** ** Shinohara DPM Concentrations - 1st 14 years **

08/04/21
20:31:06
PAGE 38

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

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

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

A Total of 0 Fatal Error Message(s)
A Total of 6 Warning Message(s)
A Total of 16961 Informational Message(s)

A Total of 43872 Hours Were Processed

A Total of 13845 Calm Hours Identified

A Total of 3116 Missing Hours Identified (7.10 Percent)

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

***** WARNING MESSAGES *****
SO W320 1041 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 1042 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 1043 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 1044 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
MX W430 33748 METQA: Ambient Temperature Data Out-of-Range. KURDAT = 12110704
MX W430 33749 METQA: Ambient Temperature Data Out-of-Range. KURDAT = 12110705

*** AERMOD Finishes Successfully ***

```

**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 10.0.1
** Lakes Environmental Software Inc.
** Date: 8/4/2021
** File: C:\Lakes\AERMOD View\Shinohara HRA - 2nd 14 yrs\Shinohara HRA - 2nd 14 yrs.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i
  TITLETWO Shinohara DPM Concentrations - 1st 14 years
  MODELOPT CONC FLAT ELEV
  AVERTIME PERIOD
  POLLUTID DPM
  RUNORNOT RUN
  ERRORFIL "Shinohara HRA - 2nd 14 yrs.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 On-Site - Project Driveway to Loading Area
** PREFIX
** Length of Side = 3.28
** Configuration = Adjacent
** Emission Rate = 1.98E-06
** Elevated
** Vertical Dimension = 3.66
** SZINIT = 0.85
** Nodes = 5
** 497125.107, 3606563.656, 46.25, 0.00, 1.53
** 497116.635, 3606572.599, 46.24, 0.00, 1.53
** 497111.457, 3606587.191, 48.45, 0.00, 1.53
** 497113.340, 3606656.851, 53.51, 0.00, 1.53

```

** 497113.261, 3606777.752, 72.42, 0.00, 1.53

** -----

LOCATION	L0002195	VOLUME	497123.979	3606564.847	46.90
LOCATION	L0002196	VOLUME	497121.724	3606567.228	46.81
LOCATION	L0002197	VOLUME	497119.468	3606569.609	46.72
LOCATION	L0002198	VOLUME	497117.212	3606571.990	46.93
LOCATION	L0002199	VOLUME	497115.819	3606574.900	47.17
LOCATION	L0002200	VOLUME	497114.722	3606577.991	47.42
LOCATION	L0002201	VOLUME	497113.625	3606581.082	47.66
LOCATION	L0002202	VOLUME	497112.528	3606584.173	47.91
LOCATION	L0002203	VOLUME	497111.460	3606587.269	48.15
LOCATION	L0002204	VOLUME	497111.548	3606590.548	48.39
LOCATION	L0002205	VOLUME	497111.637	3606593.827	48.67
LOCATION	L0002206	VOLUME	497111.725	3606597.105	48.95
LOCATION	L0002207	VOLUME	497111.814	3606600.384	49.24
LOCATION	L0002208	VOLUME	497111.903	3606603.663	49.52
LOCATION	L0002209	VOLUME	497111.991	3606606.942	49.80
LOCATION	L0002210	VOLUME	497112.080	3606610.221	50.08
LOCATION	L0002211	VOLUME	497112.169	3606613.499	50.36
LOCATION	L0002212	VOLUME	497112.257	3606616.778	50.64
LOCATION	L0002213	VOLUME	497112.346	3606620.057	50.91
LOCATION	L0002214	VOLUME	497112.434	3606623.336	51.21
LOCATION	L0002215	VOLUME	497112.523	3606626.615	51.52
LOCATION	L0002216	VOLUME	497112.612	3606629.894	51.83
LOCATION	L0002217	VOLUME	497112.700	3606633.172	52.14
LOCATION	L0002218	VOLUME	497112.789	3606636.451	52.44
LOCATION	L0002219	VOLUME	497112.877	3606639.730	52.74
LOCATION	L0002220	VOLUME	497112.966	3606643.009	53.04
LOCATION	L0002221	VOLUME	497113.055	3606646.288	53.34
LOCATION	L0002222	VOLUME	497113.143	3606649.566	53.64
LOCATION	L0002223	VOLUME	497113.232	3606652.845	53.95
LOCATION	L0002224	VOLUME	497113.321	3606656.124	54.34
LOCATION	L0002225	VOLUME	497113.339	3606659.404	54.74
LOCATION	L0002226	VOLUME	497113.336	3606662.684	55.15
LOCATION	L0002227	VOLUME	497113.334	3606665.964	55.55
LOCATION	L0002228	VOLUME	497113.332	3606669.244	55.96
LOCATION	L0002229	VOLUME	497113.330	3606672.524	56.36
LOCATION	L0002230	VOLUME	497113.328	3606675.804	56.77
LOCATION	L0002231	VOLUME	497113.326	3606679.084	57.17
LOCATION	L0002232	VOLUME	497113.324	3606682.364	57.58
LOCATION	L0002233	VOLUME	497113.321	3606685.644	57.97
LOCATION	L0002234	VOLUME	497113.319	3606688.924	58.35
LOCATION	L0002235	VOLUME	497113.317	3606692.204	58.74
LOCATION	L0002236	VOLUME	497113.315	3606695.484	59.13
LOCATION	L0002237	VOLUME	497113.313	3606698.764	59.51
LOCATION	L0002238	VOLUME	497113.311	3606702.044	59.90
LOCATION	L0002239	VOLUME	497113.309	3606705.324	60.28
LOCATION	L0002240	VOLUME	497113.306	3606708.604	60.67
LOCATION	L0002241	VOLUME	497113.304	3606711.884	61.06
LOCATION	L0002242	VOLUME	497113.302	3606715.164	61.46
LOCATION	L0002243	VOLUME	497113.300	3606718.444	61.88

LOCATION	VOLUME	497113.298	3606721.724	62.30
LOCATION L0002244	VOLUME	497113.298	3606721.724	62.30
LOCATION L0002245	VOLUME	497113.296	3606725.004	62.72
LOCATION L0002246	VOLUME	497113.294	3606728.284	63.14
LOCATION L0002247	VOLUME	497113.291	3606731.564	63.56
LOCATION L0002248	VOLUME	497113.289	3606734.844	63.98
LOCATION L0002249	VOLUME	497113.287	3606738.124	64.40
LOCATION L0002250	VOLUME	497113.285	3606741.404	64.82
LOCATION L0002251	VOLUME	497113.283	3606744.684	65.25
LOCATION L0002252	VOLUME	497113.281	3606747.964	66.04
LOCATION L0002253	VOLUME	497113.279	3606751.244	66.83
LOCATION L0002254	VOLUME	497113.276	3606754.524	67.63
LOCATION L0002255	VOLUME	497113.274	3606757.804	68.42
LOCATION L0002256	VOLUME	497113.272	3606761.084	69.21
LOCATION L0002257	VOLUME	497113.270	3606764.364	70.01
LOCATION L0002258	VOLUME	497113.268	3606767.644	70.80
LOCATION L0002259	VOLUME	497113.266	3606770.924	71.59
LOCATION L0002260	VOLUME	497113.264	3606774.204	72.39
LOCATION L0002261	VOLUME	497113.261	3606777.484	72.87

** End of LINE VOLUME Source ID = SLINE1

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = SLINE2

** DESCRSRC Shinohara Lane from Project Driveway to Brandywine Ave

** PREFIX

** Length of Side = 3.28

** Configuration = Adjacent

** Emission Rate = 9.38E-07

** Elevated

** Vertical Dimension = 3.66

** SZINIT = 0.85

** Nodes = 3

** 497126.126, 3606562.573, 46.29, 0.00, 1.53

** 497128.006, 3606560.276, 46.47, 0.00, 1.53

** 497249.204, 3606559.551, 48.32, 0.00, 1.53

** -----

LOCATION	VOLUME	497127.165	3606561.304	46.94
LOCATION L0002262	VOLUME	497127.165	3606561.304	46.94
LOCATION L0002263	VOLUME	497129.958	3606560.264	47.13
LOCATION L0002264	VOLUME	497133.238	3606560.244	47.48
LOCATION L0002265	VOLUME	497136.517	3606560.225	47.83
LOCATION L0002266	VOLUME	497139.797	3606560.205	48.18
LOCATION L0002267	VOLUME	497143.077	3606560.186	48.53
LOCATION L0002268	VOLUME	497146.357	3606560.166	48.79
LOCATION L0002269	VOLUME	497149.637	3606560.146	48.69
LOCATION L0002270	VOLUME	497152.917	3606560.127	48.58
LOCATION L0002271	VOLUME	497156.197	3606560.107	48.47
LOCATION L0002272	VOLUME	497159.477	3606560.087	48.36
LOCATION L0002273	VOLUME	497162.757	3606560.068	48.26
LOCATION L0002274	VOLUME	497166.037	3606560.048	48.15
LOCATION L0002275	VOLUME	497169.317	3606560.029	48.04
LOCATION L0002276	VOLUME	497172.597	3606560.009	47.97
LOCATION L0002277	VOLUME	497175.877	3606559.989	48.02

LOCATION	VOLUME				
L0002278	497179.157	3606559.970	48.07		
L0002279	497182.437	3606559.950	48.11		
L0002280	497185.717	3606559.931	48.16		
L0002281	497188.997	3606559.911	48.21		
L0002282	497192.276	3606559.891	48.25		
L0002283	497195.556	3606559.872	48.30		
L0002284	497198.836	3606559.852	48.34		
L0002285	497202.116	3606559.832	48.36		
L0002286	497205.396	3606559.813	48.37		
L0002287	497208.676	3606559.793	48.39		
L0002288	497211.956	3606559.774	48.41		
L0002289	497215.236	3606559.754	48.43		
L0002290	497218.516	3606559.734	48.45		
L0002291	497221.796	3606559.715	48.47		
L0002292	497225.076	3606559.695	48.48		
L0002293	497228.356	3606559.676	48.46		
L0002294	497231.636	3606559.656	48.43		
L0002295	497234.916	3606559.636	48.41		
L0002296	497238.196	3606559.617	48.39		
L0002297	497241.476	3606559.597	48.37		
L0002298	497244.756	3606559.577	48.35		
L0002299	497248.035	3606559.558	48.32		

** End of LINE VOLUME Source ID = SLINE2

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = SLINE3

** DESCRSRC Brandywine Ave from Shinohara Lane to Main Street

** PREFIX

** Length of Side = 3.28

** Configuration = Adjacent

** Emission Rate = 1.32E-06

** Elevated

** Vertical Dimension = 3.66

** SZINIT = 0.85

** Nodes = 2

** 497249.977, 3606559.231, 48.32, 0.00, 1.53

** 497251.206, 3606385.124, 42.07, 0.00, 1.53

** -----

LOCATION	VOLUME				
L0002300	497249.989	3606557.591	48.25		
L0002301	497250.012	3606554.311	48.14		
L0002302	497250.035	3606551.032	48.03		
L0002303	497250.058	3606547.752	47.92		
L0002304	497250.082	3606544.472	47.81		
L0002305	497250.105	3606541.192	47.70		
L0002306	497250.128	3606537.912	47.59		
L0002307	497250.151	3606534.632	47.48		
L0002308	497250.174	3606531.352	47.37		
L0002309	497250.197	3606528.072	47.26		
L0002310	497250.220	3606524.792	47.14		
L0002311	497250.244	3606521.512	47.01		
L0002312	497250.267	3606518.232	46.89		

LOCATION	VOLUME				
L0002313	497250.290	3606514.952	46.77		
L0002314	497250.313	3606511.673	46.64		
L0002315	497250.336	3606508.393	46.52		
L0002316	497250.359	3606505.113	46.39		
L0002317	497250.382	3606501.833	46.27		
L0002318	497250.406	3606498.553	46.14		
L0002319	497250.429	3606495.273	45.99		
L0002320	497250.452	3606491.993	45.84		
L0002321	497250.475	3606488.713	45.69		
L0002322	497250.498	3606485.433	45.53		
L0002323	497250.521	3606482.153	45.38		
L0002324	497250.544	3606478.873	45.22		
L0002325	497250.567	3606475.593	45.07		
L0002326	497250.591	3606472.314	44.92		
L0002327	497250.614	3606469.034	44.76		
L0002328	497250.637	3606465.754	44.60		
L0002329	497250.660	3606462.474	44.42		
L0002330	497250.683	3606459.194	44.24		
L0002331	497250.706	3606455.914	44.07		
L0002332	497250.729	3606452.634	43.90		
L0002333	497250.753	3606449.354	43.72		
L0002334	497250.776	3606446.074	43.55		
L0002335	497250.799	3606442.794	43.38		
L0002336	497250.822	3606439.514	43.20		
L0002337	497250.845	3606436.234	43.03		
L0002338	497250.868	3606432.955	42.90		
L0002339	497250.891	3606429.675	42.76		
L0002340	497250.915	3606426.395	42.62		
L0002341	497250.938	3606423.115	42.48		
L0002342	497250.961	3606419.835	42.35		
L0002343	497250.984	3606416.555	42.21		
L0002344	497251.007	3606413.275	42.07		
L0002345	497251.030	3606409.995	41.94		
L0002346	497251.053	3606406.715	41.80		
L0002347	497251.077	3606403.435	41.79		
L0002348	497251.100	3606400.155	41.83		
L0002349	497251.123	3606396.875	41.86		
L0002350	497251.146	3606393.595	41.89		
L0002351	497251.169	3606390.316	41.93		
L0002352	497251.192	3606387.036	41.96		

** End of LINE VOLUME Source ID = SLINE3

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = SLINE4

** DESCRSRC Main Street from Brandywine Ave to 805 freeway

** PREFIX

** Length of Side = 3.28

** Configuration = Adjacent

** Emission Rate = 4.47E-06

** Elevated

** Vertical Dimension = 3.66

** SZINIT = 0.85
** Nodes = 2
** 497250.550, 3606383.877, 42.07, 0.00, 1.53
** 496658.774, 3606390.392, 39.20, 0.00, 1.53

LOCATION	L0002353	VOLUME	497248.910	3606383.895	41.98
LOCATION	L0002354	VOLUME	497245.630	3606383.931	42.02
LOCATION	L0002355	VOLUME	497242.350	3606383.967	42.06
LOCATION	L0002356	VOLUME	497239.071	3606384.003	42.10
LOCATION	L0002357	VOLUME	497235.791	3606384.040	42.14
LOCATION	L0002358	VOLUME	497232.511	3606384.076	42.18
LOCATION	L0002359	VOLUME	497229.231	3606384.112	42.22
LOCATION	L0002360	VOLUME	497225.951	3606384.148	42.26
LOCATION	L0002361	VOLUME	497222.672	3606384.184	42.29
LOCATION	L0002362	VOLUME	497219.392	3606384.220	42.28
LOCATION	L0002363	VOLUME	497216.112	3606384.256	42.27
LOCATION	L0002364	VOLUME	497212.832	3606384.292	42.26
LOCATION	L0002365	VOLUME	497209.552	3606384.328	42.25
LOCATION	L0002366	VOLUME	497206.273	3606384.365	42.25
LOCATION	L0002367	VOLUME	497202.993	3606384.401	42.24
LOCATION	L0002368	VOLUME	497199.713	3606384.437	42.23
LOCATION	L0002369	VOLUME	497196.433	3606384.473	42.22
LOCATION	L0002370	VOLUME	497193.153	3606384.509	42.21
LOCATION	L0002371	VOLUME	497189.874	3606384.545	42.21
LOCATION	L0002372	VOLUME	497186.594	3606384.581	42.20
LOCATION	L0002373	VOLUME	497183.314	3606384.617	42.19
LOCATION	L0002374	VOLUME	497180.034	3606384.653	42.19
LOCATION	L0002375	VOLUME	497176.754	3606384.690	42.18
LOCATION	L0002376	VOLUME	497173.475	3606384.726	42.17
LOCATION	L0002377	VOLUME	497170.195	3606384.762	42.18
LOCATION	L0002378	VOLUME	497166.915	3606384.798	42.18
LOCATION	L0002379	VOLUME	497163.635	3606384.834	42.19
LOCATION	L0002380	VOLUME	497160.355	3606384.870	42.20
LOCATION	L0002381	VOLUME	497157.076	3606384.906	42.21
LOCATION	L0002382	VOLUME	497153.796	3606384.942	42.22
LOCATION	L0002383	VOLUME	497150.516	3606384.978	42.23
LOCATION	L0002384	VOLUME	497147.236	3606385.015	42.24
LOCATION	L0002385	VOLUME	497143.956	3606385.051	42.19
LOCATION	L0002386	VOLUME	497140.677	3606385.087	42.08
LOCATION	L0002387	VOLUME	497137.397	3606385.123	41.96
LOCATION	L0002388	VOLUME	497134.117	3606385.159	41.85
LOCATION	L0002389	VOLUME	497130.837	3606385.195	41.73
LOCATION	L0002390	VOLUME	497127.557	3606385.231	41.62
LOCATION	L0002391	VOLUME	497124.278	3606385.267	41.50
LOCATION	L0002392	VOLUME	497120.998	3606385.303	41.38
LOCATION	L0002393	VOLUME	497117.718	3606385.340	41.35
LOCATION	L0002394	VOLUME	497114.438	3606385.376	41.36
LOCATION	L0002395	VOLUME	497111.158	3606385.412	41.38
LOCATION	L0002396	VOLUME	497107.879	3606385.448	41.40
LOCATION	L0002397	VOLUME	497104.599	3606385.484	41.42
LOCATION	L0002398	VOLUME	497101.319	3606385.520	41.44

LOCATION	L0002399	VOLUME	497098.039	3606385.556	41.46
LOCATION	L0002400	VOLUME	497094.759	3606385.592	41.48
LOCATION	L0002401	VOLUME	497091.480	3606385.628	41.39
LOCATION	L0002402	VOLUME	497088.200	3606385.665	41.24
LOCATION	L0002403	VOLUME	497084.920	3606385.701	41.09
LOCATION	L0002404	VOLUME	497081.640	3606385.737	40.94
LOCATION	L0002405	VOLUME	497078.360	3606385.773	40.79
LOCATION	L0002406	VOLUME	497075.080	3606385.809	40.64
LOCATION	L0002407	VOLUME	497071.801	3606385.845	40.49
LOCATION	L0002408	VOLUME	497068.521	3606385.881	40.33
LOCATION	L0002409	VOLUME	497065.241	3606385.917	40.33
LOCATION	L0002410	VOLUME	497061.961	3606385.953	40.40
LOCATION	L0002411	VOLUME	497058.681	3606385.990	40.46
LOCATION	L0002412	VOLUME	497055.402	3606386.026	40.53
LOCATION	L0002413	VOLUME	497052.122	3606386.062	40.60
LOCATION	L0002414	VOLUME	497048.842	3606386.098	40.67
LOCATION	L0002415	VOLUME	497045.562	3606386.134	40.74
LOCATION	L0002416	VOLUME	497042.282	3606386.170	40.81
LOCATION	L0002417	VOLUME	497039.003	3606386.206	40.83
LOCATION	L0002418	VOLUME	497035.723	3606386.242	40.82
LOCATION	L0002419	VOLUME	497032.443	3606386.278	40.82
LOCATION	L0002420	VOLUME	497029.163	3606386.314	40.81
LOCATION	L0002421	VOLUME	497025.883	3606386.351	40.81
LOCATION	L0002422	VOLUME	497022.604	3606386.387	40.81
LOCATION	L0002423	VOLUME	497019.324	3606386.423	40.80
LOCATION	L0002424	VOLUME	497016.044	3606386.459	40.80
LOCATION	L0002425	VOLUME	497012.764	3606386.495	40.79
LOCATION	L0002426	VOLUME	497009.484	3606386.531	40.78
LOCATION	L0002427	VOLUME	497006.205	3606386.567	40.76
LOCATION	L0002428	VOLUME	497002.925	3606386.603	40.75
LOCATION	L0002429	VOLUME	496999.645	3606386.639	40.74
LOCATION	L0002430	VOLUME	496996.365	3606386.676	40.72
LOCATION	L0002431	VOLUME	496993.085	3606386.712	40.71
LOCATION	L0002432	VOLUME	496989.806	3606386.748	40.70
LOCATION	L0002433	VOLUME	496986.526	3606386.784	40.67
LOCATION	L0002434	VOLUME	496983.246	3606386.820	40.64
LOCATION	L0002435	VOLUME	496979.966	3606386.856	40.62
LOCATION	L0002436	VOLUME	496976.686	3606386.892	40.59
LOCATION	L0002437	VOLUME	496973.407	3606386.928	40.56
LOCATION	L0002438	VOLUME	496970.127	3606386.964	40.53
LOCATION	L0002439	VOLUME	496966.847	3606387.001	40.50
LOCATION	L0002440	VOLUME	496963.567	3606387.037	40.47
LOCATION	L0002441	VOLUME	496960.287	3606387.073	40.45
LOCATION	L0002442	VOLUME	496957.008	3606387.109	40.43
LOCATION	L0002443	VOLUME	496953.728	3606387.145	40.40
LOCATION	L0002444	VOLUME	496950.448	3606387.181	40.38
LOCATION	L0002445	VOLUME	496947.168	3606387.217	40.36
LOCATION	L0002446	VOLUME	496943.888	3606387.253	40.34
LOCATION	L0002447	VOLUME	496940.609	3606387.289	40.32
LOCATION	L0002448	VOLUME	496937.329	3606387.326	40.29
LOCATION	L0002449	VOLUME	496934.049	3606387.362	40.43

LOCATION	L0002450	VOLUME	496930.769	3606387.398	40.57
LOCATION	L0002451	VOLUME	496927.489	3606387.434	40.71
LOCATION	L0002452	VOLUME	496924.210	3606387.470	40.85
LOCATION	L0002453	VOLUME	496920.930	3606387.506	40.99
LOCATION	L0002454	VOLUME	496917.650	3606387.542	41.13
LOCATION	L0002455	VOLUME	496914.370	3606387.578	41.28
LOCATION	L0002456	VOLUME	496911.090	3606387.614	41.42
LOCATION	L0002457	VOLUME	496907.811	3606387.651	41.48
LOCATION	L0002458	VOLUME	496904.531	3606387.687	41.53
LOCATION	L0002459	VOLUME	496901.251	3606387.723	41.59
LOCATION	L0002460	VOLUME	496897.971	3606387.759	41.64
LOCATION	L0002461	VOLUME	496894.691	3606387.795	41.70
LOCATION	L0002462	VOLUME	496891.412	3606387.831	41.75
LOCATION	L0002463	VOLUME	496888.132	3606387.867	41.81
LOCATION	L0002464	VOLUME	496884.852	3606387.903	41.86
LOCATION	L0002465	VOLUME	496881.572	3606387.939	41.91
LOCATION	L0002466	VOLUME	496878.292	3606387.976	41.95
LOCATION	L0002467	VOLUME	496875.013	3606388.012	42.00
LOCATION	L0002468	VOLUME	496871.733	3606388.048	42.04
LOCATION	L0002469	VOLUME	496868.453	3606388.084	42.09
LOCATION	L0002470	VOLUME	496865.173	3606388.120	42.13
LOCATION	L0002471	VOLUME	496861.893	3606388.156	42.17
LOCATION	L0002472	VOLUME	496858.614	3606388.192	42.22
LOCATION	L0002473	VOLUME	496855.334	3606388.228	42.26
LOCATION	L0002474	VOLUME	496852.054	3606388.264	42.30
LOCATION	L0002475	VOLUME	496848.774	3606388.301	42.35
LOCATION	L0002476	VOLUME	496845.494	3606388.337	42.39
LOCATION	L0002477	VOLUME	496842.215	3606388.373	42.43
LOCATION	L0002478	VOLUME	496838.935	3606388.409	42.48
LOCATION	L0002479	VOLUME	496835.655	3606388.445	42.52
LOCATION	L0002480	VOLUME	496832.375	3606388.481	42.56
LOCATION	L0002481	VOLUME	496829.095	3606388.517	42.61
LOCATION	L0002482	VOLUME	496825.816	3606388.553	42.65
LOCATION	L0002483	VOLUME	496822.536	3606388.589	42.70
LOCATION	L0002484	VOLUME	496819.256	3606388.626	42.74
LOCATION	L0002485	VOLUME	496815.976	3606388.662	42.79
LOCATION	L0002486	VOLUME	496812.696	3606388.698	42.83
LOCATION	L0002487	VOLUME	496809.417	3606388.734	42.88
LOCATION	L0002488	VOLUME	496806.137	3606388.770	42.92
LOCATION	L0002489	VOLUME	496802.857	3606388.806	42.94
LOCATION	L0002490	VOLUME	496799.577	3606388.842	42.97
LOCATION	L0002491	VOLUME	496796.297	3606388.878	43.00
LOCATION	L0002492	VOLUME	496793.018	3606388.914	43.03
LOCATION	L0002493	VOLUME	496789.738	3606388.951	43.06
LOCATION	L0002494	VOLUME	496786.458	3606388.987	43.09
LOCATION	L0002495	VOLUME	496783.178	3606389.023	43.12
LOCATION	L0002496	VOLUME	496779.898	3606389.059	43.13
LOCATION	L0002497	VOLUME	496776.619	3606389.095	43.06
LOCATION	L0002498	VOLUME	496773.339	3606389.131	42.99
LOCATION	L0002499	VOLUME	496770.059	3606389.167	42.92
LOCATION	L0002500	VOLUME	496766.779	3606389.203	42.85

LOCATION	L0002501	VOLUME	496763.499	3606389.239	42.78
LOCATION	L0002502	VOLUME	496760.220	3606389.276	42.71
LOCATION	L0002503	VOLUME	496756.940	3606389.312	42.64
LOCATION	L0002504	VOLUME	496753.660	3606389.348	42.57
LOCATION	L0002505	VOLUME	496750.380	3606389.384	42.49
LOCATION	L0002506	VOLUME	496747.100	3606389.420	42.42
LOCATION	L0002507	VOLUME	496743.821	3606389.456	42.35
LOCATION	L0002508	VOLUME	496740.541	3606389.492	42.27
LOCATION	L0002509	VOLUME	496737.261	3606389.528	42.20
LOCATION	L0002510	VOLUME	496733.981	3606389.564	42.12
LOCATION	L0002511	VOLUME	496730.701	3606389.601	42.05
LOCATION	L0002512	VOLUME	496727.422	3606389.637	41.95
LOCATION	L0002513	VOLUME	496724.142	3606389.673	41.82
LOCATION	L0002514	VOLUME	496720.862	3606389.709	41.69
LOCATION	L0002515	VOLUME	496717.582	3606389.745	41.56
LOCATION	L0002516	VOLUME	496714.302	3606389.781	41.43
LOCATION	L0002517	VOLUME	496711.023	3606389.817	41.29
LOCATION	L0002518	VOLUME	496707.743	3606389.853	41.16
LOCATION	L0002519	VOLUME	496704.463	3606389.889	41.03
LOCATION	L0002520	VOLUME	496701.183	3606389.926	40.89
LOCATION	L0002521	VOLUME	496697.903	3606389.962	40.73
LOCATION	L0002522	VOLUME	496694.624	3606389.998	40.57
LOCATION	L0002523	VOLUME	496691.344	3606390.034	40.41
LOCATION	L0002524	VOLUME	496688.064	3606390.070	40.26
LOCATION	L0002525	VOLUME	496684.784	3606390.106	40.10
LOCATION	L0002526	VOLUME	496681.504	3606390.142	39.94
LOCATION	L0002527	VOLUME	496678.225	3606390.178	39.78
LOCATION	L0002528	VOLUME	496674.945	3606390.214	39.66
LOCATION	L0002529	VOLUME	496671.665	3606390.251	39.58
LOCATION	L0002530	VOLUME	496668.385	3606390.287	39.51
LOCATION	L0002531	VOLUME	496665.105	3606390.323	39.43
LOCATION	L0002532	VOLUME	496661.826	3606390.359	39.36
** End of LINE VOLUME Source ID = SLINE4					
LOCATION	STCK1	POINT	497086.160	3606629.320	54.370
** DESCRSRC Idle Position 1					
LOCATION	STCK2	POINT	497085.270	3606660.680	59.380
** DESCRSRC Idle Position 2					
LOCATION	STCK3	POINT	497085.940	3606691.590	62.580
** DESCRSRC Idle Position 3					
LOCATION	STCK4	POINT	497086.160	3606731.400	64.210
** DESCRSRC Idle Position 4					
** -----					
** Line Source Represented by Adjacent Volume Sources					
** LINE VOLUME Source ID = SLINE5					
** DESCRSRC 805 Freeway Northbound Ramp					
** PREFIX					
** Length of Side = 3.28					
** Configuration = Adjacent					
** Emission Rate = 1.03E-06					
** Elevated					
** Vertical Dimension = 3.66					

** SZINIT = 0.85
** Nodes = 3
** 496660.808, 3606392.737, 39.18, 0.00, 1.53
** 496656.048, 3606447.305, 40.21, 0.00, 1.53
** 496635.811, 3606665.221, 55.96, 0.00, 1.53

** LOCATION L0002533 VOLUME 496660.665 3606394.370 39.32
LOCATION L0002534 VOLUME 496660.380 3606397.638 39.30
LOCATION L0002535 VOLUME 496660.095 3606400.906 39.28
LOCATION L0002536 VOLUME 496659.810 3606404.173 39.26
LOCATION L0002537 VOLUME 496659.525 3606407.441 39.33
LOCATION L0002538 VOLUME 496659.240 3606410.708 39.51
LOCATION L0002539 VOLUME 496658.955 3606413.976 39.67
LOCATION L0002540 VOLUME 496658.670 3606417.244 39.83
LOCATION L0002541 VOLUME 496658.385 3606420.511 39.97
LOCATION L0002542 VOLUME 496658.100 3606423.779 40.11
LOCATION L0002543 VOLUME 496657.815 3606427.046 40.23
LOCATION L0002544 VOLUME 496657.530 3606430.314 40.34
LOCATION L0002545 VOLUME 496657.245 3606433.581 40.44
LOCATION L0002546 VOLUME 496656.960 3606436.849 40.53
LOCATION L0002547 VOLUME 496656.675 3606440.117 40.67
LOCATION L0002548 VOLUME 496656.390 3606443.384 40.80
LOCATION L0002549 VOLUME 496656.105 3606446.652 40.93
LOCATION L0002550 VOLUME 496655.805 3606449.918 41.04
LOCATION L0002551 VOLUME 496655.502 3606453.184 41.14
LOCATION L0002552 VOLUME 496655.198 3606456.450 41.24
LOCATION L0002553 VOLUME 496654.895 3606459.716 41.33
LOCATION L0002554 VOLUME 496654.592 3606462.982 41.41
LOCATION L0002555 VOLUME 496654.288 3606466.248 41.48
LOCATION L0002556 VOLUME 496653.985 3606469.514 41.57
LOCATION L0002557 VOLUME 496653.682 3606472.780 41.67
LOCATION L0002558 VOLUME 496653.379 3606476.046 41.77
LOCATION L0002559 VOLUME 496653.075 3606479.312 41.86
LOCATION L0002560 VOLUME 496652.772 3606482.578 41.96
LOCATION L0002561 VOLUME 496652.469 3606485.844 42.04
LOCATION L0002562 VOLUME 496652.165 3606489.109 42.13
LOCATION L0002563 VOLUME 496651.862 3606492.375 42.21
LOCATION L0002564 VOLUME 496651.559 3606495.641 42.29
LOCATION L0002565 VOLUME 496651.255 3606498.907 42.39
LOCATION L0002566 VOLUME 496650.952 3606502.173 42.58
LOCATION L0002567 VOLUME 496650.649 3606505.439 42.77
LOCATION L0002568 VOLUME 496650.346 3606508.705 43.03
LOCATION L0002569 VOLUME 496650.042 3606511.971 43.39
LOCATION L0002570 VOLUME 496649.739 3606515.237 43.75
LOCATION L0002571 VOLUME 496649.436 3606518.503 44.10
LOCATION L0002572 VOLUME 496649.132 3606521.769 44.44
LOCATION L0002573 VOLUME 496648.829 3606525.035 44.78
LOCATION L0002574 VOLUME 496648.526 3606528.301 45.12
LOCATION L0002575 VOLUME 496648.223 3606531.567 45.39
LOCATION L0002576 VOLUME 496647.919 3606534.833 45.64
LOCATION L0002577 VOLUME 496647.616 3606538.099 45.89

LOCATION	L0002578	VOLUME	496647.313	3606541.365	46.13
LOCATION	L0002579	VOLUME	496647.009	3606544.631	46.37
LOCATION	L0002580	VOLUME	496646.706	3606547.897	46.61
LOCATION	L0002581	VOLUME	496646.403	3606551.162	46.84
LOCATION	L0002582	VOLUME	496646.099	3606554.428	47.07
LOCATION	L0002583	VOLUME	496645.796	3606557.694	47.29
LOCATION	L0002584	VOLUME	496645.493	3606560.960	47.56
LOCATION	L0002585	VOLUME	496645.190	3606564.226	47.96
LOCATION	L0002586	VOLUME	496644.886	3606567.492	48.35
LOCATION	L0002587	VOLUME	496644.583	3606570.758	48.72
LOCATION	L0002588	VOLUME	496644.280	3606574.024	49.09
LOCATION	L0002589	VOLUME	496643.976	3606577.290	49.46
LOCATION	L0002590	VOLUME	496643.673	3606580.556	49.81
LOCATION	L0002591	VOLUME	496643.370	3606583.822	50.16
LOCATION	L0002592	VOLUME	496643.066	3606587.088	50.50
LOCATION	L0002593	VOLUME	496642.763	3606590.354	50.83
LOCATION	L0002594	VOLUME	496642.460	3606593.620	51.19
LOCATION	L0002595	VOLUME	496642.157	3606596.886	51.55
LOCATION	L0002596	VOLUME	496641.853	3606600.152	51.89
LOCATION	L0002597	VOLUME	496641.550	3606603.418	52.23
LOCATION	L0002598	VOLUME	496641.247	3606606.684	52.56
LOCATION	L0002599	VOLUME	496640.943	3606609.950	52.88
LOCATION	L0002600	VOLUME	496640.640	3606613.215	53.19
LOCATION	L0002601	VOLUME	496640.337	3606616.481	53.49
LOCATION	L0002602	VOLUME	496640.034	3606619.747	53.78
LOCATION	L0002603	VOLUME	496639.730	3606623.013	54.04
LOCATION	L0002604	VOLUME	496639.427	3606626.279	54.27
LOCATION	L0002605	VOLUME	496639.124	3606629.545	54.50
LOCATION	L0002606	VOLUME	496638.820	3606632.811	54.71
LOCATION	L0002607	VOLUME	496638.517	3606636.077	54.93
LOCATION	L0002608	VOLUME	496638.214	3606639.343	55.14
LOCATION	L0002609	VOLUME	496637.910	3606642.609	55.34
LOCATION	L0002610	VOLUME	496637.607	3606645.875	55.54
LOCATION	L0002611	VOLUME	496637.304	3606649.141	55.73
LOCATION	L0002612	VOLUME	496637.001	3606652.407	55.92
LOCATION	L0002613	VOLUME	496636.697	3606655.673	56.04
LOCATION	L0002614	VOLUME	496636.394	3606658.939	56.15
LOCATION	L0002615	VOLUME	496636.091	3606662.205	56.26

** End of LINE VOLUME Source ID = SLINE5

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = SLINE6

** DESCRSRC Main Street from 805 NB Ramp to SB Ramp

** PREFIX

** Length of Side = 3.28

** Configuration = Adjacent

** Emission Rate = 4.6E-07

** Elevated

** Vertical Dimension = 3.66

** SZINIT = 0.85

** Nodes = 2

** 496657.542, 3606389.788, 39.21, 0.00, 1.53
** 496535.861, 3606385.384, 39.14, 0.00, 1.53

** -----
LOCATION L0002616 VOLUME 496655.903 3606389.729 39.23
LOCATION L0002617 VOLUME 496652.625 3606389.610 39.16
LOCATION L0002618 VOLUME 496649.347 3606389.492 39.21
LOCATION L0002619 VOLUME 496646.069 3606389.373 39.53
LOCATION L0002620 VOLUME 496642.791 3606389.254 39.85
LOCATION L0002621 VOLUME 496639.514 3606389.136 40.15
LOCATION L0002622 VOLUME 496636.236 3606389.017 40.46
LOCATION L0002623 VOLUME 496632.958 3606388.898 40.75
LOCATION L0002624 VOLUME 496629.680 3606388.780 41.04
LOCATION L0002625 VOLUME 496626.402 3606388.661 41.33
LOCATION L0002626 VOLUME 496623.124 3606388.542 41.55
LOCATION L0002627 VOLUME 496619.846 3606388.424 41.66
LOCATION L0002628 VOLUME 496616.569 3606388.305 41.77
LOCATION L0002629 VOLUME 496613.291 3606388.186 41.88
LOCATION L0002630 VOLUME 496610.013 3606388.068 41.99
LOCATION L0002631 VOLUME 496606.735 3606387.949 42.09
LOCATION L0002632 VOLUME 496603.457 3606387.830 42.19
LOCATION L0002633 VOLUME 496600.179 3606387.712 42.29
LOCATION L0002634 VOLUME 496596.901 3606387.593 42.32
LOCATION L0002635 VOLUME 496593.624 3606387.475 42.28
LOCATION L0002636 VOLUME 496590.346 3606387.356 42.23
LOCATION L0002637 VOLUME 496587.068 3606387.237 42.18
LOCATION L0002638 VOLUME 496583.790 3606387.119 42.14
LOCATION L0002639 VOLUME 496580.512 3606387.000 42.09
LOCATION L0002640 VOLUME 496577.234 3606386.881 42.05
LOCATION L0002641 VOLUME 496573.956 3606386.763 42.00
LOCATION L0002642 VOLUME 496570.679 3606386.644 41.79
LOCATION L0002643 VOLUME 496567.401 3606386.525 41.41
LOCATION L0002644 VOLUME 496564.123 3606386.407 41.03
LOCATION L0002645 VOLUME 496560.845 3606386.288 40.66
LOCATION L0002646 VOLUME 496557.567 3606386.169 40.30
LOCATION L0002647 VOLUME 496554.289 3606386.051 39.94
LOCATION L0002648 VOLUME 496551.012 3606385.932 39.60
LOCATION L0002649 VOLUME 496547.734 3606385.814 39.26
LOCATION L0002650 VOLUME 496544.456 3606385.695 39.15
LOCATION L0002651 VOLUME 496541.178 3606385.576 39.26
LOCATION L0002652 VOLUME 496537.900 3606385.458 39.37

** End of LINE VOLUME Source ID = SLINE6

** -----
** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = SLINE7

** DESCRSRC 805 SB Ramp

** PREFIX

** Length of Side = 3.28

** Configuration = Adjacent

** Emission Rate = 9.33E-07

** Elevated

** Vertical Dimension = 3.66

** SZINIT = 0.85
** Nodes = 2
** 496537.129, 3606382.811, 39.16, 0.00, 1.53
** 496567.248, 3606137.652, 39.35, 0.00, 1.53

LOCATION	L0002653	VOLUME	496537.329	3606381.184	39.30
LOCATION	L0002654	VOLUME	496537.729	3606377.928	39.24
LOCATION	L0002655	VOLUME	496538.129	3606374.673	39.17
LOCATION	L0002656	VOLUME	496538.529	3606371.417	39.08
LOCATION	L0002657	VOLUME	496538.929	3606368.161	39.00
LOCATION	L0002658	VOLUME	496539.329	3606364.906	38.92
LOCATION	L0002659	VOLUME	496539.729	3606361.650	38.84
LOCATION	L0002660	VOLUME	496540.129	3606358.395	38.76
LOCATION	L0002661	VOLUME	496540.529	3606355.139	38.69
LOCATION	L0002662	VOLUME	496540.929	3606351.884	38.62
LOCATION	L0002663	VOLUME	496541.329	3606348.628	38.55
LOCATION	L0002664	VOLUME	496541.729	3606345.373	38.49
LOCATION	L0002665	VOLUME	496542.129	3606342.117	38.48
LOCATION	L0002666	VOLUME	496542.529	3606338.862	38.48
LOCATION	L0002667	VOLUME	496542.929	3606335.606	38.50
LOCATION	L0002668	VOLUME	496543.329	3606332.351	38.51
LOCATION	L0002669	VOLUME	496543.728	3606329.095	38.53
LOCATION	L0002670	VOLUME	496544.128	3606325.840	38.55
LOCATION	L0002671	VOLUME	496544.528	3606322.584	38.58
LOCATION	L0002672	VOLUME	496544.928	3606319.329	38.61
LOCATION	L0002673	VOLUME	496545.328	3606316.073	38.64
LOCATION	L0002674	VOLUME	496545.728	3606312.818	38.69
LOCATION	L0002675	VOLUME	496546.128	3606309.562	38.77
LOCATION	L0002676	VOLUME	496546.528	3606306.307	38.91
LOCATION	L0002677	VOLUME	496546.928	3606303.051	39.04
LOCATION	L0002678	VOLUME	496547.328	3606299.795	39.17
LOCATION	L0002679	VOLUME	496547.728	3606296.540	39.30
LOCATION	L0002680	VOLUME	496548.128	3606293.284	39.42
LOCATION	L0002681	VOLUME	496548.528	3606290.029	39.54
LOCATION	L0002682	VOLUME	496548.928	3606286.773	39.65
LOCATION	L0002683	VOLUME	496549.328	3606283.518	39.76
LOCATION	L0002684	VOLUME	496549.728	3606280.262	39.87
LOCATION	L0002685	VOLUME	496550.128	3606277.007	39.99
LOCATION	L0002686	VOLUME	496550.528	3606273.751	40.09
LOCATION	L0002687	VOLUME	496550.928	3606270.496	40.20
LOCATION	L0002688	VOLUME	496551.328	3606267.240	40.30
LOCATION	L0002689	VOLUME	496551.728	3606263.985	40.39
LOCATION	L0002690	VOLUME	496552.128	3606260.729	40.48
LOCATION	L0002691	VOLUME	496552.528	3606257.474	40.57
LOCATION	L0002692	VOLUME	496552.928	3606254.218	40.65
LOCATION	L0002693	VOLUME	496553.328	3606250.963	40.67
LOCATION	L0002694	VOLUME	496553.727	3606247.707	40.59
LOCATION	L0002695	VOLUME	496554.127	3606244.452	40.50
LOCATION	L0002696	VOLUME	496554.527	3606241.196	40.42
LOCATION	L0002697	VOLUME	496554.927	3606237.941	40.34
LOCATION	L0002698	VOLUME	496555.327	3606234.685	40.27

LOCATION	L0002699	VOLUME	496555.727	3606231.429	40.19
LOCATION	L0002700	VOLUME	496556.127	3606228.174	40.12
LOCATION	L0002701	VOLUME	496556.527	3606224.918	40.05
LOCATION	L0002702	VOLUME	496556.927	3606221.663	39.99
LOCATION	L0002703	VOLUME	496557.327	3606218.407	39.91
LOCATION	L0002704	VOLUME	496557.727	3606215.152	39.83
LOCATION	L0002705	VOLUME	496558.127	3606211.896	39.76
LOCATION	L0002706	VOLUME	496558.527	3606208.641	39.68
LOCATION	L0002707	VOLUME	496558.927	3606205.385	39.62
LOCATION	L0002708	VOLUME	496559.327	3606202.130	39.55
LOCATION	L0002709	VOLUME	496559.727	3606198.874	39.49
LOCATION	L0002710	VOLUME	496560.127	3606195.619	39.43
LOCATION	L0002711	VOLUME	496560.527	3606192.363	39.38
LOCATION	L0002712	VOLUME	496560.927	3606189.108	39.32
LOCATION	L0002713	VOLUME	496561.327	3606185.852	39.27
LOCATION	L0002714	VOLUME	496561.727	3606182.597	39.22
LOCATION	L0002715	VOLUME	496562.127	3606179.341	39.17
LOCATION	L0002716	VOLUME	496562.527	3606176.086	39.13
LOCATION	L0002717	VOLUME	496562.927	3606172.830	39.09
LOCATION	L0002718	VOLUME	496563.326	3606169.575	39.05
LOCATION	L0002719	VOLUME	496563.726	3606166.319	39.02
LOCATION	L0002720	VOLUME	496564.126	3606163.063	39.00
LOCATION	L0002721	VOLUME	496564.526	3606159.808	38.97
LOCATION	L0002722	VOLUME	496564.926	3606156.552	38.98
LOCATION	L0002723	VOLUME	496565.326	3606153.297	38.99
LOCATION	L0002724	VOLUME	496565.726	3606150.041	39.00
LOCATION	L0002725	VOLUME	496566.126	3606146.786	39.01
LOCATION	L0002726	VOLUME	496566.526	3606143.530	39.03
LOCATION	L0002727	VOLUME	496566.926	3606140.275	39.04

** End of LINE VOLUME Source ID = SLINE7

** Source Parameters **

** LINE VOLUME Source ID = SLINE1

SRCPARAM	L0002195	0.00000002955	0.00	1.53	0.85
SRCPARAM	L0002196	0.00000002955	0.00	1.53	0.85
SRCPARAM	L0002197	0.00000002955	0.00	1.53	0.85
SRCPARAM	L0002198	0.00000002955	0.00	1.53	0.85
SRCPARAM	L0002199	0.00000002955	0.00	1.53	0.85
SRCPARAM	L0002200	0.00000002955	0.00	1.53	0.85
SRCPARAM	L0002201	0.00000002955	0.00	1.53	0.85
SRCPARAM	L0002202	0.00000002955	0.00	1.53	0.85
SRCPARAM	L0002203	0.00000002955	0.00	1.53	0.85
SRCPARAM	L0002204	0.00000002955	0.00	1.53	0.85
SRCPARAM	L0002205	0.00000002955	0.00	1.53	0.85
SRCPARAM	L0002206	0.00000002955	0.00	1.53	0.85
SRCPARAM	L0002207	0.00000002955	0.00	1.53	0.85
SRCPARAM	L0002208	0.00000002955	0.00	1.53	0.85
SRCPARAM	L0002209	0.00000002955	0.00	1.53	0.85
SRCPARAM	L0002210	0.00000002955	0.00	1.53	0.85
SRCPARAM	L0002211	0.00000002955	0.00	1.53	0.85
SRCPARAM	L0002212	0.00000002955	0.00	1.53	0.85
SRCPARAM	L0002213	0.00000002955	0.00	1.53	0.85

SRCPARAM	L0002263	0.00000002468	0.00	1.53	0.85
SRCPARAM	L0002264	0.00000002468	0.00	1.53	0.85
SRCPARAM	L0002265	0.00000002468	0.00	1.53	0.85
SRCPARAM	L0002266	0.00000002468	0.00	1.53	0.85
SRCPARAM	L0002267	0.00000002468	0.00	1.53	0.85
SRCPARAM	L0002268	0.00000002468	0.00	1.53	0.85
SRCPARAM	L0002269	0.00000002468	0.00	1.53	0.85
SRCPARAM	L0002270	0.00000002468	0.00	1.53	0.85
SRCPARAM	L0002271	0.00000002468	0.00	1.53	0.85
SRCPARAM	L0002272	0.00000002468	0.00	1.53	0.85
SRCPARAM	L0002273	0.00000002468	0.00	1.53	0.85
SRCPARAM	L0002274	0.00000002468	0.00	1.53	0.85
SRCPARAM	L0002275	0.00000002468	0.00	1.53	0.85
SRCPARAM	L0002276	0.00000002468	0.00	1.53	0.85
SRCPARAM	L0002277	0.00000002468	0.00	1.53	0.85
SRCPARAM	L0002278	0.00000002468	0.00	1.53	0.85
SRCPARAM	L0002279	0.00000002468	0.00	1.53	0.85
SRCPARAM	L0002280	0.00000002468	0.00	1.53	0.85
SRCPARAM	L0002281	0.00000002468	0.00	1.53	0.85
SRCPARAM	L0002282	0.00000002468	0.00	1.53	0.85
SRCPARAM	L0002283	0.00000002468	0.00	1.53	0.85
SRCPARAM	L0002284	0.00000002468	0.00	1.53	0.85
SRCPARAM	L0002285	0.00000002468	0.00	1.53	0.85
SRCPARAM	L0002286	0.00000002468	0.00	1.53	0.85
SRCPARAM	L0002287	0.00000002468	0.00	1.53	0.85
SRCPARAM	L0002288	0.00000002468	0.00	1.53	0.85
SRCPARAM	L0002289	0.00000002468	0.00	1.53	0.85
SRCPARAM	L0002290	0.00000002468	0.00	1.53	0.85
SRCPARAM	L0002291	0.00000002468	0.00	1.53	0.85
SRCPARAM	L0002292	0.00000002468	0.00	1.53	0.85
SRCPARAM	L0002293	0.00000002468	0.00	1.53	0.85
SRCPARAM	L0002294	0.00000002468	0.00	1.53	0.85
SRCPARAM	L0002295	0.00000002468	0.00	1.53	0.85
SRCPARAM	L0002296	0.00000002468	0.00	1.53	0.85
SRCPARAM	L0002297	0.00000002468	0.00	1.53	0.85
SRCPARAM	L0002298	0.00000002468	0.00	1.53	0.85
SRCPARAM	L0002299	0.00000002468	0.00	1.53	0.85

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** LINE VOLUME Source ID = SLINE3

SRCPARAM	L0002300	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002301	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002302	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002303	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002304	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002305	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002306	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002307	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002308	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002309	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002310	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002311	0.00000002491	0.00	1.53	0.85

SRCPARAM	L0002312	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002313	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002314	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002315	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002316	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002317	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002318	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002319	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002320	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002321	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002322	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002323	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002324	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002325	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002326	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002327	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002328	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002329	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002330	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002331	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002332	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002333	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002334	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002335	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002336	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002337	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002338	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002339	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002340	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002341	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002342	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002343	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002344	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002345	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002346	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002347	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002348	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002349	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002350	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002351	0.00000002491	0.00	1.53	0.85
SRCPARAM	L0002352	0.00000002491	0.00	1.53	0.85

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 ** LINE VOLUME Source ID = SLINE4

SRCPARAM	L0002353	0.00000002483	0.00	1.53	0.85
SRCPARAM	L0002354	0.00000002483	0.00	1.53	0.85
SRCPARAM	L0002355	0.00000002483	0.00	1.53	0.85
SRCPARAM	L0002356	0.00000002483	0.00	1.53	0.85
SRCPARAM	L0002357	0.00000002483	0.00	1.53	0.85
SRCPARAM	L0002358	0.00000002483	0.00	1.53	0.85
SRCPARAM	L0002359	0.00000002483	0.00	1.53	0.85
SRCPARAM	L0002360	0.00000002483	0.00	1.53	0.85

SRCPARAM	L0002514	0.00000002483	0.00	1.53	0.85
SRCPARAM	L0002515	0.00000002483	0.00	1.53	0.85
SRCPARAM	L0002516	0.00000002483	0.00	1.53	0.85
SRCPARAM	L0002517	0.00000002483	0.00	1.53	0.85
SRCPARAM	L0002518	0.00000002483	0.00	1.53	0.85
SRCPARAM	L0002519	0.00000002483	0.00	1.53	0.85
SRCPARAM	L0002520	0.00000002483	0.00	1.53	0.85
SRCPARAM	L0002521	0.00000002483	0.00	1.53	0.85
SRCPARAM	L0002522	0.00000002483	0.00	1.53	0.85
SRCPARAM	L0002523	0.00000002483	0.00	1.53	0.85
SRCPARAM	L0002524	0.00000002483	0.00	1.53	0.85
SRCPARAM	L0002525	0.00000002483	0.00	1.53	0.85
SRCPARAM	L0002526	0.00000002483	0.00	1.53	0.85
SRCPARAM	L0002527	0.00000002483	0.00	1.53	0.85
SRCPARAM	L0002528	0.00000002483	0.00	1.53	0.85
SRCPARAM	L0002529	0.00000002483	0.00	1.53	0.85
SRCPARAM	L0002530	0.00000002483	0.00	1.53	0.85
SRCPARAM	L0002531	0.00000002483	0.00	1.53	0.85
SRCPARAM	L0002532	0.00000002483	0.00	1.53	0.85

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SRCPARAM	STCK1	5.11E-06	3.658	366.000	51.90000	0.100
SRCPARAM	STCK2	5.11E-06	3.658	366.000	51.90000	0.100
SRCPARAM	STCK3	5.11E-06	3.658	366.000	551.90000	0.100
SRCPARAM	STCK4	5.11E-06	3.658	366.000	51.90000	0.100

** LINE VOLUME Source ID = SLINES5

SRCPARAM	L0002533	0.00000001241	0.00	1.53	0.85
SRCPARAM	L0002534	0.00000001241	0.00	1.53	0.85
SRCPARAM	L0002535	0.00000001241	0.00	1.53	0.85
SRCPARAM	L0002536	0.00000001241	0.00	1.53	0.85
SRCPARAM	L0002537	0.00000001241	0.00	1.53	0.85
SRCPARAM	L0002538	0.00000001241	0.00	1.53	0.85
SRCPARAM	L0002539	0.00000001241	0.00	1.53	0.85
SRCPARAM	L0002540	0.00000001241	0.00	1.53	0.85
SRCPARAM	L0002541	0.00000001241	0.00	1.53	0.85
SRCPARAM	L0002542	0.00000001241	0.00	1.53	0.85
SRCPARAM	L0002543	0.00000001241	0.00	1.53	0.85
SRCPARAM	L0002544	0.00000001241	0.00	1.53	0.85
SRCPARAM	L0002545	0.00000001241	0.00	1.53	0.85
SRCPARAM	L0002546	0.00000001241	0.00	1.53	0.85
SRCPARAM	L0002547	0.00000001241	0.00	1.53	0.85
SRCPARAM	L0002548	0.00000001241	0.00	1.53	0.85
SRCPARAM	L0002549	0.00000001241	0.00	1.53	0.85
SRCPARAM	L0002550	0.00000001241	0.00	1.53	0.85
SRCPARAM	L0002551	0.00000001241	0.00	1.53	0.85
SRCPARAM	L0002552	0.00000001241	0.00	1.53	0.85
SRCPARAM	L0002553	0.00000001241	0.00	1.53	0.85
SRCPARAM	L0002554	0.00000001241	0.00	1.53	0.85
SRCPARAM	L0002555	0.00000001241	0.00	1.53	0.85
SRCPARAM	L0002556	0.00000001241	0.00	1.53	0.85
SRCPARAM	L0002557	0.00000001241	0.00	1.53	0.85
SRCPARAM	L0002558	0.00000001241	0.00	1.53	0.85

SRCPARAM	L0002610	0.00000001241	0.00	1.53	0.85
SRCPARAM	L0002611	0.00000001241	0.00	1.53	0.85
SRCPARAM	L0002612	0.00000001241	0.00	1.53	0.85
SRCPARAM	L0002613	0.00000001241	0.00	1.53	0.85
SRCPARAM	L0002614	0.00000001241	0.00	1.53	0.85
SRCPARAM	L0002615	0.00000001241	0.00	1.53	0.85

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** LINE VOLUME Source ID = SLINE6

SRCPARAM	L0002616	0.00000001243	0.00	1.53	0.85
SRCPARAM	L0002617	0.00000001243	0.00	1.53	0.85
SRCPARAM	L0002618	0.00000001243	0.00	1.53	0.85
SRCPARAM	L0002619	0.00000001243	0.00	1.53	0.85
SRCPARAM	L0002620	0.00000001243	0.00	1.53	0.85
SRCPARAM	L0002621	0.00000001243	0.00	1.53	0.85
SRCPARAM	L0002622	0.00000001243	0.00	1.53	0.85
SRCPARAM	L0002623	0.00000001243	0.00	1.53	0.85
SRCPARAM	L0002624	0.00000001243	0.00	1.53	0.85
SRCPARAM	L0002625	0.00000001243	0.00	1.53	0.85
SRCPARAM	L0002626	0.00000001243	0.00	1.53	0.85
SRCPARAM	L0002627	0.00000001243	0.00	1.53	0.85
SRCPARAM	L0002628	0.00000001243	0.00	1.53	0.85
SRCPARAM	L0002629	0.00000001243	0.00	1.53	0.85
SRCPARAM	L0002630	0.00000001243	0.00	1.53	0.85
SRCPARAM	L0002631	0.00000001243	0.00	1.53	0.85
SRCPARAM	L0002632	0.00000001243	0.00	1.53	0.85
SRCPARAM	L0002633	0.00000001243	0.00	1.53	0.85
SRCPARAM	L0002634	0.00000001243	0.00	1.53	0.85
SRCPARAM	L0002635	0.00000001243	0.00	1.53	0.85
SRCPARAM	L0002636	0.00000001243	0.00	1.53	0.85
SRCPARAM	L0002637	0.00000001243	0.00	1.53	0.85
SRCPARAM	L0002638	0.00000001243	0.00	1.53	0.85
SRCPARAM	L0002639	0.00000001243	0.00	1.53	0.85
SRCPARAM	L0002640	0.00000001243	0.00	1.53	0.85
SRCPARAM	L0002641	0.00000001243	0.00	1.53	0.85
SRCPARAM	L0002642	0.00000001243	0.00	1.53	0.85
SRCPARAM	L0002643	0.00000001243	0.00	1.53	0.85
SRCPARAM	L0002644	0.00000001243	0.00	1.53	0.85
SRCPARAM	L0002645	0.00000001243	0.00	1.53	0.85
SRCPARAM	L0002646	0.00000001243	0.00	1.53	0.85
SRCPARAM	L0002647	0.00000001243	0.00	1.53	0.85
SRCPARAM	L0002648	0.00000001243	0.00	1.53	0.85
SRCPARAM	L0002649	0.00000001243	0.00	1.53	0.85
SRCPARAM	L0002650	0.00000001243	0.00	1.53	0.85
SRCPARAM	L0002651	0.00000001243	0.00	1.53	0.85
SRCPARAM	L0002652	0.00000001243	0.00	1.53	0.85

** -----

** LINE VOLUME Source ID = SLINE7

SRCPARAM	L0002653	0.00000001244	0.00	1.53	0.85
SRCPARAM	L0002654	0.00000001244	0.00	1.53	0.85
SRCPARAM	L0002655	0.00000001244	0.00	1.53	0.85
SRCPARAM	L0002656	0.00000001244	0.00	1.53	0.85

BUILDLLEN	STCK4	199.35	209.63	213.75	211.76	203.33	188.72
BUILDLLEN	STCK4	202.46	211.62	214.35	210.68	201.08	185.37
BUILDLLEN	STCK4	164.25	138.47	108.47	134.62	161.13	183.02
BUILDLLEN	STCK4	199.35	209.63	213.75	211.76	203.33	188.72
XBADJ	STCK1	-61.02	-75.09	-86.87	-96.02	-102.25	-105.37
XBADJ	STCK1	-105.29	-102.01	-95.63	-116.76	-136.70	-152.49
XBADJ	STCK1	-163.64	-169.83	-170.85	-166.68	-157.45	-143.43
XBADJ	STCK1	-141.44	-136.53	-127.48	-114.66	-98.83	-80.00
XBADJ	STCK1	-58.97	-36.46	-12.84	-17.86	-24.43	-30.53
XBADJ	STCK1	-35.71	-39.80	-42.90	-45.08	-45.88	-45.29
XBADJ	STCK2	-91.75	-104.25	-113.59	-119.47	-121.72	-120.28
XBADJ	STCK2	-115.18	-106.58	-94.74	-110.44	-125.14	-136.04
XBADJ	STCK2	-142.80	-145.23	-143.25	-136.91	-126.41	-112.07
XBADJ	STCK2	-110.71	-107.37	-100.77	-91.21	-79.36	-65.09
XBADJ	STCK2	-49.08	-31.89	-13.73	-24.18	-35.99	-46.98
XBADJ	STCK2	-56.55	-64.40	-70.51	-74.85	-76.92	-76.65
XBADJ	STCK3	-122.31	-133.53	-140.69	-143.58	-142.10	-136.31
XBADJ	STCK3	-126.38	-112.61	-95.41	-105.73	-115.20	-121.16
XBADJ	STCK3	-123.45	-121.98	-116.81	-108.09	-96.08	-81.16
XBADJ	STCK3	-80.16	-78.09	-73.66	-67.10	-58.97	-49.06
XBADJ	STCK3	-37.88	-25.86	-13.06	-28.89	-45.93	-61.86
XBADJ	STCK3	-75.91	-87.65	-96.94	-103.67	-107.24	-107.56
XBADJ	STCK4	-161.55	-171.01	-175.28	-174.22	-167.86	-156.41
XBADJ	STCK4	-140.20	-119.73	-95.63	-99.03	-101.79	-101.45
XBADJ	STCK4	-98.03	-91.63	-82.45	-70.76	-56.92	-41.35
XBADJ	STCK4	-40.91	-40.61	-39.08	-36.46	-33.22	-28.96
XBADJ	STCK4	-24.05	-18.73	-12.84	-35.59	-59.34	-81.57
XBADJ	STCK4	-101.33	-118.00	-131.31	-141.00	-146.41	-147.37
YBADJ	STCK1	49.45	56.14	60.98	63.97	65.01	63.97
YBADJ	STCK1	60.80	55.78	49.07	40.21	30.72	20.30
YBADJ	STCK1	9.32	-1.71	-12.68	-23.16	-32.78	-41.40
YBADJ	STCK1	-49.45	-56.14	-60.98	-63.97	-65.01	-63.97
YBADJ	STCK1	-60.80	-55.78	-49.07	-40.21	-30.72	-20.30
YBADJ	STCK1	-9.32	1.71	12.68	23.16	32.78	41.40
YBADJ	STCK2	43.13	44.57	44.53	43.13	40.42	36.37
YBADJ	STCK2	31.03	24.75	17.71	9.48	1.56	-6.41
YBADJ	STCK2	-14.13	-21.18	-27.59	-33.05	-37.34	-40.51
YBADJ	STCK2	-43.13	-44.57	-44.53	-43.13	-40.42	-36.37
YBADJ	STCK2	-31.03	-24.75	-17.71	-9.48	-1.56	6.41
YBADJ	STCK2	14.13	21.18	27.59	33.05	37.34	40.51
YBADJ	STCK3	38.42	34.63	29.65	23.77	17.17	9.94
YBADJ	STCK3	2.21	-5.58	-13.20	-21.08	-27.72	-33.51
YBADJ	STCK3	-38.24	-41.56	-43.63	-44.25	-43.37	-41.17
YBADJ	STCK3	-38.42	-34.63	-29.65	-23.77	-17.17	-9.94

YBADJ	STCK3	-2.21	5.58	13.20	21.08	27.72	33.51
YBADJ	STCK3	38.24	41.56	43.63	44.25	43.37	41.17
YBADJ	STCK4	31.72	21.22	9.94	-1.65	-13.19	-24.43
YBADJ	STCK4	-35.12	-44.75	-53.01	-60.32	-65.20	-68.10
YBADJ	STCK4	-68.88	-67.32	-63.72	-58.07	-50.50	-41.39
YBADJ	STCK4	-31.72	-21.22	-9.94	1.65	13.19	24.43
YBADJ	STCK4	35.12	44.75	53.01	60.32	65.20	68.10
YBADJ	STCK4	68.88	67.32	63.72	58.07	50.50	41.39

```

SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
  INCLUDED "Shinohara HRA - 2nd 14 yrs.rou"
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
  SURFFILE C:\Users\cateh\OneDrive\Desktop\HRA\722904.SFC
  PROFFILE C:\Users\cateh\OneDrive\Desktop\HRA\722904.PFL
  SURFDATA 3178 2009
  UAIRDATA 3190 2009
  PROFBASE 157.0 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
** Auto-Generated Plotfiles
  PLOTFILE PERIOD ALL "SHINOHARA HRA - 2ND 14 YRS.AD\PE00GALL.PLT" 31
  SUMMFILE "Shinohara HRA - 2nd 14 yrs.sum"
OU FINISHED

```

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

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

A Total of 0 Fatal Error Message(s)
A Total of 5 Warning Message(s)
A Total of 0 Informational Message(s)

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

***** WARNING MESSAGES *****
SO W320 1041 PPARAM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 1042 PPARAM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 1043 PPARAM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 1044 PPARAM: Input Parameter May Be Out-of-Range for Parameter VS
RE W213 182 RECART: ELEV Input Inconsistent With Option: Input Ignored UCART1

*** SETUP Finishes Successfully ***

**Output Options Selected:

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

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

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 157.00 ; 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 = 4.5 MB of RAM.

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

**Detailed Error/Message File: Shinohara HRA - 2nd 14 yrs.err
**File for Summary of Results: Shinohara HRA - 2nd 14 yrs.sum

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
 *** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1st 14 years ***

08/04/21
 22:05:19
 PAGE 2

*** MODELOPTs: NonDEFAULT CONC FLAT and ELEV RURAL

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BLDG EXISTS	URBAN SOURCE	CAP/ HOR	EMIS RATE SCALAR VARY BY
STCK1	0	0.51100E-05	497086.2	3606629.3	54.4	3.66	366.00	51.90	0.10	YES	NO	NO	
STCK2	0	0.51100E-05	497085.3	3606660.7	59.4	3.66	366.00	51.90	0.10	YES	NO	NO	
STCK3	0	0.51100E-05	497085.9	3606691.6	62.6	3.66	366.00	551.90	0.10	YES	NO	NO	
STCK4	0	0.51100E-05	497086.2	3606731.4	64.2	3.66	366.00	51.90	0.10	YES	NO	NO	

L0002233	0	0.29550E-07	497113.3	3606685.6	58.0	0.00	1.53	0.85	NO
L0002234	0	0.29550E-07	497113.3	3606688.9	58.3	0.00	1.53	0.85	NO

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
 *** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1st 14 years ***

08/04/21
 22:05:19
 PAGE 4

*** MODELOPTs: NonDEFAULT CONC FLAT and ELEV RURAL

*** 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	EMISSION RATE SCALAR VARY BY
L0002235	0	0.29550E-07	497113.3	3606692.2	58.7	0.00	1.53	0.85	NO	
L0002236	0	0.29550E-07	497113.3	3606695.5	59.1	0.00	1.53	0.85	NO	
L0002237	0	0.29550E-07	497113.3	3606698.8	59.5	0.00	1.53	0.85	NO	
L0002238	0	0.29550E-07	497113.3	3606702.0	59.9	0.00	1.53	0.85	NO	
L0002239	0	0.29550E-07	497113.3	3606705.3	60.3	0.00	1.53	0.85	NO	
L0002240	0	0.29550E-07	497113.3	3606708.6	60.7	0.00	1.53	0.85	NO	
L0002241	0	0.29550E-07	497113.3	3606711.9	61.1	0.00	1.53	0.85	NO	
L0002242	0	0.29550E-07	497113.3	3606715.2	61.5	0.00	1.53	0.85	NO	
L0002243	0	0.29550E-07	497113.3	3606718.4	61.9	0.00	1.53	0.85	NO	
L0002244	0	0.29550E-07	497113.3	3606721.7	62.3	0.00	1.53	0.85	NO	
L0002245	0	0.29550E-07	497113.3	3606725.0	62.7	0.00	1.53	0.85	NO	
L0002246	0	0.29550E-07	497113.3	3606728.3	63.1	0.00	1.53	0.85	NO	
L0002247	0	0.29550E-07	497113.3	3606731.6	63.6	0.00	1.53	0.85	NO	
L0002248	0	0.29550E-07	497113.3	3606734.8	64.0	0.00	1.53	0.85	NO	
L0002249	0	0.29550E-07	497113.3	3606738.1	64.4	0.00	1.53	0.85	NO	
L0002250	0	0.29550E-07	497113.3	3606741.4	64.8	0.00	1.53	0.85	NO	
L0002251	0	0.29550E-07	497113.3	3606744.7	65.2	0.00	1.53	0.85	NO	
L0002252	0	0.29550E-07	497113.3	3606748.0	66.0	0.00	1.53	0.85	NO	
L0002253	0	0.29550E-07	497113.3	3606751.2	66.8	0.00	1.53	0.85	NO	
L0002254	0	0.29550E-07	497113.3	3606754.5	67.6	0.00	1.53	0.85	NO	
L0002255	0	0.29550E-07	497113.3	3606757.8	68.4	0.00	1.53	0.85	NO	
L0002256	0	0.29550E-07	497113.3	3606761.1	69.2	0.00	1.53	0.85	NO	
L0002257	0	0.29550E-07	497113.3	3606764.4	70.0	0.00	1.53	0.85	NO	
L0002258	0	0.29550E-07	497113.3	3606767.6	70.8	0.00	1.53	0.85	NO	
L0002259	0	0.29550E-07	497113.3	3606770.9	71.6	0.00	1.53	0.85	NO	
L0002260	0	0.29550E-07	497113.3	3606774.2	72.4	0.00	1.53	0.85	NO	
L0002261	0	0.29550E-07	497113.3	3606777.5	72.9	0.00	1.53	0.85	NO	
L0002262	0	0.24680E-07	497127.2	3606561.3	46.9	0.00	1.53	0.85	NO	
L0002263	0	0.24680E-07	497130.0	3606560.3	47.1	0.00	1.53	0.85	NO	
L0002264	0	0.24680E-07	497133.2	3606560.2	47.5	0.00	1.53	0.85	NO	
L0002265	0	0.24680E-07	497136.5	3606560.2	47.8	0.00	1.53	0.85	NO	
L0002266	0	0.24680E-07	497139.8	3606560.2	48.2	0.00	1.53	0.85	NO	
L0002267	0	0.24680E-07	497143.1	3606560.2	48.5	0.00	1.53	0.85	NO	
L0002268	0	0.24680E-07	497146.4	3606560.2	48.8	0.00	1.53	0.85	NO	
L0002269	0	0.24680E-07	497149.6	3606560.1	48.7	0.00	1.53	0.85	NO	
L0002270	0	0.24680E-07	497152.9	3606560.1	48.6	0.00	1.53	0.85	NO	
L0002271	0	0.24680E-07	497156.2	3606560.1	48.5	0.00	1.53	0.85	NO	
L0002272	0	0.24680E-07	497159.5	3606560.1	48.4	0.00	1.53	0.85	NO	

L0002273	0	0.24680E-07	497162.8	3606560.1	48.3	0.00	1.53	0.85	NO
L0002274	0	0.24680E-07	497166.0	3606560.0	48.1	0.00	1.53	0.85	NO

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
 *** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1st 14 years ***

08/04/21
 22:05:19
 PAGE 5

*** MODELOPTs: NonDEFAULT CONC FLAT and ELEV RURAL

*** 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	EMISSION RATE SCALAR VARY BY
L0002275	0	0.24680E-07	497169.3	3606560.0	48.0	0.00	1.53	0.85	NO	
L0002276	0	0.24680E-07	497172.6	3606560.0	48.0	0.00	1.53	0.85	NO	
L0002277	0	0.24680E-07	497175.9	3606560.0	48.0	0.00	1.53	0.85	NO	
L0002278	0	0.24680E-07	497179.2	3606560.0	48.1	0.00	1.53	0.85	NO	
L0002279	0	0.24680E-07	497182.4	3606559.9	48.1	0.00	1.53	0.85	NO	
L0002280	0	0.24680E-07	497185.7	3606559.9	48.2	0.00	1.53	0.85	NO	
L0002281	0	0.24680E-07	497189.0	3606559.9	48.2	0.00	1.53	0.85	NO	
L0002282	0	0.24680E-07	497192.3	3606559.9	48.2	0.00	1.53	0.85	NO	
L0002283	0	0.24680E-07	497195.6	3606559.9	48.3	0.00	1.53	0.85	NO	
L0002284	0	0.24680E-07	497198.8	3606559.9	48.3	0.00	1.53	0.85	NO	
L0002285	0	0.24680E-07	497202.1	3606559.8	48.4	0.00	1.53	0.85	NO	
L0002286	0	0.24680E-07	497205.4	3606559.8	48.4	0.00	1.53	0.85	NO	
L0002287	0	0.24680E-07	497208.7	3606559.8	48.4	0.00	1.53	0.85	NO	
L0002288	0	0.24680E-07	497212.0	3606559.8	48.4	0.00	1.53	0.85	NO	
L0002289	0	0.24680E-07	497215.2	3606559.8	48.4	0.00	1.53	0.85	NO	
L0002290	0	0.24680E-07	497218.5	3606559.7	48.4	0.00	1.53	0.85	NO	
L0002291	0	0.24680E-07	497221.8	3606559.7	48.5	0.00	1.53	0.85	NO	
L0002292	0	0.24680E-07	497225.1	3606559.7	48.5	0.00	1.53	0.85	NO	
L0002293	0	0.24680E-07	497228.4	3606559.7	48.5	0.00	1.53	0.85	NO	
L0002294	0	0.24680E-07	497231.6	3606559.7	48.4	0.00	1.53	0.85	NO	
L0002295	0	0.24680E-07	497234.9	3606559.6	48.4	0.00	1.53	0.85	NO	
L0002296	0	0.24680E-07	497238.2	3606559.6	48.4	0.00	1.53	0.85	NO	
L0002297	0	0.24680E-07	497241.5	3606559.6	48.4	0.00	1.53	0.85	NO	
L0002298	0	0.24680E-07	497244.8	3606559.6	48.3	0.00	1.53	0.85	NO	
L0002299	0	0.24680E-07	497248.0	3606559.6	48.3	0.00	1.53	0.85	NO	
L0002300	0	0.24910E-07	497250.0	3606557.6	48.2	0.00	1.53	0.85	NO	
L0002301	0	0.24910E-07	497250.0	3606554.3	48.1	0.00	1.53	0.85	NO	
L0002302	0	0.24910E-07	497250.0	3606551.0	48.0	0.00	1.53	0.85	NO	
L0002303	0	0.24910E-07	497250.1	3606547.8	47.9	0.00	1.53	0.85	NO	
L0002304	0	0.24910E-07	497250.1	3606544.5	47.8	0.00	1.53	0.85	NO	
L0002305	0	0.24910E-07	497250.1	3606541.2	47.7	0.00	1.53	0.85	NO	
L0002306	0	0.24910E-07	497250.1	3606537.9	47.6	0.00	1.53	0.85	NO	
L0002307	0	0.24910E-07	497250.2	3606534.6	47.5	0.00	1.53	0.85	NO	
L0002308	0	0.24910E-07	497250.2	3606531.4	47.4	0.00	1.53	0.85	NO	
L0002309	0	0.24910E-07	497250.2	3606528.1	47.3	0.00	1.53	0.85	NO	
L0002310	0	0.24910E-07	497250.2	3606524.8	47.1	0.00	1.53	0.85	NO	
L0002311	0	0.24910E-07	497250.2	3606521.5	47.0	0.00	1.53	0.85	NO	
L0002312	0	0.24910E-07	497250.3	3606518.2	46.9	0.00	1.53	0.85	NO	

L0002313	0	0.24910E-07	497250.3	3606515.0	46.8	0.00	1.53	0.85	NO
L0002314	0	0.24910E-07	497250.3	3606511.7	46.6	0.00	1.53	0.85	NO

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
 *** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1st 14 years ***

08/04/21
 22:05:19
 PAGE 6

*** MODELOPTs: NonDEFAULT CONC FLAT and ELEV RURAL

*** 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	EMISSION RATE SCALAR VARY BY
L0002315	0	0.24910E-07	497250.3	3606508.4	46.5	0.00	1.53	0.85	NO	
L0002316	0	0.24910E-07	497250.4	3606505.1	46.4	0.00	1.53	0.85	NO	
L0002317	0	0.24910E-07	497250.4	3606501.8	46.3	0.00	1.53	0.85	NO	
L0002318	0	0.24910E-07	497250.4	3606498.6	46.1	0.00	1.53	0.85	NO	
L0002319	0	0.24910E-07	497250.4	3606495.3	46.0	0.00	1.53	0.85	NO	
L0002320	0	0.24910E-07	497250.5	3606492.0	45.8	0.00	1.53	0.85	NO	
L0002321	0	0.24910E-07	497250.5	3606488.7	45.7	0.00	1.53	0.85	NO	
L0002322	0	0.24910E-07	497250.5	3606485.4	45.5	0.00	1.53	0.85	NO	
L0002323	0	0.24910E-07	497250.5	3606482.2	45.4	0.00	1.53	0.85	NO	
L0002324	0	0.24910E-07	497250.5	3606478.9	45.2	0.00	1.53	0.85	NO	
L0002325	0	0.24910E-07	497250.6	3606475.6	45.1	0.00	1.53	0.85	NO	
L0002326	0	0.24910E-07	497250.6	3606472.3	44.9	0.00	1.53	0.85	NO	
L0002327	0	0.24910E-07	497250.6	3606469.0	44.8	0.00	1.53	0.85	NO	
L0002328	0	0.24910E-07	497250.6	3606465.8	44.6	0.00	1.53	0.85	NO	
L0002329	0	0.24910E-07	497250.7	3606462.5	44.4	0.00	1.53	0.85	NO	
L0002330	0	0.24910E-07	497250.7	3606459.2	44.2	0.00	1.53	0.85	NO	
L0002331	0	0.24910E-07	497250.7	3606455.9	44.1	0.00	1.53	0.85	NO	
L0002332	0	0.24910E-07	497250.7	3606452.6	43.9	0.00	1.53	0.85	NO	
L0002333	0	0.24910E-07	497250.8	3606449.4	43.7	0.00	1.53	0.85	NO	
L0002334	0	0.24910E-07	497250.8	3606446.1	43.5	0.00	1.53	0.85	NO	
L0002335	0	0.24910E-07	497250.8	3606442.8	43.4	0.00	1.53	0.85	NO	
L0002336	0	0.24910E-07	497250.8	3606439.5	43.2	0.00	1.53	0.85	NO	
L0002337	0	0.24910E-07	497250.8	3606436.2	43.0	0.00	1.53	0.85	NO	
L0002338	0	0.24910E-07	497250.9	3606433.0	42.9	0.00	1.53	0.85	NO	
L0002339	0	0.24910E-07	497250.9	3606429.7	42.8	0.00	1.53	0.85	NO	
L0002340	0	0.24910E-07	497250.9	3606426.4	42.6	0.00	1.53	0.85	NO	
L0002341	0	0.24910E-07	497250.9	3606423.1	42.5	0.00	1.53	0.85	NO	
L0002342	0	0.24910E-07	497251.0	3606419.8	42.3	0.00	1.53	0.85	NO	
L0002343	0	0.24910E-07	497251.0	3606416.6	42.2	0.00	1.53	0.85	NO	
L0002344	0	0.24910E-07	497251.0	3606413.3	42.1	0.00	1.53	0.85	NO	
L0002345	0	0.24910E-07	497251.0	3606410.0	41.9	0.00	1.53	0.85	NO	
L0002346	0	0.24910E-07	497251.1	3606406.7	41.8	0.00	1.53	0.85	NO	
L0002347	0	0.24910E-07	497251.1	3606403.4	41.8	0.00	1.53	0.85	NO	
L0002348	0	0.24910E-07	497251.1	3606400.2	41.8	0.00	1.53	0.85	NO	
L0002349	0	0.24910E-07	497251.1	3606396.9	41.9	0.00	1.53	0.85	NO	
L0002350	0	0.24910E-07	497251.1	3606393.6	41.9	0.00	1.53	0.85	NO	
L0002351	0	0.24910E-07	497251.2	3606390.3	41.9	0.00	1.53	0.85	NO	
L0002352	0	0.24910E-07	497251.2	3606387.0	42.0	0.00	1.53	0.85	NO	

L0002353	0	0.24830E-07	497248.9	3606383.9	42.0	0.00	1.53	0.85	NO
L0002354	0	0.24830E-07	497245.6	3606383.9	42.0	0.00	1.53	0.85	NO

L0002393	0	0.24830E-07	497117.7	3606385.3	41.3	0.00	1.53	0.85	NO
L0002394	0	0.24830E-07	497114.4	3606385.4	41.4	0.00	1.53	0.85	NO

L0002433	0	0.24830E-07	496986.5	3606386.8	40.7	0.00	1.53	0.85	NO
L0002434	0	0.24830E-07	496983.2	3606386.8	40.6	0.00	1.53	0.85	NO

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
 *** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1st 14 years ***

08/04/21
 22:05:19
 PAGE 9

*** MODELOPTs: NonDEFAULT CONC FLAT and ELEV RURAL

*** 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	EMISSION RATE SCALAR VARY BY
L0002435	0	0.24830E-07	496980.0	3606386.9	40.6	0.00	1.53	0.85	NO	
L0002436	0	0.24830E-07	496976.7	3606386.9	40.6	0.00	1.53	0.85	NO	
L0002437	0	0.24830E-07	496973.4	3606386.9	40.6	0.00	1.53	0.85	NO	
L0002438	0	0.24830E-07	496970.1	3606387.0	40.5	0.00	1.53	0.85	NO	
L0002439	0	0.24830E-07	496966.8	3606387.0	40.5	0.00	1.53	0.85	NO	
L0002440	0	0.24830E-07	496963.6	3606387.0	40.5	0.00	1.53	0.85	NO	
L0002441	0	0.24830E-07	496960.3	3606387.1	40.4	0.00	1.53	0.85	NO	
L0002442	0	0.24830E-07	496957.0	3606387.1	40.4	0.00	1.53	0.85	NO	
L0002443	0	0.24830E-07	496953.7	3606387.1	40.4	0.00	1.53	0.85	NO	
L0002444	0	0.24830E-07	496950.4	3606387.2	40.4	0.00	1.53	0.85	NO	
L0002445	0	0.24830E-07	496947.2	3606387.2	40.4	0.00	1.53	0.85	NO	
L0002446	0	0.24830E-07	496943.9	3606387.3	40.3	0.00	1.53	0.85	NO	
L0002447	0	0.24830E-07	496940.6	3606387.3	40.3	0.00	1.53	0.85	NO	
L0002448	0	0.24830E-07	496937.3	3606387.3	40.3	0.00	1.53	0.85	NO	
L0002449	0	0.24830E-07	496934.0	3606387.4	40.4	0.00	1.53	0.85	NO	
L0002450	0	0.24830E-07	496930.8	3606387.4	40.6	0.00	1.53	0.85	NO	
L0002451	0	0.24830E-07	496927.5	3606387.4	40.7	0.00	1.53	0.85	NO	
L0002452	0	0.24830E-07	496924.2	3606387.5	40.8	0.00	1.53	0.85	NO	
L0002453	0	0.24830E-07	496920.9	3606387.5	41.0	0.00	1.53	0.85	NO	
L0002454	0	0.24830E-07	496917.6	3606387.5	41.1	0.00	1.53	0.85	NO	
L0002455	0	0.24830E-07	496914.4	3606387.6	41.3	0.00	1.53	0.85	NO	
L0002456	0	0.24830E-07	496911.1	3606387.6	41.4	0.00	1.53	0.85	NO	
L0002457	0	0.24830E-07	496907.8	3606387.7	41.5	0.00	1.53	0.85	NO	
L0002458	0	0.24830E-07	496904.5	3606387.7	41.5	0.00	1.53	0.85	NO	
L0002459	0	0.24830E-07	496901.3	3606387.7	41.6	0.00	1.53	0.85	NO	
L0002460	0	0.24830E-07	496898.0	3606387.8	41.6	0.00	1.53	0.85	NO	
L0002461	0	0.24830E-07	496894.7	3606387.8	41.7	0.00	1.53	0.85	NO	
L0002462	0	0.24830E-07	496891.4	3606387.8	41.8	0.00	1.53	0.85	NO	
L0002463	0	0.24830E-07	496888.1	3606387.9	41.8	0.00	1.53	0.85	NO	
L0002464	0	0.24830E-07	496884.9	3606387.9	41.9	0.00	1.53	0.85	NO	
L0002465	0	0.24830E-07	496881.6	3606387.9	41.9	0.00	1.53	0.85	NO	
L0002466	0	0.24830E-07	496878.3	3606388.0	41.9	0.00	1.53	0.85	NO	
L0002467	0	0.24830E-07	496875.0	3606388.0	42.0	0.00	1.53	0.85	NO	
L0002468	0	0.24830E-07	496871.7	3606388.0	42.0	0.00	1.53	0.85	NO	
L0002469	0	0.24830E-07	496868.5	3606388.1	42.1	0.00	1.53	0.85	NO	
L0002470	0	0.24830E-07	496865.2	3606388.1	42.1	0.00	1.53	0.85	NO	
L0002471	0	0.24830E-07	496861.9	3606388.2	42.2	0.00	1.53	0.85	NO	
L0002472	0	0.24830E-07	496858.6	3606388.2	42.2	0.00	1.53	0.85	NO	

L0002473	0	0.24830E-07	496855.3	3606388.2	42.3	0.00	1.53	0.85	NO
L0002474	0	0.24830E-07	496852.1	3606388.3	42.3	0.00	1.53	0.85	NO

*** AERMOD - VERSION 21112 ***
*** AERMET - VERSION 14134 ***

*** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
*** Shinohara DPM Concentrations - 1st 14 years ***

08/04/21
22:05:19
PAGE 10

*** MODELOPTs: NonDEFAULT CONC FLAT and ELEV RURAL

*** 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	EMISSION RATE SCALAR VARY BY
L0002475	0	0.24830E-07	496848.8	3606388.3	42.3	0.00	1.53	0.85	NO	
L0002476	0	0.24830E-07	496845.5	3606388.3	42.4	0.00	1.53	0.85	NO	
L0002477	0	0.24830E-07	496842.2	3606388.4	42.4	0.00	1.53	0.85	NO	
L0002478	0	0.24830E-07	496838.9	3606388.4	42.5	0.00	1.53	0.85	NO	
L0002479	0	0.24830E-07	496835.7	3606388.4	42.5	0.00	1.53	0.85	NO	
L0002480	0	0.24830E-07	496832.4	3606388.5	42.6	0.00	1.53	0.85	NO	
L0002481	0	0.24830E-07	496829.1	3606388.5	42.6	0.00	1.53	0.85	NO	
L0002482	0	0.24830E-07	496825.8	3606388.6	42.6	0.00	1.53	0.85	NO	
L0002483	0	0.24830E-07	496822.5	3606388.6	42.7	0.00	1.53	0.85	NO	
L0002484	0	0.24830E-07	496819.3	3606388.6	42.7	0.00	1.53	0.85	NO	
L0002485	0	0.24830E-07	496816.0	3606388.7	42.8	0.00	1.53	0.85	NO	
L0002486	0	0.24830E-07	496812.7	3606388.7	42.8	0.00	1.53	0.85	NO	
L0002487	0	0.24830E-07	496809.4	3606388.7	42.9	0.00	1.53	0.85	NO	
L0002488	0	0.24830E-07	496806.1	3606388.8	42.9	0.00	1.53	0.85	NO	
L0002489	0	0.24830E-07	496802.9	3606388.8	42.9	0.00	1.53	0.85	NO	
L0002490	0	0.24830E-07	496799.6	3606388.8	43.0	0.00	1.53	0.85	NO	
L0002491	0	0.24830E-07	496796.3	3606388.9	43.0	0.00	1.53	0.85	NO	
L0002492	0	0.24830E-07	496793.0	3606388.9	43.0	0.00	1.53	0.85	NO	
L0002493	0	0.24830E-07	496789.7	3606389.0	43.1	0.00	1.53	0.85	NO	
L0002494	0	0.24830E-07	496786.5	3606389.0	43.1	0.00	1.53	0.85	NO	
L0002495	0	0.24830E-07	496783.2	3606389.0	43.1	0.00	1.53	0.85	NO	
L0002496	0	0.24830E-07	496779.9	3606389.1	43.1	0.00	1.53	0.85	NO	
L0002497	0	0.24830E-07	496776.6	3606389.1	43.1	0.00	1.53	0.85	NO	
L0002498	0	0.24830E-07	496773.3	3606389.1	43.0	0.00	1.53	0.85	NO	
L0002499	0	0.24830E-07	496770.1	3606389.2	42.9	0.00	1.53	0.85	NO	
L0002500	0	0.24830E-07	496766.8	3606389.2	42.8	0.00	1.53	0.85	NO	
L0002501	0	0.24830E-07	496763.5	3606389.2	42.8	0.00	1.53	0.85	NO	
L0002502	0	0.24830E-07	496760.2	3606389.3	42.7	0.00	1.53	0.85	NO	
L0002503	0	0.24830E-07	496756.9	3606389.3	42.6	0.00	1.53	0.85	NO	
L0002504	0	0.24830E-07	496753.7	3606389.3	42.6	0.00	1.53	0.85	NO	
L0002505	0	0.24830E-07	496750.4	3606389.4	42.5	0.00	1.53	0.85	NO	
L0002506	0	0.24830E-07	496747.1	3606389.4	42.4	0.00	1.53	0.85	NO	
L0002507	0	0.24830E-07	496743.8	3606389.5	42.3	0.00	1.53	0.85	NO	
L0002508	0	0.24830E-07	496740.5	3606389.5	42.3	0.00	1.53	0.85	NO	
L0002509	0	0.24830E-07	496737.3	3606389.5	42.2	0.00	1.53	0.85	NO	
L0002510	0	0.24830E-07	496734.0	3606389.6	42.1	0.00	1.53	0.85	NO	
L0002511	0	0.24830E-07	496730.7	3606389.6	42.0	0.00	1.53	0.85	NO	
L0002512	0	0.24830E-07	496727.4	3606389.6	41.9	0.00	1.53	0.85	NO	

L0002513	0	0.24830E-07	496724.1	3606389.7	41.8	0.00	1.53	0.85	NO
L0002514	0	0.24830E-07	496720.9	3606389.7	41.7	0.00	1.53	0.85	NO

*** AERMOD - VERSION 21112 ***
*** AERMET - VERSION 14134 ***

*** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
*** Shinohara DPM Concentrations - 1st 14 years ***

08/04/21
22:05:19
PAGE 11

*** MODELOPTs: NonDEFAULT CONC FLAT and ELEV RURAL

*** 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	EMISSION RATE SCALAR VARY BY
L0002515	0	0.24830E-07	496717.6	3606389.7	41.6	0.00	1.53	0.85	NO	
L0002516	0	0.24830E-07	496714.3	3606389.8	41.4	0.00	1.53	0.85	NO	
L0002517	0	0.24830E-07	496711.0	3606389.8	41.3	0.00	1.53	0.85	NO	
L0002518	0	0.24830E-07	496707.7	3606389.9	41.2	0.00	1.53	0.85	NO	
L0002519	0	0.24830E-07	496704.5	3606389.9	41.0	0.00	1.53	0.85	NO	
L0002520	0	0.24830E-07	496701.2	3606389.9	40.9	0.00	1.53	0.85	NO	
L0002521	0	0.24830E-07	496697.9	3606390.0	40.7	0.00	1.53	0.85	NO	
L0002522	0	0.24830E-07	496694.6	3606390.0	40.6	0.00	1.53	0.85	NO	
L0002523	0	0.24830E-07	496691.3	3606390.0	40.4	0.00	1.53	0.85	NO	
L0002524	0	0.24830E-07	496688.1	3606390.1	40.3	0.00	1.53	0.85	NO	
L0002525	0	0.24830E-07	496684.8	3606390.1	40.1	0.00	1.53	0.85	NO	
L0002526	0	0.24830E-07	496681.5	3606390.1	39.9	0.00	1.53	0.85	NO	
L0002527	0	0.24830E-07	496678.2	3606390.2	39.8	0.00	1.53	0.85	NO	
L0002528	0	0.24830E-07	496674.9	3606390.2	39.7	0.00	1.53	0.85	NO	
L0002529	0	0.24830E-07	496671.7	3606390.3	39.6	0.00	1.53	0.85	NO	
L0002530	0	0.24830E-07	496668.4	3606390.3	39.5	0.00	1.53	0.85	NO	
L0002531	0	0.24830E-07	496665.1	3606390.3	39.4	0.00	1.53	0.85	NO	
L0002532	0	0.24830E-07	496661.8	3606390.4	39.4	0.00	1.53	0.85	NO	
L0002533	0	0.12410E-07	496660.7	3606394.4	39.3	0.00	1.53	0.85	NO	
L0002534	0	0.12410E-07	496660.4	3606397.6	39.3	0.00	1.53	0.85	NO	
L0002535	0	0.12410E-07	496660.1	3606400.9	39.3	0.00	1.53	0.85	NO	
L0002536	0	0.12410E-07	496659.8	3606404.2	39.3	0.00	1.53	0.85	NO	
L0002537	0	0.12410E-07	496659.5	3606407.4	39.3	0.00	1.53	0.85	NO	
L0002538	0	0.12410E-07	496659.2	3606410.7	39.5	0.00	1.53	0.85	NO	
L0002539	0	0.12410E-07	496659.0	3606414.0	39.7	0.00	1.53	0.85	NO	
L0002540	0	0.12410E-07	496658.7	3606417.2	39.8	0.00	1.53	0.85	NO	
L0002541	0	0.12410E-07	496658.4	3606420.5	40.0	0.00	1.53	0.85	NO	
L0002542	0	0.12410E-07	496658.1	3606423.8	40.1	0.00	1.53	0.85	NO	
L0002543	0	0.12410E-07	496657.8	3606427.0	40.2	0.00	1.53	0.85	NO	
L0002544	0	0.12410E-07	496657.5	3606430.3	40.3	0.00	1.53	0.85	NO	
L0002545	0	0.12410E-07	496657.2	3606433.6	40.4	0.00	1.53	0.85	NO	
L0002546	0	0.12410E-07	496657.0	3606436.8	40.5	0.00	1.53	0.85	NO	
L0002547	0	0.12410E-07	496656.7	3606440.1	40.7	0.00	1.53	0.85	NO	
L0002548	0	0.12410E-07	496656.4	3606443.4	40.8	0.00	1.53	0.85	NO	
L0002549	0	0.12410E-07	496656.1	3606446.7	40.9	0.00	1.53	0.85	NO	
L0002550	0	0.12410E-07	496655.8	3606449.9	41.0	0.00	1.53	0.85	NO	
L0002551	0	0.12410E-07	496655.5	3606453.2	41.1	0.00	1.53	0.85	NO	
L0002552	0	0.12410E-07	496655.2	3606456.4	41.2	0.00	1.53	0.85	NO	

L0002553	0	0.12410E-07	496654.9	3606459.7	41.3	0.00	1.53	0.85	NO
L0002554	0	0.12410E-07	496654.6	3606463.0	41.4	0.00	1.53	0.85	NO

L0002593	0	0.12410E-07	496642.8	3606590.4	50.8	0.00	1.53	0.85	NO
L0002594	0	0.12410E-07	496642.5	3606593.6	51.2	0.00	1.53	0.85	NO

*** AERMOD - VERSION 21112 ***
*** AERMET - VERSION 14134 ***

*** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
*** Shinohara DPM Concentrations - 1st 14 years ***

08/04/21
22:05:19
PAGE 13

*** MODELOPTs: NonDEFAULT CONC FLAT and ELEV RURAL

*** 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	EMISSION RATE SCALAR VARY BY
L0002595	0	0.12410E-07	496642.2	3606596.9	51.5	0.00	1.53	0.85	NO	
L0002596	0	0.12410E-07	496641.9	3606600.2	51.9	0.00	1.53	0.85	NO	
L0002597	0	0.12410E-07	496641.5	3606603.4	52.2	0.00	1.53	0.85	NO	
L0002598	0	0.12410E-07	496641.2	3606606.7	52.6	0.00	1.53	0.85	NO	
L0002599	0	0.12410E-07	496640.9	3606609.9	52.9	0.00	1.53	0.85	NO	
L0002600	0	0.12410E-07	496640.6	3606613.2	53.2	0.00	1.53	0.85	NO	
L0002601	0	0.12410E-07	496640.3	3606616.5	53.5	0.00	1.53	0.85	NO	
L0002602	0	0.12410E-07	496640.0	3606619.7	53.8	0.00	1.53	0.85	NO	
L0002603	0	0.12410E-07	496639.7	3606623.0	54.0	0.00	1.53	0.85	NO	
L0002604	0	0.12410E-07	496639.4	3606626.3	54.3	0.00	1.53	0.85	NO	
L0002605	0	0.12410E-07	496639.1	3606629.5	54.5	0.00	1.53	0.85	NO	
L0002606	0	0.12410E-07	496638.8	3606632.8	54.7	0.00	1.53	0.85	NO	
L0002607	0	0.12410E-07	496638.5	3606636.1	54.9	0.00	1.53	0.85	NO	
L0002608	0	0.12410E-07	496638.2	3606639.3	55.1	0.00	1.53	0.85	NO	
L0002609	0	0.12410E-07	496637.9	3606642.6	55.3	0.00	1.53	0.85	NO	
L0002610	0	0.12410E-07	496637.6	3606645.9	55.5	0.00	1.53	0.85	NO	
L0002611	0	0.12410E-07	496637.3	3606649.1	55.7	0.00	1.53	0.85	NO	
L0002612	0	0.12410E-07	496637.0	3606652.4	55.9	0.00	1.53	0.85	NO	
L0002613	0	0.12410E-07	496636.7	3606655.7	56.0	0.00	1.53	0.85	NO	
L0002614	0	0.12410E-07	496636.4	3606658.9	56.1	0.00	1.53	0.85	NO	
L0002615	0	0.12410E-07	496636.1	3606662.2	56.3	0.00	1.53	0.85	NO	
L0002616	0	0.12430E-07	496655.9	3606389.7	39.2	0.00	1.53	0.85	NO	
L0002617	0	0.12430E-07	496652.6	3606389.6	39.2	0.00	1.53	0.85	NO	
L0002618	0	0.12430E-07	496649.3	3606389.5	39.2	0.00	1.53	0.85	NO	
L0002619	0	0.12430E-07	496646.1	3606389.4	39.5	0.00	1.53	0.85	NO	
L0002620	0	0.12430E-07	496642.8	3606389.3	39.8	0.00	1.53	0.85	NO	
L0002621	0	0.12430E-07	496639.5	3606389.1	40.1	0.00	1.53	0.85	NO	
L0002622	0	0.12430E-07	496636.2	3606389.0	40.5	0.00	1.53	0.85	NO	
L0002623	0	0.12430E-07	496633.0	3606388.9	40.8	0.00	1.53	0.85	NO	
L0002624	0	0.12430E-07	496629.7	3606388.8	41.0	0.00	1.53	0.85	NO	
L0002625	0	0.12430E-07	496626.4	3606388.7	41.3	0.00	1.53	0.85	NO	
L0002626	0	0.12430E-07	496623.1	3606388.5	41.5	0.00	1.53	0.85	NO	
L0002627	0	0.12430E-07	496619.8	3606388.4	41.7	0.00	1.53	0.85	NO	
L0002628	0	0.12430E-07	496616.6	3606388.3	41.8	0.00	1.53	0.85	NO	
L0002629	0	0.12430E-07	496613.3	3606388.2	41.9	0.00	1.53	0.85	NO	
L0002630	0	0.12430E-07	496610.0	3606388.1	42.0	0.00	1.53	0.85	NO	
L0002631	0	0.12430E-07	496606.7	3606387.9	42.1	0.00	1.53	0.85	NO	
L0002632	0	0.12430E-07	496603.5	3606387.8	42.2	0.00	1.53	0.85	NO	

L0002633	0	0.12430E-07	496600.2	3606387.7	42.3	0.00	1.53	0.85	NO
L0002634	0	0.12430E-07	496596.9	3606387.6	42.3	0.00	1.53	0.85	NO

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
 *** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1st 14 years ***

08/04/21
 22:05:19
 PAGE 14

*** MODELOPTs: NonDEFAULT CONC FLAT and ELEV RURAL

*** 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	EMISSION RATE SCALAR VARY BY
L0002635	0	0.12430E-07	496593.6	3606387.5	42.3	0.00	1.53	0.85	NO	
L0002636	0	0.12430E-07	496590.3	3606387.4	42.2	0.00	1.53	0.85	NO	
L0002637	0	0.12430E-07	496587.1	3606387.2	42.2	0.00	1.53	0.85	NO	
L0002638	0	0.12430E-07	496583.8	3606387.1	42.1	0.00	1.53	0.85	NO	
L0002639	0	0.12430E-07	496580.5	3606387.0	42.1	0.00	1.53	0.85	NO	
L0002640	0	0.12430E-07	496577.2	3606386.9	42.0	0.00	1.53	0.85	NO	
L0002641	0	0.12430E-07	496574.0	3606386.8	42.0	0.00	1.53	0.85	NO	
L0002642	0	0.12430E-07	496570.7	3606386.6	41.8	0.00	1.53	0.85	NO	
L0002643	0	0.12430E-07	496567.4	3606386.5	41.4	0.00	1.53	0.85	NO	
L0002644	0	0.12430E-07	496564.1	3606386.4	41.0	0.00	1.53	0.85	NO	
L0002645	0	0.12430E-07	496560.8	3606386.3	40.7	0.00	1.53	0.85	NO	
L0002646	0	0.12430E-07	496557.6	3606386.2	40.3	0.00	1.53	0.85	NO	
L0002647	0	0.12430E-07	496554.3	3606386.1	39.9	0.00	1.53	0.85	NO	
L0002648	0	0.12430E-07	496551.0	3606385.9	39.6	0.00	1.53	0.85	NO	
L0002649	0	0.12430E-07	496547.7	3606385.8	39.3	0.00	1.53	0.85	NO	
L0002650	0	0.12430E-07	496544.5	3606385.7	39.1	0.00	1.53	0.85	NO	
L0002651	0	0.12430E-07	496541.2	3606385.6	39.3	0.00	1.53	0.85	NO	
L0002652	0	0.12430E-07	496537.9	3606385.5	39.4	0.00	1.53	0.85	NO	
L0002653	0	0.12440E-07	496537.3	3606381.2	39.3	0.00	1.53	0.85	NO	
L0002654	0	0.12440E-07	496537.7	3606377.9	39.2	0.00	1.53	0.85	NO	
L0002655	0	0.12440E-07	496538.1	3606374.7	39.2	0.00	1.53	0.85	NO	
L0002656	0	0.12440E-07	496538.5	3606371.4	39.1	0.00	1.53	0.85	NO	
L0002657	0	0.12440E-07	496538.9	3606368.2	39.0	0.00	1.53	0.85	NO	
L0002658	0	0.12440E-07	496539.3	3606364.9	38.9	0.00	1.53	0.85	NO	
L0002659	0	0.12440E-07	496539.7	3606361.6	38.8	0.00	1.53	0.85	NO	
L0002660	0	0.12440E-07	496540.1	3606358.4	38.8	0.00	1.53	0.85	NO	
L0002661	0	0.12440E-07	496540.5	3606355.1	38.7	0.00	1.53	0.85	NO	
L0002662	0	0.12440E-07	496540.9	3606351.9	38.6	0.00	1.53	0.85	NO	
L0002663	0	0.12440E-07	496541.3	3606348.6	38.5	0.00	1.53	0.85	NO	
L0002664	0	0.12440E-07	496541.7	3606345.4	38.5	0.00	1.53	0.85	NO	
L0002665	0	0.12440E-07	496542.1	3606342.1	38.5	0.00	1.53	0.85	NO	
L0002666	0	0.12440E-07	496542.5	3606338.9	38.5	0.00	1.53	0.85	NO	
L0002667	0	0.12440E-07	496542.9	3606335.6	38.5	0.00	1.53	0.85	NO	
L0002668	0	0.12440E-07	496543.3	3606332.4	38.5	0.00	1.53	0.85	NO	
L0002669	0	0.12440E-07	496543.7	3606329.1	38.5	0.00	1.53	0.85	NO	
L0002670	0	0.12440E-07	496544.1	3606325.8	38.5	0.00	1.53	0.85	NO	
L0002671	0	0.12440E-07	496544.5	3606322.6	38.6	0.00	1.53	0.85	NO	
L0002672	0	0.12440E-07	496544.9	3606319.3	38.6	0.00	1.53	0.85	NO	

L0002673	0	0.12440E-07	496545.3	3606316.1	38.6	0.00	1.53	0.85	NO
L0002674	0	0.12440E-07	496545.7	3606312.8	38.7	0.00	1.53	0.85	NO

*** AERMOD - VERSION 21112 ***
*** AERMET - VERSION 14134 ***

*** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
*** Shinohara DPM Concentrations - 1st 14 years ***

08/04/21
22:05:19
PAGE 15

*** MODELOPTs: NonDEFAULT CONC FLAT and ELEV RURAL

*** 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	EMISSION RATE SCALAR VARY BY
L0002675	0	0.12440E-07	496546.1	3606309.6	38.8	0.00	1.53	0.85	NO	
L0002676	0	0.12440E-07	496546.5	3606306.3	38.9	0.00	1.53	0.85	NO	
L0002677	0	0.12440E-07	496546.9	3606303.1	39.0	0.00	1.53	0.85	NO	
L0002678	0	0.12440E-07	496547.3	3606299.8	39.2	0.00	1.53	0.85	NO	
L0002679	0	0.12440E-07	496547.7	3606296.5	39.3	0.00	1.53	0.85	NO	
L0002680	0	0.12440E-07	496548.1	3606293.3	39.4	0.00	1.53	0.85	NO	
L0002681	0	0.12440E-07	496548.5	3606290.0	39.5	0.00	1.53	0.85	NO	
L0002682	0	0.12440E-07	496548.9	3606286.8	39.6	0.00	1.53	0.85	NO	
L0002683	0	0.12440E-07	496549.3	3606283.5	39.8	0.00	1.53	0.85	NO	
L0002684	0	0.12440E-07	496549.7	3606280.3	39.9	0.00	1.53	0.85	NO	
L0002685	0	0.12440E-07	496550.1	3606277.0	40.0	0.00	1.53	0.85	NO	
L0002686	0	0.12440E-07	496550.5	3606273.8	40.1	0.00	1.53	0.85	NO	
L0002687	0	0.12440E-07	496550.9	3606270.5	40.2	0.00	1.53	0.85	NO	
L0002688	0	0.12440E-07	496551.3	3606267.2	40.3	0.00	1.53	0.85	NO	
L0002689	0	0.12440E-07	496551.7	3606264.0	40.4	0.00	1.53	0.85	NO	
L0002690	0	0.12440E-07	496552.1	3606260.7	40.5	0.00	1.53	0.85	NO	
L0002691	0	0.12440E-07	496552.5	3606257.5	40.6	0.00	1.53	0.85	NO	
L0002692	0	0.12440E-07	496552.9	3606254.2	40.6	0.00	1.53	0.85	NO	
L0002693	0	0.12440E-07	496553.3	3606251.0	40.7	0.00	1.53	0.85	NO	
L0002694	0	0.12440E-07	496553.7	3606247.7	40.6	0.00	1.53	0.85	NO	
L0002695	0	0.12440E-07	496554.1	3606244.5	40.5	0.00	1.53	0.85	NO	
L0002696	0	0.12440E-07	496554.5	3606241.2	40.4	0.00	1.53	0.85	NO	
L0002697	0	0.12440E-07	496554.9	3606237.9	40.3	0.00	1.53	0.85	NO	
L0002698	0	0.12440E-07	496555.3	3606234.7	40.3	0.00	1.53	0.85	NO	
L0002699	0	0.12440E-07	496555.7	3606231.4	40.2	0.00	1.53	0.85	NO	
L0002700	0	0.12440E-07	496556.1	3606228.2	40.1	0.00	1.53	0.85	NO	
L0002701	0	0.12440E-07	496556.5	3606224.9	40.0	0.00	1.53	0.85	NO	
L0002702	0	0.12440E-07	496556.9	3606221.7	40.0	0.00	1.53	0.85	NO	
L0002703	0	0.12440E-07	496557.3	3606218.4	39.9	0.00	1.53	0.85	NO	
L0002704	0	0.12440E-07	496557.7	3606215.2	39.8	0.00	1.53	0.85	NO	
L0002705	0	0.12440E-07	496558.1	3606211.9	39.8	0.00	1.53	0.85	NO	
L0002706	0	0.12440E-07	496558.5	3606208.6	39.7	0.00	1.53	0.85	NO	
L0002707	0	0.12440E-07	496558.9	3606205.4	39.6	0.00	1.53	0.85	NO	
L0002708	0	0.12440E-07	496559.3	3606202.1	39.5	0.00	1.53	0.85	NO	
L0002709	0	0.12440E-07	496559.7	3606198.9	39.5	0.00	1.53	0.85	NO	
L0002710	0	0.12440E-07	496560.1	3606195.6	39.4	0.00	1.53	0.85	NO	
L0002711	0	0.12440E-07	496560.5	3606192.4	39.4	0.00	1.53	0.85	NO	
L0002712	0	0.12440E-07	496560.9	3606189.1	39.3	0.00	1.53	0.85	NO	

L0002713	0	0.12440E-07	496561.3	3606185.9	39.3	0.00	1.53	0.85	NO
L0002714	0	0.12440E-07	496561.7	3606182.6	39.2	0.00	1.53	0.85	NO

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
 *** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1st 14 years ***

08/04/21
 22:05:19
 PAGE 16

*** MODELOPTs: NonDEFAULT CONC FLAT and ELEV RURAL

*** 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	EMISSION RATE SCALAR VARY BY
L0002715	0	0.12440E-07	496562.1	3606179.3	39.2	0.00	1.53	0.85	NO	
L0002716	0	0.12440E-07	496562.5	3606176.1	39.1	0.00	1.53	0.85	NO	
L0002717	0	0.12440E-07	496562.9	3606172.8	39.1	0.00	1.53	0.85	NO	
L0002718	0	0.12440E-07	496563.3	3606169.6	39.0	0.00	1.53	0.85	NO	
L0002719	0	0.12440E-07	496563.7	3606166.3	39.0	0.00	1.53	0.85	NO	
L0002720	0	0.12440E-07	496564.1	3606163.1	39.0	0.00	1.53	0.85	NO	
L0002721	0	0.12440E-07	496564.5	3606159.8	39.0	0.00	1.53	0.85	NO	
L0002722	0	0.12440E-07	496564.9	3606156.6	39.0	0.00	1.53	0.85	NO	
L0002723	0	0.12440E-07	496565.3	3606153.3	39.0	0.00	1.53	0.85	NO	
L0002724	0	0.12440E-07	496565.7	3606150.0	39.0	0.00	1.53	0.85	NO	
L0002725	0	0.12440E-07	496566.1	3606146.8	39.0	0.00	1.53	0.85	NO	
L0002726	0	0.12440E-07	496566.5	3606143.5	39.0	0.00	1.53	0.85	NO	
L0002727	0	0.12440E-07	496566.9	3606140.3	39.0	0.00	1.53	0.85	NO	

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
*** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1st 14 years ***

08/04/21
22:05:19
PAGE 17

*** MODELOPTs: NonDEFAULT CONC FLAT and ELEV RURAL

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs															
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ALL	L0002195	,	L0002196	,	L0002197	,	L0002198	,	L0002199	,	L0002200	,	L0002201	,	L0002202	,
	L0002203	,	L0002204	,	L0002205	,	L0002206	,	L0002207	,	L0002208	,	L0002209	,	L0002210	,
	L0002211	,	L0002212	,	L0002213	,	L0002214	,	L0002215	,	L0002216	,	L0002217	,	L0002218	,
	L0002219	,	L0002220	,	L0002221	,	L0002222	,	L0002223	,	L0002224	,	L0002225	,	L0002226	,
	L0002227	,	L0002228	,	L0002229	,	L0002230	,	L0002231	,	L0002232	,	L0002233	,	L0002234	,
	L0002235	,	L0002236	,	L0002237	,	L0002238	,	L0002239	,	L0002240	,	L0002241	,	L0002242	,
	L0002243	,	L0002244	,	L0002245	,	L0002246	,	L0002247	,	L0002248	,	L0002249	,	L0002250	,
	L0002251	,	L0002252	,	L0002253	,	L0002254	,	L0002255	,	L0002256	,	L0002257	,	L0002258	,
	L0002259	,	L0002260	,	L0002261	,	L0002262	,	L0002263	,	L0002264	,	L0002265	,	L0002266	,
	L0002267	,	L0002268	,	L0002269	,	L0002270	,	L0002271	,	L0002272	,	L0002273	,	L0002274	,
	L0002275	,	L0002276	,	L0002277	,	L0002278	,	L0002279	,	L0002280	,	L0002281	,	L0002282	,
	L0002283	,	L0002284	,	L0002285	,	L0002286	,	L0002287	,	L0002288	,	L0002289	,	L0002290	,
	L0002291	,	L0002292	,	L0002293	,	L0002294	,	L0002295	,	L0002296	,	L0002297	,	L0002298	,
	L0002299	,	L0002300	,	L0002301	,	L0002302	,	L0002303	,	L0002304	,	L0002305	,	L0002306	,
	L0002307	,	L0002308	,	L0002309	,	L0002310	,	L0002311	,	L0002312	,	L0002313	,	L0002314	,
	L0002315	,	L0002316	,	L0002317	,	L0002318	,	L0002319	,	L0002320	,	L0002321	,	L0002322	,
	L0002323	,	L0002324	,	L0002325	,	L0002326	,	L0002327	,	L0002328	,	L0002329	,	L0002330	,
	L0002331	,	L0002332	,	L0002333	,	L0002334	,	L0002335	,	L0002336	,	L0002337	,	L0002338	,
	L0002339	,	L0002340	,	L0002341	,	L0002342	,	L0002343	,	L0002344	,	L0002345	,	L0002346	,
	L0002347	,	L0002348	,	L0002349	,	L0002350	,	L0002351	,	L0002352	,	L0002353	,	L0002354	,

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
*** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1st 14 years ***

08/04/21
22:05:19
PAGE 18

*** MODELOPTs: NonDEFAULT CONC FLAT and ELEV RURAL

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs														
-----	-----														
L0002355	,	L0002356	,	L0002357	,	L0002358	,	L0002359	,	L0002360	,	L0002361	,	L0002362	,
L0002363	,	L0002364	,	L0002365	,	L0002366	,	L0002367	,	L0002368	,	L0002369	,	L0002370	,
L0002371	,	L0002372	,	L0002373	,	L0002374	,	L0002375	,	L0002376	,	L0002377	,	L0002378	,
L0002379	,	L0002380	,	L0002381	,	L0002382	,	L0002383	,	L0002384	,	L0002385	,	L0002386	,
L0002387	,	L0002388	,	L0002389	,	L0002390	,	L0002391	,	L0002392	,	L0002393	,	L0002394	,
L0002395	,	L0002396	,	L0002397	,	L0002398	,	L0002399	,	L0002400	,	L0002401	,	L0002402	,
L0002403	,	L0002404	,	L0002405	,	L0002406	,	L0002407	,	L0002408	,	L0002409	,	L0002410	,
L0002411	,	L0002412	,	L0002413	,	L0002414	,	L0002415	,	L0002416	,	L0002417	,	L0002418	,
L0002419	,	L0002420	,	L0002421	,	L0002422	,	L0002423	,	L0002424	,	L0002425	,	L0002426	,
L0002427	,	L0002428	,	L0002429	,	L0002430	,	L0002431	,	L0002432	,	L0002433	,	L0002434	,
L0002435	,	L0002436	,	L0002437	,	L0002438	,	L0002439	,	L0002440	,	L0002441	,	L0002442	,
L0002443	,	L0002444	,	L0002445	,	L0002446	,	L0002447	,	L0002448	,	L0002449	,	L0002450	,
L0002451	,	L0002452	,	L0002453	,	L0002454	,	L0002455	,	L0002456	,	L0002457	,	L0002458	,
L0002459	,	L0002460	,	L0002461	,	L0002462	,	L0002463	,	L0002464	,	L0002465	,	L0002466	,
L0002467	,	L0002468	,	L0002469	,	L0002470	,	L0002471	,	L0002472	,	L0002473	,	L0002474	,
L0002475	,	L0002476	,	L0002477	,	L0002478	,	L0002479	,	L0002480	,	L0002481	,	L0002482	,
L0002483	,	L0002484	,	L0002485	,	L0002486	,	L0002487	,	L0002488	,	L0002489	,	L0002490	,
L0002491	,	L0002492	,	L0002493	,	L0002494	,	L0002495	,	L0002496	,	L0002497	,	L0002498	,
L0002499	,	L0002500	,	L0002501	,	L0002502	,	L0002503	,	L0002504	,	L0002505	,	L0002506	,
L0002507	,	L0002508	,	L0002509	,	L0002510	,	L0002511	,	L0002512	,	L0002513	,	L0002514	,

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
*** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1st 14 years ***

08/04/21
22:05:19
PAGE 19

*** MODELOPTs: NonDEFAULT CONC FLAT and ELEV RURAL

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs														
-----	-----														
L0002515	,	L0002516	,	L0002517	,	L0002518	,	L0002519	,	L0002520	,	L0002521	,	L0002522	,
L0002523	,	L0002524	,	L0002525	,	L0002526	,	L0002527	,	L0002528	,	L0002529	,	L0002530	,
L0002531	,	L0002532	,	STCK1	,	STCK2	,	STCK3	,	STCK4	,	L0002533	,	L0002534	,
L0002535	,	L0002536	,	L0002537	,	L0002538	,	L0002539	,	L0002540	,	L0002541	,	L0002542	,
L0002543	,	L0002544	,	L0002545	,	L0002546	,	L0002547	,	L0002548	,	L0002549	,	L0002550	,
L0002551	,	L0002552	,	L0002553	,	L0002554	,	L0002555	,	L0002556	,	L0002557	,	L0002558	,
L0002559	,	L0002560	,	L0002561	,	L0002562	,	L0002563	,	L0002564	,	L0002565	,	L0002566	,
L0002567	,	L0002568	,	L0002569	,	L0002570	,	L0002571	,	L0002572	,	L0002573	,	L0002574	,
L0002575	,	L0002576	,	L0002577	,	L0002578	,	L0002579	,	L0002580	,	L0002581	,	L0002582	,
L0002583	,	L0002584	,	L0002585	,	L0002586	,	L0002587	,	L0002588	,	L0002589	,	L0002590	,
L0002591	,	L0002592	,	L0002593	,	L0002594	,	L0002595	,	L0002596	,	L0002597	,	L0002598	,
L0002599	,	L0002600	,	L0002601	,	L0002602	,	L0002603	,	L0002604	,	L0002605	,	L0002606	,
L0002607	,	L0002608	,	L0002609	,	L0002610	,	L0002611	,	L0002612	,	L0002613	,	L0002614	,
L0002615	,	L0002616	,	L0002617	,	L0002618	,	L0002619	,	L0002620	,	L0002621	,	L0002622	,
L0002623	,	L0002624	,	L0002625	,	L0002626	,	L0002627	,	L0002628	,	L0002629	,	L0002630	,
L0002631	,	L0002632	,	L0002633	,	L0002634	,	L0002635	,	L0002636	,	L0002637	,	L0002638	,
L0002639	,	L0002640	,	L0002641	,	L0002642	,	L0002643	,	L0002644	,	L0002645	,	L0002646	,
L0002647	,	L0002648	,	L0002649	,	L0002650	,	L0002651	,	L0002652	,	L0002653	,	L0002654	,
L0002655	,	L0002656	,	L0002657	,	L0002658	,	L0002659	,	L0002660	,	L0002661	,	L0002662	,
L0002663	,	L0002664	,	L0002665	,	L0002666	,	L0002667	,	L0002668	,	L0002669	,	L0002670	,

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
*** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1st 14 years ***

08/04/21
22:05:19
PAGE 21

*** MODELOPTs: NonDEFAULT CONC FLAT and ELEV RURAL

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK1

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	12.2,	134.6,	202.5,	-61.0,	49.4,	2	12.2,	161.1,	211.6,	-75.1,	56.1,
3	12.2,	183.0,	214.4,	-86.9,	61.0,	4	12.2,	199.4,	210.7,	-96.0,	64.0,
5	12.2,	209.6,	201.1,	-102.2,	65.0,	6	12.2,	213.8,	185.4,	-105.4,	64.0,
7	12.2,	211.8,	164.2,	-105.3,	60.8,	8	12.2,	203.3,	138.5,	-102.0,	55.8,
9	12.2,	188.7,	108.5,	-95.6,	49.1,	10	12.2,	202.5,	134.6,	-116.8,	40.2,
11	12.2,	211.6,	161.1,	-136.7,	30.7,	12	12.2,	214.4,	183.0,	-152.5,	20.3,
13	12.2,	210.7,	199.4,	-163.6,	9.3,	14	12.2,	201.1,	209.6,	-169.8,	-1.7,
15	12.2,	185.4,	213.8,	-170.9,	-12.7,	16	12.2,	164.2,	211.8,	-166.7,	-23.2,
17	12.2,	138.5,	203.3,	-157.5,	-32.8,	18	12.2,	108.5,	188.7,	-143.4,	-41.4,
19	12.2,	134.6,	202.5,	-141.4,	-49.4,	20	12.2,	161.1,	211.6,	-136.5,	-56.1,
21	12.2,	183.0,	214.4,	-127.5,	-61.0,	22	12.2,	199.4,	210.7,	-114.7,	-64.0,
23	12.2,	209.6,	201.1,	-98.8,	-65.0,	24	12.2,	213.8,	185.4,	-80.0,	-64.0,
25	12.2,	211.8,	164.2,	-59.0,	-60.8,	26	12.2,	203.3,	138.5,	-36.5,	-55.8,
27	12.2,	188.7,	108.5,	-12.8,	-49.1,	28	12.2,	202.5,	134.6,	-17.9,	-40.2,
29	12.2,	211.6,	161.1,	-24.4,	-30.7,	30	12.2,	214.4,	183.0,	-30.5,	-20.3,
31	12.2,	210.7,	199.4,	-35.7,	-9.3,	32	12.2,	201.1,	209.6,	-39.8,	1.7,
33	12.2,	185.4,	213.8,	-42.9,	12.7,	34	12.2,	164.2,	211.8,	-45.1,	23.2,
35	12.2,	138.5,	203.3,	-45.9,	32.8,	36	12.2,	108.5,	188.7,	-45.3,	41.4,

SOURCE ID: STCK2

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	12.2,	134.6,	202.5,	-91.8,	43.1,	2	12.2,	161.1,	211.6,	-104.2,	44.6,
3	12.2,	183.0,	214.4,	-113.6,	44.5,	4	12.2,	199.4,	210.7,	-119.5,	43.1,
5	12.2,	209.6,	201.1,	-121.7,	40.4,	6	12.2,	213.8,	185.4,	-120.3,	36.4,
7	12.2,	211.8,	164.2,	-115.2,	31.0,	8	12.2,	203.3,	138.5,	-106.6,	24.8,
9	12.2,	188.7,	108.5,	-94.7,	17.7,	10	12.2,	202.5,	134.6,	-110.4,	9.5,
11	12.2,	211.6,	161.1,	-125.1,	1.6,	12	12.2,	214.4,	183.0,	-136.0,	-6.4,
13	12.2,	210.7,	199.4,	-142.8,	-14.1,	14	12.2,	201.1,	209.6,	-145.2,	-21.2,
15	12.2,	185.4,	213.8,	-143.2,	-27.6,	16	12.2,	164.2,	211.8,	-136.9,	-33.0,
17	12.2,	138.5,	203.3,	-126.4,	-37.3,	18	12.2,	108.5,	188.7,	-112.1,	-40.5,
19	12.2,	134.6,	202.5,	-110.7,	-43.1,	20	12.2,	161.1,	211.6,	-107.4,	-44.6,
21	12.2,	183.0,	214.4,	-100.8,	-44.5,	22	12.2,	199.4,	210.7,	-91.2,	-43.1,
23	12.2,	209.6,	201.1,	-79.4,	-40.4,	24	12.2,	213.8,	185.4,	-65.1,	-36.4,
25	12.2,	211.8,	164.2,	-49.1,	-31.0,	26	12.2,	203.3,	138.5,	-31.9,	-24.8,
27	12.2,	188.7,	108.5,	-13.7,	-17.7,	28	12.2,	202.5,	134.6,	-24.2,	-9.5,
29	12.2,	211.6,	161.1,	-36.0,	-1.6,	30	12.2,	214.4,	183.0,	-47.0,	6.4,
31	12.2,	210.7,	199.4,	-56.5,	14.1,	32	12.2,	201.1,	209.6,	-64.4,	21.2,
33	12.2,	185.4,	213.8,	-70.5,	27.6,	34	12.2,	164.2,	211.8,	-74.8,	33.0,
35	12.2,	138.5,	203.3,	-76.9,	37.3,	36	12.2,	108.5,	188.7,	-76.6,	40.5,

SOURCE ID: STCK3

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	12.2,	134.6,	202.5,	-122.3,	38.4,	2	12.2,	161.1,	211.6,	-133.5,	34.6,
3	12.2,	183.0,	214.4,	-140.7,	29.7,	4	12.2,	199.4,	210.7,	-143.6,	23.8,
5	12.2,	209.6,	201.1,	-142.1,	17.2,	6	12.2,	213.8,	185.4,	-136.3,	9.9,
7	12.2,	211.8,	164.2,	-126.4,	2.2,	8	12.2,	203.3,	138.5,	-112.6,	-5.6,
9	12.2,	188.7,	108.5,	-95.4,	-13.2,	10	12.2,	202.5,	134.6,	-105.7,	-21.1,
11	12.2,	211.6,	161.1,	-115.2,	-27.7,	12	12.2,	214.4,	183.0,	-121.2,	-33.5,
13	12.2,	210.7,	199.4,	-123.5,	-38.2,	14	12.2,	201.1,	209.6,	-122.0,	-41.6,
15	12.2,	185.4,	213.8,	-116.8,	-43.6,	16	12.2,	164.2,	211.8,	-108.1,	-44.2,
17	12.2,	138.5,	203.3,	-96.1,	-43.4,	18	12.2,	108.5,	188.7,	-81.2,	-41.2,
19	12.2,	134.6,	202.5,	-80.2,	-38.4,	20	12.2,	161.1,	211.6,	-78.1,	-34.6,
21	12.2,	183.0,	214.4,	-73.7,	-29.7,	22	12.2,	199.4,	210.7,	-67.1,	-23.8,
23	12.2,	209.6,	201.1,	-59.0,	-17.2,	24	12.2,	213.8,	185.4,	-49.1,	-9.9,
25	12.2,	211.8,	164.2,	-37.9,	-2.2,	26	12.2,	203.3,	138.5,	-25.9,	5.6,
27	12.2,	188.7,	108.5,	-13.1,	13.2,	28	12.2,	202.5,	134.6,	-28.9,	21.1,
29	12.2,	211.6,	161.1,	-45.9,	27.7,	30	12.2,	214.4,	183.0,	-61.9,	33.5,
31	12.2,	210.7,	199.4,	-75.9,	38.2,	32	12.2,	201.1,	209.6,	-87.6,	41.6,
33	12.2,	185.4,	213.8,	-96.9,	43.6,	34	12.2,	164.2,	211.8,	-103.7,	44.2,
35	12.2,	138.5,	203.3,	-107.2,	43.4,	36	12.2,	108.5,	188.7,	-107.6,	41.2,

SOURCE ID: STCK4

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	12.2,	134.6,	202.5,	-161.6,	31.7,	2	12.2,	161.1,	211.6,	-171.0,	21.2,
3	12.2,	183.0,	214.4,	-175.3,	9.9,	4	12.2,	199.4,	210.7,	-174.2,	-1.7,
5	12.2,	209.6,	201.1,	-167.9,	-13.2,	6	12.2,	213.8,	185.4,	-156.4,	-24.4,
7	12.2,	211.8,	164.2,	-140.2,	-35.1,	8	12.2,	203.3,	138.5,	-119.7,	-44.8,
9	12.2,	188.7,	108.5,	-95.6,	-53.0,	10	12.2,	202.5,	134.6,	-99.0,	-60.3,
11	12.2,	211.6,	161.1,	-101.8,	-65.2,	12	12.2,	214.4,	183.0,	-101.5,	-68.1,
13	12.2,	210.7,	199.4,	-98.0,	-68.9,	14	12.2,	201.1,	209.6,	-91.6,	-67.3,
15	12.2,	185.4,	213.8,	-82.5,	-63.7,	16	12.2,	164.2,	211.8,	-70.8,	-58.1,
17	12.2,	138.5,	203.3,	-56.9,	-50.5,	18	12.2,	108.5,	188.7,	-41.3,	-41.4,
19	12.2,	134.6,	202.5,	-40.9,	-31.7,	20	12.2,	161.1,	211.6,	-40.6,	-21.2,
21	12.2,	183.0,	214.4,	-39.1,	-9.9,	22	12.2,	199.4,	210.7,	-36.5,	1.7,
23	12.2,	209.6,	201.1,	-33.2,	13.2,	24	12.2,	213.8,	185.4,	-29.0,	24.4,
25	12.2,	211.8,	164.2,	-24.1,	35.1,	26	12.2,	203.3,	138.5,	-18.7,	44.8,
27	12.2,	188.7,	108.5,	-12.8,	53.0,	28	12.2,	202.5,	134.6,	-35.6,	60.3,
29	12.2,	211.6,	161.1,	-59.3,	65.2,	30	12.2,	214.4,	183.0,	-81.6,	68.1,
31	12.2,	210.7,	199.4,	-101.3,	68.9,	32	12.2,	201.1,	209.6,	-118.0,	67.3,
33	12.2,	185.4,	213.8,	-131.3,	63.7,	34	12.2,	164.2,	211.8,	-141.0,	58.1,
35	12.2,	138.5,	203.3,	-146.4,	50.5,	36	12.2,	108.5,	188.7,	-147.4,	41.4,

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
*** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1st 14 years ***

08/04/21
22:05:19
PAGE 22

*** MODELOPTs: NonDEFAULT CONC FLAT and ELEV RURAL

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

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

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

496437.3, 496496.9, 496556.5, 496616.1, 496675.8, 496735.3, 496794.9, 496854.5, 496914.1, 496973.8,
497033.3, 497092.9, 497152.5, 497212.1, 497271.8, 497331.3, 497390.9, 497450.5, 497510.1, 497569.8,
497629.3,

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

3606072.0, 3606131.2, 3606190.3, 3606249.4, 3606308.6, 3606367.7, 3606426.8, 3606486.0, 3606545.1, 3606604.2,
3606663.3, 3606722.5, 3606781.6, 3606840.7, 3606899.9, 3606959.0, 3607018.1, 3607077.2, 3607136.4, 3607195.5,
3607254.6,

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
*** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1st 14 years ***

08/04/21
22:05:19
PAGE 23

*** MODELOPTs: NonDEFAULT CONC FLAT and ELEV RURAL

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	496437.35	496496.95	496556.55	496616.15	496675.75	496735.35	496794.95	496854.55	496914.15
3607254.64	73.10	71.10	68.00	67.00	61.50	61.40	54.30	57.70	59.70
3607195.51	72.10	68.40	66.60	66.10	59.60	54.00	56.50	57.80	58.60
3607136.38	72.40	66.00	65.40	64.20	56.60	53.00	55.70	59.00	59.60
3607077.25	72.60	62.20	62.60	62.90	48.40	54.40	58.20	59.70	61.50
3607018.12	59.50	56.80	59.50	61.20	53.60	53.70	60.30	63.90	68.00
3606958.99	54.40	52.60	57.00	60.00	54.80	55.60	62.40	65.10	68.60
3606899.86	46.70	50.20	55.80	58.70	58.30	58.20	65.70	68.50	72.40
3606840.73	48.90	49.90	55.10	57.20	63.80	62.90	63.90	68.30	69.20
3606781.60	48.20	52.80	54.50	56.50	64.70	66.80	63.70	64.40	65.60
3606722.47	50.90	52.50	55.10	54.30	66.20	66.80	65.00	61.30	60.70
3606663.34	54.50	57.10	55.00	52.60	64.70	64.00	66.30	60.80	57.90
3606604.21	56.30	58.80	51.40	50.40	60.50	59.70	61.60	62.50	54.60
3606545.08	58.30	59.00	47.30	48.80	56.10	53.90	57.80	58.20	50.60
3606485.95	54.50	56.20	44.40	47.20	51.00	49.40	48.20	47.40	45.60
3606426.82	53.30	50.30	42.30	45.70	43.20	46.40	45.10	43.70	42.60
3606367.69	39.50	38.70	39.70	40.40	39.00	40.20	40.50	40.70	39.80
3606308.56	38.20	37.00	41.00	42.70	37.10	39.80	38.10	38.10	37.80
3606249.43	37.10	36.70	41.00	41.70	35.70	36.10	36.30	35.90	35.70
3606190.30	34.70	35.00	38.50	41.10	35.00	34.70	34.60	34.20	33.90
3606131.17	34.00	34.10	36.10	40.10	34.10	34.10	33.50	33.60	33.30
3606072.04	33.40	33.60	34.50	38.40	33.70	33.70	34.00	29.30	27.80

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
*** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1st 14 years ***

08/04/21
22:05:19
PAGE 25

*** MODELOPTs: NonDEFAULT CONC FLAT and ELEV RURAL

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	497510.15	497569.75	497629.35
3607254.64	102.70	107.40	104.40
3607195.51	92.20	95.00	98.50
3607136.38	95.90	97.40	100.30
3607077.25	100.10	101.10	103.90
3607018.12	98.70	102.50	103.70
3606958.99	90.30	101.40	103.10
3606899.86	79.10	92.10	93.50
3606840.73	90.10	90.90	90.20
3606781.60	74.50	72.40	71.20
3606722.47	66.70	62.80	62.50
3606663.34	65.40	56.40	57.40
3606604.21	51.20	53.90	58.40
3606545.08	44.40	45.00	46.00
3606485.95	43.10	43.10	43.30
3606426.82	42.50	42.40	42.90
3606367.69	40.60	40.90	41.30
3606308.56	39.70	39.90	40.60
3606249.43	40.20	40.00	39.90
3606190.30	29.90	29.60	29.80
3606131.17	29.10	30.90	30.60
3606072.04	29.10	30.50	30.00

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
 *** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1st 14 years ***

08/04/21
 22:05:19
 PAGE 27

*** MODELOPTs: NonDEFAULT CONC FLAT and ELEV RURAL

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	496973.75	497033.35	497092.95	497152.55	497212.15	497271.75	497331.35	497390.95	497450.55
3607254.64	129.60	130.80	130.80	130.80	130.90	130.90	130.90	129.00	129.00
3607195.51	130.10	130.10	130.10	130.80	130.90	130.90	130.90	130.90	139.00
3607136.38	82.20	80.80	80.00	78.20	129.60	130.90	130.80	130.80	129.00
3607077.25	81.70	80.20	80.90	81.10	129.00	130.80	129.60	129.00	98.10
3607018.12	81.70	81.00	81.80	78.40	98.60	129.60	129.00	98.60	98.20
3606958.99	81.90	81.00	80.90	79.10	98.60	129.00	103.80	98.60	99.00
3606899.86	81.60	81.60	77.90	77.80	98.60	129.00	104.30	102.70	125.50
3606840.73	81.60	77.40	78.20	98.50	99.20	127.90	125.50	125.50	104.30
3606781.60	81.60	78.30	78.50	98.60	104.30	125.50	125.50	104.30	104.30
3606722.47	78.50	78.50	78.50	98.70	104.30	125.50	125.50	125.50	125.50
3606663.34	78.30	78.50	78.50	98.60	102.30	104.30	125.50	125.50	125.50
3606604.21	78.50	78.50	78.50	78.50	98.70	125.50	125.50	125.50	128.20
3606545.08	78.50	78.50	78.50	98.50	101.60	104.30	125.50	125.50	128.30
3606485.95	78.00	78.50	78.50	78.50	98.50	101.60	125.50	125.50	125.50
3606426.82	62.50	41.80	42.60	44.00	43.50	43.10	101.60	125.50	125.50
3606367.69	62.50	39.90	40.40	41.10	41.40	41.60	41.20	112.20	125.50
3606308.56	37.90	38.60	38.00	38.20	39.10	39.20	38.00	39.30	39.60
3606249.43	36.30	37.50	37.90	37.90	37.60	37.40	38.10	37.60	40.00
3606190.30	35.20	36.20	37.10	37.60	36.40	37.70	38.10	38.50	40.30
3606131.17	34.40	33.10	37.70	37.80	37.90	37.90	37.90	29.70	29.50
3606072.04	46.60	46.60	46.60	46.20	45.90	45.90	45.30	45.20	28.90

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
 *** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1st 14 years ***

08/04/21
 22:05:19
 PAGE 28

*** MODELOPTs: NonDEFAULT CONC FLAT and ELEV RURAL

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	497510.15	497569.75	497629.35	X-COORD (METERS)
3607254.64	129.00	128.70	139.00	
3607195.51	139.00	139.00	139.00	
3607136.38	128.70	128.00	139.00	
3607077.25	100.10	103.70	107.80	
3607018.12	98.70	102.50	103.70	
3606958.99	104.30	101.40	103.10	
3606899.86	125.50	104.30	125.50	
3606840.73	90.60	90.90	125.50	
3606781.60	125.50	125.90	128.30	
3606722.47	125.50	128.30	139.00	
3606663.34	125.50	132.20	136.70	
3606604.21	128.30	128.30	128.30	
3606545.08	128.30	132.20	136.70	
3606485.95	128.30	128.30	128.30	
3606426.82	126.40	128.30	128.30	
3606367.69	125.50	126.40	128.20	
3606308.56	125.50	125.50	125.50	
3606249.43	40.20	40.00	39.90	
3606190.30	125.50	125.50	125.50	
3606131.17	39.40	30.90	30.60	
3606072.04	29.10	30.50	30.00	

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
*** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1st 14 years ***

08/04/21
22:05:19
PAGE 29

*** MODELOPTs: NonDEFAULT CONC FLAT and ELEV RURAL

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

(497063.6, 3606807.8,	78.2,	78.2,	0.0);	(496962.2, 3606775.4,	63.0,	81.6,	0.0);
(496960.6, 3606692.3,	61.2,	78.3,	0.0);	(496963.9, 3606567.3,	51.9,	78.3,	0.0);
(496956.1, 3606409.6,	41.7,	62.5,	0.0);	(496869.7, 3606414.9,	43.6,	62.5,	0.0);
(496768.2, 3606419.4,	45.8,	62.5,	0.0);	(496687.5, 3606578.0,	58.4,	58.4,	0.0);
(497159.2, 3606873.8,	77.5,	77.5,	0.0);	(496517.0, 3606174.8,	34.5,	42.3,	0.0);

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
*** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1st 14 years ***

08/04/21
22:05:19
PAGE 30

*** MODELOPTs: NonDEFAULT CONC FLAT and ELEV RURAL

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS) YR (METERS)		DISTANCE (METERS)
L0002693	496556.5	3606249.4	0.28
L0002694	496556.5	3606249.4	0.02

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
 *** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1st 14 years ***

08/04/21
 22:05:19
 PAGE 37

*** MODELOPTs: NonDEFAULT CONC FLAT and ELEV RURAL

*** THE SUMMARY OF MAXIMUM PERIOD (43872 HRS) RESULTS ***

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

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	1ST HIGHEST VALUE IS	0.00221 AT (497092.95, 3606663.34, 59.10, 78.50, 0.00)	GC	UCART1
	2ND HIGHEST VALUE IS	0.00195 AT (497092.95, 3606722.47, 64.10, 78.50, 0.00)	GC	UCART1
	3RD HIGHEST VALUE IS	0.00178 AT (497092.95, 3606604.21, 50.40, 78.50, 0.00)	GC	UCART1
	4TH HIGHEST VALUE IS	0.00168 AT (497152.55, 3606604.21, 53.50, 78.50, 0.00)	GC	UCART1
	5TH HIGHEST VALUE IS	0.00163 AT (497212.15, 3606545.08, 47.00, 101.60, 0.00)	GC	UCART1
	6TH HIGHEST VALUE IS	0.00154 AT (497152.55, 3606663.34, 54.30, 98.60, 0.00)	GC	UCART1
	7TH HIGHEST VALUE IS	0.00149 AT (497271.75, 3606545.08, 48.50, 104.30, 0.00)	GC	UCART1
	8TH HIGHEST VALUE IS	0.00140 AT (497152.55, 3606722.47, 57.30, 98.70, 0.00)	GC	UCART1
	9TH HIGHEST VALUE IS	0.00125 AT (497033.35, 3606663.34, 62.50, 78.50, 0.00)	GC	UCART1
	10TH HIGHEST VALUE IS	0.00120 AT (496956.09, 3606409.58, 41.66, 62.53, 0.00)	DC	

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

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Shinohara HRA - 2 year\Shinohara HRA - 2 year.i ***
*** AERMET - VERSION 14134 *** *** Shinohara DPM Concentrations - 1st 14 years ***

08/04/21
22:05:19
PAGE 38

*** MODELOPTs: NonDEFAULT CONC FLAT and ELEV RURAL

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

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

A Total of 0 Fatal Error Message(s)
A Total of 7 Warning Message(s)
A Total of 16961 Informational Message(s)

A Total of 43872 Hours Were Processed

A Total of 13845 Calm Hours Identified

A Total of 3116 Missing Hours Identified (7.10 Percent)

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

***** WARNING MESSAGES *****

SO W320	1041	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	1042	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	1043	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	1044	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
RE W213	182	RECART: ELEV Input Inconsistent With Option: Input Ignored	UCART1
MX W430	33748	METQA: Ambient Temperature Data Out-of-Range. KURDAT =	12110704
MX W430	33749	METQA: Ambient Temperature Data Out-of-Range. KURDAT =	12110705

*** AERMOD Finishes Successfully ***
